## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Filonida Department of Business and Professional Regulation - Residential Performance Method

Project Name: McNutt Residence Street: City, State, Zip: , FL , Owner: Design Location: FL, Gainesville	Builder Name: IC Construction Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
1. New construction or existing  2. Single family or multiple family  3. Number of units, if multiple family  4. Number of Bedrooms  5. Is this a worst case?  6. Conditioned floor area above grade (ft²)  Conditioned floor area below grade (ft²)  7. Windows(226.0 sqft.)  a. U-Factor:  BHGC:  CHAPTION New (From Plans)  No  Analysis (From Plans)  1. Wingle-family  1. Wood (From Plans)  2. Single-family  1. Wingle-family  2. Shapping (ft²)  2. Do (ft²)  2. Shapping (ft²)  3. Shapping (ft²)  2. Shapping (ft²)  3. Shapping (ft²)  3. Shapping (ft²)  3. Shapping (ft²)  3. Shapping (ft²)  4. Number of units, if multiple family  5. No  6. Conditioned floor area above grade (ft²)  5. Shapping (ft²)  6. Shapping (ft²)  6. Shapping (ft²)  6. Shapping (ft²)  7. Windows (ft²)  6. Shapping (ft²)  7. Windows (ft²)  8. Shapping (ft²)  8. Shapping (ft²)  8. Shapping (ft²)  8. Shapping (ft²)  9. Shapping (ft²)  9	9. Wall Types (1932.7 sqft.)  a. Frame - Wood, Exterior  b. Frame - Wood, Adjacent  c. N/A  d. N/A  R=  10. Ceiling Types (2083.0 sqft.)  b. N/A  c. N/A  R=  10. Ceiling Types (2083.0 sqft.)  b. N/A  c. N/A  R=  ft²  Insulation  R=  ft²  Insulation  Area  R=  ft²  Insulation  Area  R=0.0  2083.00 ft²  R=  c. N/A  R=  ft²  A. Sup: Main, Ret: Main, AH: Garage  kBtu/hr  Efficiency  a. Central Unit  SEER:14.00
SHGC:  c. U-Factor: N/A ft² SHGC:  d. U-Factor: N/A ft² SHGC:  d. U-Factor: N/A ft² SHGC:  Area Weighted Average Overhang Depth: 6.956 ft. Area Weighted Average SHGC: 0.220  8. Floor Types (2083.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2083.00 ft² b. N/A R= ft² c. N/A R= ft²	13. Heating systems a. Electric Heat Pump  14. Hot water systems a. Electric  Tankless  Cap: 1 gallons  EF: 0.920 b. Conservation features  None  15. Credits  Cap: 1 cycloservation  Cap: 1 cycloservation  Cap: 1 cycloservation  Cap: 1 cycloservation  EF: 0.920  Cap: 1 cycloservation  Cap: 1 cyclos
Glass/Floor Area: 0.108 Total Proposed Modified Total Baseline	PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY:  12-20-20  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 R408321.
- Compliance requires am 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 500 ACHEO (R402.4.1.2).
- Compliance with a proposed duct leakage On requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICCC 380), is not greater than 0.000 On for whole house.

				PROJECT								
Title: Building Type Owner Name: # of Units: Builder Name Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	IC Construction     Single-family	n	Bedrooms: Conditioned A Total Stories Worst Case: Rotate Angle Cross Ventila Whole House	: 1 No : 0 ation:			Lot # Block PlatB Stree Coun	k/Subdivis sook: et:	sion: Co	reet Addre	SS	
				CLIMATE								
√ De	esign Location	TMY Site		Desig 97.5 %	n Temp 6 2.5 %		esign Tem er Summ		eating ree Days	Design Moisture	-	Temp
FL	., Gainesville	FL_GAINESVILLE	_REGI	32	92	70	75	1:	305.5	51	Me	edium
				BLOCKS								
Number	Name	Area	Volume									
1	Block1	2083	18747									
				SPACES								
Number	Name	Area	Volume Kit	chen Oc	cupants	Bedroo	ms Ir	nfil ID	Finished	d Cool	ed	Heated
1	Main	2083	18747	⁄es	6	3	1		Yes	Yes		Yes
				FLOORS								
V #	Floor Type	Space	Perime	eter R-\	√alue	Area				Tile Wo	od Ca	rpet
1S	lab-On-Grade Edge	Insulatio Ma	ain 220 ft		0	2083 ft <sup>2</sup>				0.33 0.3	3 0	.34
				ROOF								
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1	Hip	Composition shingl	es 2413 ft <sup>2</sup>	0 ft²	Medium	N	0.85	No	0.9	No	0	30.3
				ATTIC								
√ #	Туре	Ventila	ation \	/ent Ratio (1	in)	Area	RBS	IRO	cc			
1	Full attic	Unver	nted	0	2	2083 ft²	N	N	N			
				CEILING								
V #	Ceiling Type		Space	Space R-Value Ins Type				Area Framing Fra			Туре	
1	Under Attic (Ur	nvented)	Main	30	Blowr	n	2083 ft <sup>2</sup>		0.11	Wo	od	

