

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Dillon 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) 6164 Conditioned floor area below grade (ft²) 0 7. Windows(829.0 sqft.) Description Area a. U-Factor: Dbl, U=0.22 829.00 ft² SHGC: SHGC=0.33 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.333 ft Area Weighted Average SHGC: 0.330 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 4067.00 ft² b. Floor Over Other Space R= 0.0 2097.00 ft² c. N/A R= ft²	10. Wall Types(6936.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=19.0 5845.30 ft² b. Frame - Wood, Exterior R=13.0 647.33 ft² c. Frame - Wood, Adjacent R=13.0 443.33 ft² d. N/A 11. Ceiling Types(6164.0 sqft.) Insulation Area a. Single assembly, no ai (Unvented) R=30.0 6164.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Unvent) Deck R=30.0 4888 ft² 13. Ducts, location & insulation level R ft² a. Sup: 1st Floor, Ret: 1st Floor, AH: Gym 6 1233 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 120.0 SEER2:17.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 120.0 HSPF2:10.00 16. Hot Water Systems a. Electric Tankless Cap: 1 gallons EF: 0.920 b. Conservation features None 17. Credits CF, Pstat
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Glass/Floor Area: 0.134	Total Proposed Modified Loads: 108.32	PASS
	Total Baseline Loads: 170.27	
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. PREPARED BY:  DATE: 5-22-26 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>Matthew Dillon</u> DATE: <u>05-23-2026</u>	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: _____
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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).

PROJECT

Title: Dillon Residence

Building Type: User

Owner:

Builder Home ID:

Builder Name:

Permit Office:

Jurisdiction:

Family Type: Detached

New/Existing: New (From Plans)

Year Construct: 2026

Comment:

Bedrooms: 4

Conditioned Area: 6164

Total Stories: 2

Worst Case: No

Rotate Angle: 0

Cross Ventilation:

Whole House Fan:

Terrain: Rural

Shielding: Moderate/Rural

Address type: Street Address

Lot #: ---

Block/SubDivision: ---

PlatBook: ---

Street:

County: Columbia

City, State, Zip: , FL,

CLIMATE

✓ 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

✓ Number

Name

Area

Volume

___ 1

Block1

6164

68769 cu ft

SPACES

✓ Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

___ 1

1st Floor

2289

22890

Yes

4

2

Yes

Yes

Yes

___ 2

Living and Foyer

917

19257

No

8

0

Yes

Yes

Yes

___ 3

Gym

861

7749

No

8

0

Yes

Yes

Yes

___ 4

2nd Floor

2097

18873

No

4

2

Yes

Yes

Yes

FLOORS (Total Exposed Area = 4067 sq.ft.)

✓ #

Floor Type

Space

Exposed Perim(ft)

Area

R-Value Perim. Joist

U-Factor

SlabInsul. Vert/Horiz

Tile

Wood

Carpet

___ 1

Slab-On-Grade Edge Ins

1st Floor

202

2289 sqft

0.0 ---

0.563

0 (ft)/0 (ft)

0.20

0.60

0.20

___ 2

Slab-On-Grade Edge Ins

Living and Foyer

93

917 sqft

0.0 ---

0.563

0 (ft)/0 (ft)

0.20

0.60

0.20

___ 3

Slab-On-Grade Edge Ins

Gym

111

861 sqft

0.0 ---

0.563

0 (ft)/0 (ft)

0.20

0.60

0.20

___ 4

Floor Over Other Space

2nd Floor

2097 sqft

--- 0.0

0.239

0.20

0.60

0.20

ROOF

✓ #

Type

Materials

Roof Area

Gable Area

Framing. Fract.

Roof Color

Rad Barr

Solar Absor.

SA Tested

Emitt

Emitt Tested

Deck Insul.

