FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Doroshenko Hanger Living Quarters Street: 252 SW Voyager Ct City, State, Zip: Lake City , FL , 3205 - Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: 121000
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) 6. Conditioned floor area below grade (ft²) 7. Windows (58.6 sqft.) Description Area a. U-Factor: Dbl, U=0.55 SHGC: SHGC=0.50 b. U-Factor: N/A ft² 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: 1.000 ft. Area Weighted Average SHGC: 0.500 8. Floor Types (681.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 681.00 ft² R= ft² R= ft² R= ft²	9. Wall Types (1018.7 sqft.) a. Frame - Wood, Exterior B. N/A C. N/A C. N/A C. N/A C. Ceiling Types (681.0 sqft.) a. Cathedral/Single Assembly (Unvented) b. N/A C. N/B C. O.
Glass/Floor Area: 0.086 Total Proposed Modified Total Standard Reference	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: 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 completion of a Florida Air Barrier and Insulation Inspection Checklist



			'	PROJECT	=		M 1	· January Income			
Title: Building Type: Owner: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Doroshenko Hang User 1 Columbia County 121000 Single-family New (From Plans		Bedrooms: Conditioned Total Stories Worst Case: Rotate Angle Cross Ventili Whole Hous	; 1 No e: 0 ation:			Address Ty Lot # Block/Subt PlatBook: Street: County: City, State,	Division:	Street Addi 252 SW Vo Columbia Lake City , FL , 32		Ot .
	A DEPARTMENT OF THE PARTMENT O			CLIMATE							
Desi	gn Location	TMY Site	IEG0 Zone		yn Temp 6 2.5 %	Int Desig Winter		Heating Degree Da	Desi ys Moist		ily Temp Range
FL,	Gainesville	FL_GAINESVILLE	_REGI 2	32	92	70	75	1305.5	51		Medium .
				BLOCKS	3						
Number	Name	Area	Volume							******	
, 1	Block1	681	5448								
		ACADA ATTACA	·	SPACES)						
Number	Name	Area	Volume K	itchen O	ccupants	Bedrooms	Infil ID	Finish	ed C	ooled	Heated
1	Main	681	5448	Yes	2	1	1	Yes	Y	88	Yes
				FLOORS)						
/ #	Floor Type	Space	Perin	neter R	Value	Area		····	Tile '	Wood	Carpet
1 Slat	o-On-Grade Edge Ir	nsulation Ma	ein 127	ft	0	681 ft²	oly sky sai had		0.3	0	0.7
			, , .	ROOF	enomi i		7-0401A01A				
V #	Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emilt Tested	Deck Insul	
1	Flat	Composition shing	les 683 ft²	28 ft²	Medlum	0.96	No	0.9	No	0.7	4.8
		- Wildering (ATTIC		1,					Linuxuu ayar ahii
√ #	Туре	Ventil	ation	Vent Ratio (1 in)	Area	RBS	IRCC			
1	No attic	Unve	nted	0		681 ft²	N	N			***************************************
				CEILING	3					tivit -	1000
V #	Ceiling Type	Control of the contro	Space	R-Value	Α	Framing	Frac	Tr	uss Typ	00	
1	1 Cathedral/Single Assembly (Unvented) Main 30 681 ft ² 0.11 Wood										

