FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Katzker Street: City, State, Zip: , FL , Owner: Design Location: FL, Gainesville	Builder Name: Sparks Construction Permit Office: Permit Number: Jurisdiction: County: columbia (Florida Climate Zone 2)	
New construction or existing New (From Plans) Single family or multiple family Number of units, if multiple family Number of Bedrooms Is this a worst case? No Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) Windows(90.0 sqft.) Description Area U-Factor: Dbl, U=0.60	10. Wall Type≰1032.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A R= ft² d. N/A R= ft² 11. Ceiling Types (800.0 sqft.) a. Under Attic (Unvented) b. N/A R= ft² c. N/A R= ft² 11. Ceiling Types (800.0 sqft.) R=30.0 R=30	
SHGC: SHGC=0.27 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft. Area Weighted Average SHGC: 0.270 8. Skylights Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (800.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 800.00 ft² b. N/A R= ft²	13. Cooling systems a. PTAC and Room Unit 24.0 EER:21.00 14. Heating systems a. Electric Heat Pump 15. Hot water systems a. Electric Tankless Cap: 1 gallons EF: 0.920 b. Conservation features None	
c. N/A R= ft ²	16. Credits CF, Pstat	
Glass/Floor Area: 0.113 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:	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 R403.3.2.1.
- Compliance requires an 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 5.00 ACH50 (R402.4.1.2).
- Compliance with a proposed duct leakage Qn requires a 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.

			<u> </u>	PROJE								
Title: Building Type Owner Name: # of Units: Builder Name Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	1 : Sparks Constr		Bedrooms Conditione Total Stori Worst Cas Rotate An Cross Ver Whole Ho	ed Area: es: se: gle: tilation:	1 3575 1 No 0		Lot # Block PlatB Stree Coun	k/Subdivisi Book: et:	ion: co	reet Addres	ss	
				CLIMA	TE							
√ De	esign Location	TMY Site			esign Temp .5 % 2.5		esign Tem er Summ		eating ee Days	Design Moisture	-	Temp
FI	., Gainesville	FL_GAINESVILLE	_REGI	3	32 92	2 70	75	13	305.5	51	M	edium
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	800	7200									
				SPAC	ES							
Number	Name	Area	Volume	Kitchen	Occupants	Bedro	oms Ir	nfil ID F	inished	Cool	ed	Heated
1	Main	800	7200	Yes	2	1	1	١	⁄es	Yes		Yes
				FLOO	RS							
√ #	Floor Type	Space	Peri	meter	R-Value	Area				Tile Woo	od Ca	rpet
1S	lab-On-Grade Edge	e Insulatio Ma	ain 114	l ft	0	800 ft ²			C	0.33 0.3	3 0	.34
				ROO	F							
√ #	Туре	Materials	Roof Area	Gable Area			Solar Absor.	SA Tested	Emitt		Deck Insul.	Pitch (deg)
1	Gable or shed	Composition shing	les 926 ft²	234 ft	² Darl	c N	0.92	No	0.9	No	0	30.26
				ATTI	С							
√ #	Туре	Ventila	ation	Vent Ration	Vent Ratio (1 in) Area			RBS IRCC				
1	Full attic	Ven	ted	300)	800 ft ²	800 ft ² N					
				CEILI	NG							
V #	Ceiling Type		Space	Space R-Value Ins Type			Area Framing Fra			Truss	Туре	
1	Under Attic (V	ented)	Main	30	Blo	wn	800 ft ²	0).11	Woo	od	