## INPUT SUMMARY CHECKLIST REPORT

	WALLS													
V #	Ornt	Adjacent To Wall Type		Space	Cavity R-Value	Wid Ft	th In	Height Ft In	Sheathing Area R-Value		Framing Sola		Below Grade%	
1	N	Exterio		me - Wood	Main	13	36	4	9	327.0 ft <sup>2</sup>	0.625	0.23	0.75	0
2	Ν	Exterio	r Fra	me - Wood	Main	13	25	0	9	225.0 ft <sup>2</sup>	0.625	0.23	0.75	0
3	Е	Exterio	r Fra	me - Wood	Main	13	38	0	9	342.0 ft <sup>2</sup>	0.625	0.23	0.75	0
4	S	Exterio	r Fra	me - Wood	Main	13	6		9	54.0 ft <sup>2</sup>	0.625	0.23	0.75	0
5	Е	Exterio	r Fra	me - Wood	Main	13	4	4	9	39.0 ft <sup>2</sup>	0.625	0.23	0.75	0
6	S	Exterio	r Fra	me - Wood	Main	13	14	2	10	141.7 ft <sup>2</sup>	0.625	0.23	0.75	0
7	W	Exterio	r Fra	me - Wood	Main	13	4	8	10	46.7 ft <sup>2</sup>	0.625	0.23	0.75	0
8	S	Exterio	r Fra	me - Wood	Main	13	7	4	10	73.3 ft <sup>2</sup>	0.625	0.23	0.75	0
9	Е	Exterio	r Fra	me - Wood	Main	13	4	8	9	42.0 ft <sup>2</sup>	0.625	0.23	0.75	0
10	S	Exterio	r Fra	me - Wood	Main	13	14	2	9	127.5 ft <sup>2</sup>	0.625	0.23	0.75	0
11	W	Exterio	r Fra	me - Wood	Main	13	8	6	9	76.5 ft <sup>2</sup>	0.625	0.23	0.75	0
12	S	Exterio	r Fra	me - Wood	Main	13	2		9	18.0 ft <sup>2</sup>	0.625	0.23	0.75	0
13	W	Exterio	r Fra	me - Wood	Main	13	10	8	9	96.0 ft <sup>2</sup>	0.625	0.23	0.75	0
14	Ν	Exterio	r Fra	me - Wood	Main	13	2		9	18.0 ft <sup>2</sup>	0.625	0.23	0.75	0
15	W	Exterio	r Fra	me - Wood	Main	13	14		9	126.0 ft <sup>2</sup>	0.625	0.23	0.75	0
16	S	Garag	e Fra	me - Wood	Main	13	20		9	180.0 ft <sup>2</sup>	0.625	0.23	0.75	0
						DO	ORS							
$\vee$	#	Ori	nt	Door Type	Space			Storms	s U-Val	ue Ft	Width In	Height Ft	In	Area
	1	N		Insulated	Main			None	.4	6		8		48 ft²
	2	S		Insulated	Main			None	.4	6		8	4	48 ft²
	3	s		Insulated	Main			None	.4	3		6	8 2	20 ft <sup>2</sup>
				Ori	entation show		DOWS		ad orientatio	n				
,		Wal	1	On	critation snot	WIT IS THE CI	nicicu, i	торозс	o onematio		hang			
$\checkmark$	#	Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	lm	p Area		Separation	Int Sha	de S	Screening
	1	N 1	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft <sup>2</sup>	10 ft 6 in	1 ft 4 in	None	)	None
	2	N 1	Vinyl	Low-E Double	Yes	0.33	0.22	N	50.0 ft <sup>2</sup>	10 ft 6 in	1 ft 4 in	None	)	None
	3	N 1	Vinyl	Low-E Double	Yes	0.33	0.22	N	9.0 ft <sup>2</sup>	10 ft 6 in	1 ft 4 in	None	)	None
	4	N 2	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft <sup>2</sup>	1 ft 6 in	1 ft 4 in	None	)	None
	5	N 2	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft <sup>2</sup>	1 ft 6 in	1 ft 4 in	None	)	None
	6	N 2	Vinyl	Low-E Double	Yes	0.33	0.22	N	3.0 ft <sup>2</sup>	1 ft 6 in	1 ft 4 in	None	)	None
	7	N 2	Vinyl	Low-E Double	Yes	0.33	0.22	N	9.0 ft <sup>2</sup>	1 ft 6 in	1 ft 4 in	None	)	None
	8	S 4	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft <sup>2</sup>	7 ft 6 in	1 ft 4 in	None	)	None
	9	S 8	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft <sup>2</sup>	7 ft 6 in	1 ft 4 in	None	)	None
	10	W 11	Vinyl	Low-E Double	Yes	0.33	0.22	N	3.0 ft <sup>2</sup>	1 ft 6 in	1 ft 4 in	None	)	None
	11	W 13	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft <sup>2</sup>	1 ft 6 in	1 ft 4 in	None	) 	None