***		***************************************	///	· ·				WAL	LS		*******						
	/ #	_Ornt_		Adjace	nt Well	Тура	Space	Cavity R-Value	Wid Et	th Jo	H	leight In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
	1	N			Main	13	13	4	8	0	106.7 ft ²	0.63	0.23	0.75	0		
	2	E	E	xterior	Fran	me - Wood	Maln	13	50	4	8	0	402.7 ft ²	0.63	0.23	0.75	0
	3	s	Ε	xterior	Fran	me - Wood	Main	13	13	4	8	0	106.7 ft²	0.63	0.23	0.75	0
	4	W	E	xterior	Fran	ne - Wood	Maln	13	50	4	8	0	402.7 ft ²	0.63	0.23	0.75	0
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								DOC	RS		******				- military may be		
√	/******	#		Om		Door Type	Space	astitus pastitus		Storms		U-Valu	ie F	Width t In	Heigh Ft	it In	Area
		1		E	***************************************	Insulated	Main			Metal		.28		************	6	В	20 ft²
		2		S		Insulated	Main			Metal		.46	8	3	6	8	20 ft²
-	******	······································					~~	MIND					-11111			William .	<u> </u>
				Wall			Orientation sr	nown is the ent	erea, F	roposec	ı orı	entation.	Ove	rhang			
\ \	,	# (Ornt		Frame	Panes	NFRC	U-Factor S	SHGC			Area		rnang Separation	Int Sh	ade	Screening
	····	1	W	4	Vinyl	Low-E Double	Yes	0.55	0.5	······································		49.8 ft ²	1 ft O in	6 ft 0 in	Drapes/	VIII III III III	None
		2	w	4	Vinyl	Low-E Double	Yes	0.55	0.5			7.1 ft ²	1 ft O in	6 ft 0 in	Drapes/		None
************		3	W	4	Vłnyl	Low-E Double	Yes	0.55	0.5			1.7 112	1 ft 0 in	6 ft 0 in	Drapes/		None
X.II.	***********			(1971 <u>————————</u>	1141000 (00000)	to the second se	INFILTE	ATIC	N	Marina)	,					
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#		Scope olehous	P.		Aethod Guess	·	SLA .0005	CFM 50 893.1	ELA 49.03		Eq.		.385		3363	······································	
41/11								HEATING		*********				, minary -			The state of the s
\/	/	#	Sv	stem T	voe		Subtype	1107711140		Efficier	nev	*****	Capacity			Block	Ducts
		1	.,,		leat Pur		Nane		- Wallet	HSPF:			5 kBtu/hr		***************************************	1	Ductless
		W. L				The state of the s		COOLING	SYS	TEM		- 10 miles					-1011
V	7	#	Sy	stem T	ype		Subtype		-7718/6	Efficienc	ЭУ	Capac	ity /	Air Flow	SHR	Block	Ducts
		1		entral L	******************************		None	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SEER: 1	14	35 kBt		050 cfm	0.75	1	Ductless
		****					f-	OT WATE	R SY	STEN	1	<u> </u>					
V	_	#		System	Туре	SubType	Location	EF	Ca	ф		Use	SetP	nt	Cons	ervation	
		1		Propan	ø	Tankless	Main	0.59	1 g		-	40 gal	120 d	eg	١	lone	
	**********			<u>"</u>	 		SOL	AR HOT W	ATEF	SYS	TE	M				,	
V	/	FSE Cert		Com	pany Na	me		System Mode	l #	·····	Col	lector Mo	odel#	Collector Area	Storag Volum		FEF .
<u></u>		Nor	.,,,,,,,,,,,	None	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ft²			
				4111			*** <u></u>			- contract				·			

TEMPERATURES														
Programa	ble Thermos	stat: Y			C	eiling Fans	·						National Control of the Control of t	
Cooling Heating Venting	X Jan X Jan Jan	X Feb	[] Mar [X] Mar [X] Mar	M AF	ir ir	May May May	X Jun Jun Jun	Jul lub Jul	[X] Aug Aug Aug	[X] Sep Sep Sep		Oct Oct X Oct	X Nov X Nov X Nov	Dec Dec Dec
Thermostat Schedule T		HERS 200	3 Reference 1	2	3	4	5	6 Hou	irs 7	8	9	10	11	12
Cooling (Wi	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 (Wi	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

FORM 405-10

Florida Code Compliance Checklist
Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS: 252 SW Voy	man Ct	PERMIT	41.
ADDITION, AUG DVV VO	ager or	L CLIMINI	11.
Latin Other P	1 0000		
Lake City, F	L, 3205 -		

MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	V
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	/
Ducts	403.2.2	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code.	
	403.3.3	Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	/
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	V
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	NA
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	/
Cellings/knee walls	405.2.1	R-19 space permitting.	