## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Street: City, State, Zip: Owner: Design Location:	Darby Residence , FL, FL, Gainesville		Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia	(Florida Climate Zone 2)					
			·						
New constructio	J	New (From Plans)	10. Wall Types(2293.0 sqft	t.) Insulation Area					
2. Single family or	multiple family	Detached	a. Concrete Block - Int Ir b. N/A	nsul, ExterioR=13.0 2293.00 ft <sup>2</sup>					
3. Number of units	, if multiple family	1	c. N/A	$R = ft^2$					
4. Number of Bedr	ooms	3	d. N/A						
5. Is this a worst ca	ase?	No	No 11. Ceiling Types(2984.0 sqft.) Insulation						
6. Conditioned floo	r area above grade (f	2984	a. Catnedrai/Single Asse	R= ft <sup>2</sup>					
Conditioned floo	r area below grade (ft	2) 0	c. N/A	$R = ft^2$					
7. Windows(351.0		Area							
<ul><li>a. U-Factor: SHGC:</li></ul>	Dbl, U=0.26 SHGC=0.20	351.00 ft <sup>2</sup>	a. a. Sup: 1st Floor, Ret:	1st Floor, AH: 2nd Flo@r 596.8					
b. U-Factor:	N/A	ft <sup>2</sup>	C.						
SHGC:			13. Cooling Systems	kBtu/hr Efficiency					
c. U-Factor:	N/A	ft <sup>2</sup>	a. Central Unit	48.0 SEER:17.00					
SHGC:	erage Overhang Dept	·h· 3 551 ft							
Area Weighted Av		0.200	14. Heating Systems	kBtu/hr Efficiency					
8. Skylights	Description	Area	3.551 ft 0.200 Area N/A ft²  a. Central Unit 48.0 SEER:17.00  48.0 SEER:17.00  48.0 SEER:17.00  48.0 SEER:17.00						
U-Factor:(AVG)	N/A								
SHGC(AVG):	N/A		15 Hot Water Systems						
9. Floor Types		nsulation Area	a. ElectricTankless	Cap: 1 gallons					
<ul><li>a. Slab-On-Grade</li><li>b. Floor Over Oth</li></ul>		= $0.0$ 2326.00 ft <sup>2</sup> = $0.0$ 658.00 ft <sup>2</sup>		EF: 0.920					
c. N/A	R:	2	b. Conservation features						
			16. Credits	CF, Pstat					
Glass/Floor Area: 0	.118	Total Proposed Mod	fied Loads: 57.32						
		-	line Loads: 79.24	PASS					
I hereby certify that	the plans and specific	cations covered by	Review of the plans and						
	in compliance with the		specifications covered by this						
Code.			calculation indicates complian						
PREPARED BY: _				R= ft² R= ft² R= ft² R= ft² Ining Types(2984.0 sqft.) Insulation Area athedral/Single Assembly (VentedR=30.0 2984.00 ft² R= ft²					
TINELANED DI			this building will be inspected	for 2					
DATE:			compliance with Section 553.						
	this building on design		Florida Statutes.	12 7 15					
with the Florida En		ned, is in compliance		COD WE TRU					
	ergy Code.		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 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**

					PROJE	СТ								
Owner Build Perm Jurise Fami New/ Year	ling Type:	Darby Residence User  Detached New (From Plans) 2022		Bedrooms: Conditioned Area: Total Stories: Worst Case: Rotate Angle: Cross Ventilation: Whole House Fan: Terrain: Shielding:		Address type 3 Lot #: 2984 Block/SubDiv 2 PlatBook: No Street: 0 County: City, State, Z  Rural Moderate/Rural		/SubDivisio ook: t: ty:	 Columbia					
					CLIMA	TE								
√ Des Loca	sign ation		Tmy Site		Design 97.5%	Temp 2.5%	Int Desigr Winter S		Heating Degree Days	Design Moisture		ily temp nge		
FL	., Gainesville		FL_GAINESVILLE	_REGIONA	32	92	70	75	1305.5	51	Medi	um		
					BLOC	KS								
√ Nun	nber	Name	Area	Vol	ume									
1		Block1	2984	26198	3									
					SPAC	ES								
√ Nun	Number Name		Area	Volume	Kitchen	Occupant	s Bedro	ooms	Finished	Cool	Cooled Heated			
1		1st Floor 2nd Floor	2326 658	20934 5264	Yes No	4 2	2		Yes Yes	Ye Ye		Yes Yes		
					FLOO	RS	(Τ	Total Ex	posed Are	ea = 23	26 sq	.ft.)		
<b>V</b> #	Floor Typ	e	Space	Exposed	Perim Pe	rimeter R-V	/alue Area	U-Factor	Joist R-Value	· Tile \	Vood	Carpet		
1	Slab-On-Gr Floor Over	rade Edge Ins Other Space	1st Floor 2nd Floor	202		0	2326 f 658 f			0.20 0.00	0.60 0.50	0.20 0.50		
					ROO	F								
<b>\</b> #	Туре		Materials			able Roo rea Colo		Solar Absor.	SA Emitt Tested	Emitt Tested	Deck Insul.			
1	Gable or sh	ned	Metal	24	52 ft² 3 <b>8</b> £	hillihished, (	Galvalur <b>i\</b>	0.35	No 0.4	No	0	18.43		
					ATTI	С								
<b>\</b> #	Туре		Ventilation	1	Vent Rat	o (1 in)	Area	RBS	IRCC					
	No attic		Unvented		0		2326 ft <sup>2</sup>	N	N					