Pitch (deg)

___ 1

Gable or shed

Composition shingles

4888 ft²

1356 ft²

0.11

Dark

N

0.92

No

0.9

No

30

33.69

INPUT SUMMARY CHECKLIST REPORT

ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
___ 1	No attic	Unvented	0	4067 ft²	N	N							

CEILING (Total Exposed Area = 6164 sq.ft.)													
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	FramingFrac.	Truss Type					
___ 1	Single assembly, no airspace(Unvented)	1st Floor	30.0	Blown	2289.0ft²	0.018	0.11	Wood					
___ 2	Single assembly, no airspace(Unvented)	Living and Foyer	30.0	Blown	917.0ft²	0.018	0.11	Wood					
___ 3	Single assembly, no airspace(Unvented)	Gym	30.0	Blown	861.0ft²	0.018	0.11	Wood					
___ 4	Single assembly, no airspace(Unvented)	2nd Floor	30.0	Blown	2097.0ft²	0.018	0.11	Wood					

WALLS (Total Exposed Area = 6936 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	21.0	10	10.0	0	218.3	0.061		0.23	0.75	0.0 %
___ 2	E	Exterior	Frame - Wood	1st Floor	13.0	4.0	0	10.0	0	40.0	0.084		0.23	0.75	0.0 %
___ 3	N	Exterior	Frame - Wood	Living and Foyer	19.0	11.0	4	21.0	0	238.0	0.061		0.23	0.75	0.0 %
___ 4	W	Exterior	Frame - Wood	Living and Foyer	13.0	4.0	0	21.0	0	84.0	0.084		0.23	0.75	0.0 %
___ 5	N	Exterior	Frame - Wood	Living and Foyer	19.0	21.0	6	21.0	0	451.5	0.061		0.23	0.75	0.0 %
___ 6	E	Exterior	Frame - Wood	Living and Foyer	19.0	23.0	0	21.0	0	483.0	0.061		0.23	0.75	0.0 %
___ 7	E	Exterior	Frame - Wood	1st Floor	19.0	12.0	10	10.0	0	128.3	0.061		0.23	0.75	0.0 %
___ 8	N	Exterior	Frame - Wood	1st Floor	19.0	27.0	6	10.0	0	275.0	0.061		0.23	0.75	0.0 %
___ 9	E	Exterior	Frame - Wood	1st Floor	19.0	26.0	0	10.0	0	260.0	0.061		0.23	0.75	0.0 %
___ 10	S	Exterior	Frame - Wood	1st Floor	19.0	19.0	4	10.0	0	193.3	0.061		0.23	0.75	0.0 %
___ 11	W	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	10.0	0	200.0	0.061		0.23	0.75	0.0 %
___ 12	S	Exterior	Frame - Wood	1st Floor	19.0	8.0	2	10.0	0	81.7	0.061		0.23	0.75	0.0 %
___ 13	