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

					GA	RAGE								
V	/ #	Floor Area	C	Ceiling Area Exposed Wa			neter	Avg. Wall	Height	Exposed Wall Insulation				
	1	520 ft <sup>2</sup>		520 ft <sup>2</sup>	80 ft		9 ft		1					
					INFIL	TRATIO	N							
#	Scope	Method		SLA	CFM 50	ELA	Eq	LA /	ACH	ACH	50			
1	Wholehouse	Proposed AC	CH(50)	.000286	1562.3	85.77	161	.29 .	1128	5				
					HEATIN	IG SYST	EM							
V	/ #	System Type		Subtype	Speed	E	fficiency	Сар	oacity			Block	Dı	ucts
	1	Electric Heat Pur	mp/	None	Singl	H	ISPF:8.5	36 k	Btu/hr			1	sy	/s#1
					COOLIN	IG SYST	EM							
V	/ #	System Type		Subtype	Subtyp	e Et	ficiency	Capacity	Air F	Flow SH	IR	Block	Dı	ucts
	1	Central Unit/		None	Singl	SI	ER: 14	36 kBtu/hr	1080	cfm 0.8	35	1	sy	/s#1
					HOT WAT	TER SYS	TEM							
V	/ #	System Type	SubType	Location	EF	Сар		Use	SetPnt		Cons	ervatio	า	
	1	Electric	Tankless	Exterior	0.92	1 gal	(	60 gal	120 deg		N	one		
				SOL	AR HOT \	WATER	SYSTE	М						
V	FSE Cert		ame		System Mo	odel #	Co	llector Mode		ollector Area	Storage Volume		FEF	
	None	e None								ft²				
					D	UCTS								-
V	/ #	Supp Location R-	oly Value Area	Ret Location	urn Area	Leakage	Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC #
	1	Main	6 416.6 ft		104.15	Prop. Lea		Garage		62.5 cfm	0.03	0.50	1	1

## FORM R405-2017

## **INPUT SUMMARY CHECKLIST REPORT**

O I (IVI I ( I (				01 001	******		TILOILE	<u> </u>	•					
TEMPERATURES														
Programa	able Thermo	stat: Y		Ceiling Fans:										
Cooling Heating Venting	[ ] Jan [X] Jan [ ] Jan	[ ] Feb [X] Feb [ ] Feb	[ ] Mar [X] Mar [X] Mar	[ ] Apr [ ] Apr [X] Apr	-	] May ] May ] May	[X] Jun [ ] Jun [ ] Jun	[X] Jul 	[X] Aug [ ] Aug [ ] Aug	[X] Se [ ] Sep [ ] Sep	0	Oct Oct X Oct	[ ] Nov [X] Nov [X] Nov	Dec [X] Dec [X] Dec
Thermostat	Schedule:	HERS 200	6 Reference	)				Ho	ours					
Schedule T	ype		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (W	D)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (W	EH)	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
Heating (W	D)	AM PM	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 (W	EH)	AM PM	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		