## **INPUT SUMMARY CHECKLIST REPORT**

			CEILIN	IG	(Total	Exposed	Area = 298	34 sq.ft.)		
# Ceiling Type		Space	R-Value	e Ins. Type	Area l	J-Factor Fra	aming Frac.	Truss Type		
1 Cathedral/Single Asse 2 Cathedral/Single Asse	,	1st Floor 2nd Floor	30.0 30.0	Blown Blown	2326.0ft <sup>2</sup> 0.060 658.0ft <sup>2</sup> 0.060		0.11 0.11	Wood Wood		
			WALL	.S	(Total	Exposed	Area = 229	93 sq.ft.)		
Adjacent # Ornt To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area U- sq.ft. Factor	Sheath Frm r R-Value Frac	. Solar Below c. Absor. Grade		
2 E Exterior 3 S Exterior 4 W Exterior 5 E Exterior	Conc. Blk - Int Ins Conc. Blk - Int Ins	1st Floo 1st Floo 1st Floo 1st Floo 2nd Floo 2nd Floo	or 13.0 or 13.0 or 13.0 or 13.0	65.0 10 35.0 4 65.0 10 35.0 4 14.0 6 44.0 6	9.0 0 9.0 0 9.0 0 9.0 0 8.0 0 8.0 0	592.5 0.064 318.0 0.065 592.5 0.064 318.0 0.064 116.0 0.064 356.0 0.064	4 0 4 0 4 0 4 0	0.75 0 % 0.75 0 % 0.75 0 % 0.75 0 % 0.75 0 % 0.75 0 %		
			DOOR	lS .	(Tota	l Expose	d Area = 2°	16 sq.ft.)		
√# Ornt Adjacent To	Door Type	Space	St	orms	U-Value	Width Ft In	Height Ft In	Area		
1 N	Exterior Insulated Exterior Insulated Exterior Insulated			None None None None None	0.40 0.40 0.40 0.40 0.40	6.00 0 6.00 0 6.00 0 3.00 0 6.00 0	8.00 0 8.00 0 8.00 0 8.00 0 8.00 0	48.0ft <sup>2</sup> 48.0ft <sup>2</sup> 48.0ft <sup>2</sup> 24.0ft <sup>2</sup> 48.0ft <sup>2</sup>		
			WINDO	WS	(Tota	I Expose	d Area = 3	51 sq.ft.)		
√# Ornt ID Frame	Panes NFRC	U-Factor S	SHGC Imp :	Storm Area	Overhang Depth Separation		Interior Shade	Screening		
2 E	ow-E Double Yes	0.26 0.26 0.26 0.26 0.26	0.20 N 0.20 N 0.20 N 0.20 N 0.20 N 0.20 N 0.20 N 0.20 N	N 72.0ft N 40.0ft N 12.0ft N 72.0ft N 20.0ft N 60.0ft N 30.0ft N 45.0ft	1.0 ft 6 in 1.0 ft 6 in	2.0 ft 4 in 2.0 ft 4 in	None None None None None None None	None None None None None None None		
		II	NFILTRA	TION						
√ # Scope Metho	od SI	A CFM	50 ELA	EqLA	ACH	ACH50	Space	:(s)		
1 Wholehouse Propose	ed ACH(50) 0.00	028 218	3 119.78	224.86	0.1342	5.0	All			
			MAS	S						
√# Mass Type	Ar	ea	Thickn	ess F	urniture Fracti	on	Space			
1 Default(8 lbs/sq.ft.) 2 Default(8 lbs/sq.ft.)		ft² ft²	0 ft 0 ft		0.30 0.30		1st Floor 2nd Floor			

## **INPUT SUMMARY CHECKLIST REPORT**

					HE	ATING	SYS	TEM						
<b>\</b> #	System Type		Sub	type/Spee	d	AHRI #	Efficien		apacity :Btu/hr E	Geother ntry Pow		tPump olt Curr		Block
1	Electric Heat P	ump	No	ne/Single			HSPF: 8	.50	48.0	0.0	00 0.	00 0.0	00 sys#1	1
					CC	OLING	SYS	TEM						
<b>\</b> #	System Type		Sub	type/Spee	d	AHRI#	Efficie	ency	Capacit kBtu/hi	,	· Flow cfm	SHR	Duct	Block
1	Central Unit		1	None/Sing	le		SEER	:17.0	48.0	1	440	0.85	sys#1	1
					НОТ	WATE	R SY	STEN	/					
<b>\</b> #	System Type	Subtype		Location		EF(UEF)	Сар	Use	e SetPnt	Fixture	Flow	Pipe Ins	s. Pip	e length
1	Electric	Tankless		Exterior		0.92 (0.92)	1.00 gal	l 60 g	al 120 de	g Stand	dard	None		99
	Recirculation System		: Control ype		Loop length	Branch length	Pump power	DWH	IR Facilit Conne			DWHR Eff	Othe	er Credits
1	No				NA	NA	NA	No	NA	N/	4	NA	No	ne
						DU	CTS							
V Duct		ply R-Value Ar		Ret ition			Leakage ∃	Гуре	Air Handler	CFM 25 TOT	CFM 2 OUT	5 QN	RLF H	HVAC # leat Cool
11	st Floor	6.0 597 f	t <sup>2</sup> 1st Floor		6.0	149 ft² P	rop. Leak	Free	2nd Floor			0.03	0.50	1 1
					T	EMPER	ATUF	RES						
Progr Cooli Heati Venti	ing [X] Jan	ostat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[ ] Apr [ ] Apr [X] Apr	[] []N	May []	Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[]C []C [X]C	oct [	] Nov X] Nov X] Nov	[] Dec [X] Dec [] Dec
	ermostat Schedu hedule Type	ule: HERS 2	006 Referer 1	nce 2	3	4	5	6	ours 7	8	9	10	11	12
Co	ooling (WD)	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
Co	ooling (WEH)	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
He	ating (WD)	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
He	ating (WEH)	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