E	Exterior	Frame - Wood	Living and Foyer	19.0	11.0	6	21.0	0	241.5	0.061		0.23	0.75	0.0 %
___ 14	S	Exterior	Frame - Wood	Living and Foyer	19.0	20.0	0	21.0	0	420.0	0.061		0.23	0.75	0.0 %
___ 15	W	Exterior	Frame - Wood	Living and Foyer	19.0	2.0	0	21.0	0	42.0	0.061		0.23	0.75	0.0 %
___ 16	S	Exterior	Frame - Wood	1st Floor	19.0	12.0	10	10.0	0	128.3	0.061		0.23	0.75	0.0 %
___ 17	E	Exterior	Frame - Wood	Gym	19.0	10.0	6	10.0	0	105.0	0.061		0.23	0.75	0.0 %
___ 18	S	Exterior	Frame - Wood	Gym	13.0	52.0	4	10.0	0	523.3	0.084		0.23	0.75	0.0 %
___ 19	W	Exterior	Frame - Wood	Gym	19.0	13.0	0	10.0	0	130.0	0.061		0.23	0.75	0.0 %
___ 20	N	Exterior	Frame - Wood	Gym	19.0	24.0	0	10.0	0	240.0	0.061		0.23	0.75	0.0 %
___ 21	W	Exterior	Frame - Wood	Gym	19.0	11.0	4	10.0	0	113.3	0.061		0.23	0.75	0.0 %
___ 22	N	Garage	Frame - Wood	1st Floor	13.0	44.0	4	10.0	0	443.3	0.084		0.23	0.75	0.0 %
___ 23	N	Exterior	Frame - Wood	2nd Floor	19.0	21.0	4	9.0	0	192.0	0.061		0.23	0.75	0.0 %
___ 24	W	Exterior	Frame - Wood	2nd Floor	19.0	10.0	4	9.0	0	93.0	0.061		0.23	0.75	0.0 %
___ 25	E	Exterior	Frame - Wood	2nd Floor	19.0	12.0	10	9.0	0	115.5	0.061		0.23	0.75	0.0 %
___ 26	N	Exterior	Frame - Wood	2nd Floor	19.0	21.0	0	9.0	0	189.0	0.061		0.23	0.75	0.0 %
___ 27	W	Exterior	Frame - Wood	2nd Floor	19.0	26.0	0	9.0	0	234.0	0.061		0.23	0.75	0.0 %
___ 28	S	Exterior	Frame - Wood	2nd Floor	19.0	19.0	4	9.0	0	174.0	0.061		0.23	0.75	0.0 %
___ 29	W	Exterior	Frame - Wood	2nd Floor	19.0	20.0	0	9.0	0	180.0	0.061		0.23	0.75	0.0 %
___ 30	S	Exterior	Frame - Wood	2nd Floor	19.0	8.0	2	9.0	0	73.5	0.061		0.23	0.75	0.0 %
___ 31	S	Exterior	Frame - Wood	2nd Floor	19.0	13.0	4	9.0	0	120.0	0.061		0.23	0.75	0.0 %
___ 32	W	Exterior	Frame - Wood	2nd Floor	19.0	7.0	4	9.0	0	66.0	0.061		0.23	0.75	0.0 %
___ 33	S	Exterior	Frame - Wood	2nd Floor	19.0	21.0	4	9.0	0	192.0	0.061		0.23	0.75	0.0 %
___ 34	W	Exterior	Frame - Wood	2nd Floor	19.0	29.0	8	9.0	0	267.0	0.061		0.23	0.75	0.0 %