INPUT SUMMARY CHECKLIST REPORT

						WA	ALLS							
V #	Adjacent # Ornt To Wall Type		Space	Cavity	Cavity Width R-Value Ft In		Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%		
1	N	Exte		Frame - Wood	Main		24		9	216.0 ft ²		0.23	0.75	0
2	Е	Exte	rior	Frame - Wood	Main	13	33	4	9	300.0 ft ²		0.23	0.75	0
3	S	Exte	rior	Frame - Wood	Main	13	24		9	216.0 ft ²		0.23	0.75	0
4	W	Exte	rior	Frame - Wood	Main	13	33	4	9	300.0 ft ²		0.23	0.75	0
						DO	ORS							
\checkmark	#	(Ornt	Door Type	Space			Storms	U-Valu	ıe F	Width t In	Height Ft	t In	Area
	. 1		N	Insulated	Main			None	.21	3	3	6	8	20 ft ²
	. 2		E	Insulated	Main			None	.21	3	3	6	8	20 ft ²
	. 3		S	Insulated	Main			None	.21	5	5 4	6	8 3	5.6 ft ²
					Orientation sh		DOWS		d orientation	١.				
		V	/all		onomanon on			Торосо	2 0110111011		rhang			
\vee	#			rame Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sha	ade	Screening
	. 1	Ε :	2 V	inyl Low-E Doubl	e Yes	0.6	0.27	Ν	16.0 ft ²	1 ft 6 in	2 ft 4 in	None	е	None
	2	E	2 V	/inyl Low-E Doubl	e Yes	0.6	0.27	Ν	15.0 ft ²	1 ft 6 in	2 ft 4 in	None	е	None
	. 3	S	3 V	/inyl Low-E Doubl	e Yes	0.6	0.27	Ν	9.0 ft ²	1 ft 6 in	2 ft 4 in	None	е	None
	4	S	3 V	inyl Low-E Doubl	e Yes	0.6	0.27	Ν	15.0 ft ²	1 ft 6 in	2 ft 4 in	None	е	None
	. 5	W	4 V	inyl Low-E Doubl	e Yes	0.6	0.27	Ν	15.0 ft ²	1 ft 6 in	2 ft 4 in	None	е	None
	6	W	4 V	inyl Low-E Doubl	e Yes	0.6	0.27	N	20.0 ft ²	1 ft 6 in	2 ft 4 in	None	е	None
						INFILT	RATIO	ON						
#	Scope		Met	thod	SLA	CFM 50	ELA	E	ΞqLA	ACH	ACI	H 50		
1 Wh	nolehou	se P	ropose	ed ACH(50)	.000286	600	32.92		61.8	.1027		5		
						HEATING	SYS	TEM						
$\sqrt{}$	#	Syste	т Тур	e	Subtype	Speed		Efficien	cy (Capacity		E	Block	Ducts
	. 1	Electr	ic Hea	at Pump/	None	Singl		HSPF:8	.5 2	4 kBtu/hr			1	sys#1
						COOLING	G SYS	TEM						
$\sqrt{}$	#	Syste	т Тур	ре	Subtype	Subtype		Efficienc	у Сарас	ity A	ir Flow S	SHR E	Block	Ducts
	. 1	PTAC	and F	Room Unit/	None	Singl		EER: 21	24 kBtu	ı/hr 72	20 cfm 0).85	1	sys#1
					ŀ	TAW TOP	ER SY	STEM						
$\sqrt{}$	#	Sys	tem T	ype SubType	Location	EF	Ca	р	Use SetPr		nt	Conse	rvation	
	1	ГІо	ctric	Tankless	Exterior	0.92	1 ga	al	40 gal	140 de	20	No	nno	

INPUT SUMMARY CHECKLIST REPORT

					SOI	LAR HO	T WATER	SYSTI	EM						
\vee	FSEC Cert #	Company	Name		System Model #			C	Collector Model #			Storage Volume		FEF	
	None	None									ft²				
DUCTS															
\checkmark	#		ıpply R-Value Area	a L	Re	turn Area	Leakaç	је Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC # Cool
	1	Main	6 2 ft ²		Main	2 ft²	Prop. Le	ak Free	Main	cfm	24.0 cfm	0.03	0.50	1	1
						TEM	PERATUR	RES							
Program	nable Ther	mostat: Y			С	eiling Fan	s:								
Cooling Heating Venting	[] Jar [X] Jar [] Jar	n []Fel n [X]Fel n []Fel	o [] Mar o [X] Mar o [X] Mar	[] A [X] A	Apr Apr Apr	[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep		oct Oct Oct	[] Nov [X] Nov [X] Nov	[x]	Dec Dec Dec
Thermosta Schedule		e: HERS 2	2006 Referenc 1	e 2	3	4	5	H 6	ours 7	8	9	10	11		12
Cooling (V	VD)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	<u> </u>	30 78
Cooling (V	VEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	3	30 78
Heating (V	VD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	6	68 68
Heating (V	VEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	6	68 68
							MASS								
M	ass Type			Ar	ea		Thickness		Furniture Frac	ction	Spa	ace			
De	efault(8 lbs	s/sq.ft.		0	ft²		0 ft		0.3		N	Main			