INPUT SUMMARY CHECKLIST REPORT

DOORS												(Total Exposed Area = 288 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
___ 1	N	Exterior	Insulated	1st Floor	None	0.46	6.00 0	8.00 0	48.0ft²					
___ 2	N	Exterior	Insulated	Living and Foyer	None	0.46	6.00 0	8.00 0	48.0ft²					
___ 3	N	Exterior	Insulated	1st Floor	None	0.46	6.00 0	8.00 0	48.0ft²					
___ 4	S	Exterior	Insulated	Living and Foyer	None	0.46	6.00 0	8.00 0	48.0ft²					
___ 5	N	Garage	Insulated	1st Floor	None	0.46	3.00 0	8.00 0	24.0ft²					
___ 6	N	Exterior	Insulated	2nd Floor	None	0.46	6.00 0	8.00 0	48.0ft²					
___ 7	N	Exterior	Insulated	2nd Floor	None	0.46	3.00 0	8.00 0	24.0ft²					

WINDOWS												(Total Exposed Area = 829 sq.ft.)				
✓ #	Ornt	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	0.22	0.33	N	N	36.0	2	3.00	6.00	1.3 19.5	None	None
___ 2	N	3	Vinyl	Low-E Double	Y	0.22	0.33	N	N	54.0	3	3.00	6.00	1.3 23.5	None	None
___ 3	N	5	Vinyl	Low-E Double	Y	0.22	0.33	N	N	36.0	2	3.00	6.00	1.3 19.5	None	None
___ 4	E	6	Vinyl	Low-E Double	Y	0.22	0.33	N	N	36.0	2	3.00	6.00	1.3 1.5	None	None
___ 5	N	3	Vinyl	Low-E Double	Y	0.22	0.33	N	N	54.0	3	3.00	6.00	1.3 23.5	None	None
___ 6	N	5	Vinyl	Low-E Double	Y	0.22	0.33	N	N	72.0	4	3.00	6.00	1.3 19.5	None	None
___ 7	E	6	Vinyl	Low-E Double	Y	0.22	0.33	N	N	36.0	2	3.00	6.00	1.3 1.5	None	None
___ 8	N	8	Vinyl	Low-E Double	Y	0.22	0.33	N	N	18.0	1	3.00	6.00	1.3 1.5	None	None
___ 9	E	9	Vinyl	Low-E Double	Y	0.22	0.33	N	N	72.0	4	3.00	6.00	1.3 1.5	None	None
___ 10	S	10	Vinyl	Low-E Double	Y	0.22	0.33	N	N	54.0	3	3.00	6.00	1.3 1.5	None	None
___ 11	S	12	Vinyl	Low-E Double	Y	0.22	0.33	N	N	15.0	1	2.50	6.00	1.3 1.5	None	None
___ 12	S	14	Vinyl	Low-E Double	Y	0.22	0.33	N	N	30.0	2	2.50	6.00	1.3 10.5	None	None
___ 13	S	16	Vinyl	Low-E Double	Y	0.22	0.33	N	N	25.0	2	2.50	5.00	1.3 1.5	None	None
___ 14	S	18	Vinyl	Low-E Double	Y	0.22	0.33	N	N	108.0	6	3.00	6.00	1.3 1.5	None	None
___ 15	N	23	Vinyl	Low-E Double	Y	0.22	0.33	N	N	36.0	2	3.00	6.00	1.3 33.8	None	None
___ 16	N	26	Vinyl	Low-E Double	Y	0.22	0.33	N	N	18.0	1	3.00	6.00	1.3 7.5	None	None
___ 17	S	28	Vinyl	Low-E Double	Y	0.22	0.33	N	N	54.0	3	3.00	6.00	1.3 1.5	None	None
___ 18	S	30	Vinyl	Low-E Double	Y	0.22	0.33	N	N	15.0	1	2.50	6.00	1.3 1.5	None	None
___ 19	S	14	Vinyl	Low-E Double	Y	0.22	0.33	N	N	20.0	2	2.50	4.00	1.3 1.5	None	None
___ 20	S	31	Vinyl	Low-E Double	Y	0.22	0.33	N	N	20.0	2	2.50	4.00	1.3 1.5	None	None
___ 21	S	33	Vinyl	Low-E Double	Y	0.22	0.33	N	N	20.0	2	2.50	4.00	1.3 1.5	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00035	5731	314.41	590.26	0.1477	5.0	All	68769 cu ft

GARAGE								
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation
___ 1	1156 ft²	30.8 ft²	37.5 ft²	1156 ft²	93 ft	1156 ft	10 ft	19

MASS					
✓ #	Mass Type	Area	Thickness	FurnitureFraction	Space
___ 1	Default(8lbs/sq.ft.)	0 ft²	0 ft	0.30	1st Floor
___ 2	Default(8lbs/sq.ft.)	0 ft²	0 ft	0.30	Living and Foyer
___ 3	Default(8lbs/sq.ft.)	0 ft²	0 ft	0.30	Gym
___ 4	Default(8lbs/sq.ft.)	0 ft²	0 ft	0.30	2nd Floor

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM														
✓	#	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---GeothermalHeatPump---		Ducts	Block				
							Entry	Power	Volt	Current				
COOLING SYSTEM														
✓	#	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm		SHR	Duct	Block			
HOT WATER SYSTEM														
✓	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length		
	1	Electric	Tankless	1st Floor	0.92 (0.92)	1.0 gal	70 gal	120 deg	Standard	Yes	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 #	-----Supply----- Location	R-Value	Area	-----Return----- Location	R-Value	Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool
	1	1st Floor	6.0	1233 ft²	1st Floor	6.0	308 ft²	Prop. Leak Free	Gym	--- ---	0.030	Yes	0.50	1 1
TEMPERATURES														
Programable Thermostat: Y														
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														
Ceiling Fans: N														
✓	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 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
	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