- FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

The second secon			
Project Name Mowry Residence Street SW Dusk Glen City, State, Zip: Lake City, FL, 32024- Owner: Dale & Whitney Mowry Design Location FL, Gainesville		Builder Name: Bryan Zecher Construction Permit Office: Columbia County Permit Number: Jurisdiction: 221000	ก
	"	9. Wall Types (2070.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (2516.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a Sup: Attic, Ret: Attic, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric b. Conservation features None 15 Credits	Insulation Area R=19.0 1854.00 ft² R=19.0 216.00 ft² R= ft² R= ft² Insulation Area R=19.0 2516.00 ft² R= ft² R= ft² R= ft² R ft² 6 503.2 kBtu/hr Efficiency 35 0 SEER:15.00 kBtu/hr Efficiency 35.0 HSPF:7 70 Cap' 40 gallons EF: 0.920 CF, Pstat
L Glass/Floor Area: U.TT/	Total Proposed Modified otal Standard Reference		PASS
I hereby certify that the plans and specification calculation are in compliance with the Code. PREPARED BY: DATE: I hereby certify that this building, as design with the Florida Energy Code. OWNER/AGENT: DATE:	Florida Energy	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	Elarida Air Darriar and b	noviation Inspection Chacklist	, goldfordans

requires completion of a Florida Air Barrier and Insulation Inspection Checklist

- Heat sys #1 may be undersized. Size of 35.0 was increased to 38.1 for simulation. Please review the Manual DR

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Received

					PROJEC'		Walder Company of the	<u> </u>				
Title: Building Owner # of Uni Builder I Permit C Jurisdict Family 1 New/Ext	its: Name Office [*] tion. Type: isting.	Mowry Reside User Dale & Whitne 1 Bryan Zecher Columbia Cou 221000 Single-family New (From Pla	y Mowry Construction nty	Bedrooms. Conditioned Total Storie Worst Case Rotate Ang Cross Vent	s: 1 e: No le: 0 llation	16		Address T Lot # Block/Sub PlatBook. Street: County: City, State	Division.	Street Ad SW Dusk Columbia Lake City FL , 3:	Glen	
	The state of the s		711100	100000	CLIMATE			a de la companya de l	······································		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
V	Desiç	n Location	TMY Site	IEC Zon		јп Тетр % 2.5 %	Int Desig Winter		Heating Degree Da			ally Temp Range
	FL, C	Sainesville	FL_GAINESVILLE	_REGI 2	32	92	70	75	1305,5	5	1	Medium
			100000000		BLOCKS	}						
Numb	er	Name	Area	Volume								
1		Block1	2516	22644					The second secon			
			AND		SPACES)						
Numb	er	Name	Area	Volume K	(itchen O	ccupants	Bedrooms	Infil (C) Finish	ed C	ooled	Heated
1		Main	2516	22644	Yes	2	3	1	Yes	Υ	'es	Yes
			F87/111		FLOORS	;	muqua, w					
<u> </u>		Floor Type	Space	Perin	***************************************	Value	Area				Wood	Carpet
	1 Slab	-On-Grade Edge	insulatio Ma	ain 192	ft	0	2516 ft²	****		0.2	05	0.3
				***************************************	ROOF							•
<u> </u>	# .	Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Decl Insu	
	1	Hip	Composition shing	les 2914 ft²	0 ft²	Medium	0.96	No	0.9	No	0	30.3
					ATTIC							
V	#	Туре	Ventila	ation	Vent Ratio (1 in)	Area	RBS	IRCC			
	1	Full attic	Vent	ed	300	2	2516 ft²	N	N			
					CEILING)		<u>, </u>	The Control of the Co			
\checkmark	#	Ceiling Type		Space	R-Value	A۱	rea	Framing	Truss Type			
	1	Under Attic (V	ented)	Main	19	25	16 ft²	0.1	1		Wood	

							WA	LLS								
$\sqrt{4}$	L_Ornt	}	Adjace To		Туре	Space	Cavity R-Value	Wid	th 	Ft.	leight In	Area.	Sheathing R-Value	Framing Eraction	Solar Absor	
1	s		Exterior		me - Wood	Main	19	40	0	9	0	360 ft²		0.23	0.75	0
2	: W		Exterior	Frai	me - Wood	Main	19	58	0	9	0	522 ft²		0.23	0.75	0
3	N N		Exterior	Frai	me - Wood	Main	19	64	0	9	0	576 ft²		0.23	0.75	0
4	E		Exterior	Frai	me - Wood	Main	19	44	0	9	0	396 ft²		0 23	0.75	0
5	s	1	Garage	Frai	me - Wood	Main	19	24	0	9	0	216 ft²		0.23	0.75	0
					A CONTRACTOR OF THE CONTRACTOR		DO	ORS			The state of the s					THE CASE OF THE CA
V	#		Ornt		Door Type	Space			Storms	·	U-Value		Width Ft In	Heigh Ft	t In	Area
	. 1		S		Insulated	Main		·	Metal		0,46000	0	5 0	8	0	40 fl²
	. 2		s		Insulated	Main			Metal		0.46000	0	5 0	8	0	20 ft²
	. 3		N		Insulated	Main			Metal		0.46000	0	5 0	8	0	20 ft²
	. 4		N		Insulated	Main			Metal		0.46000	0	5 0	8	0	20 ft²
					Orie	entation sho	WIN	DOWS		d A	rientation					C WITHIN TO THE
/			Wall	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		J. 1101(0)1 (J. 1)	aven to title of	illered, i	100030	u v	norreamon.		erhang			
V	#	Orr		Frame	Panes	NFRC	U-Factor	SHGC			Area		Separation	Int Sh	ade	Screenin
	. 1	S	1	Vinyl	Low-E Double	Yes	0.55	0.5		(30.44444	2 ft 0 in	0 ft 4 in	Drapes/	olinds	None
	. 2	S	1	Vinyl	Low-E Double	Yes	0 55	0.5			12 ft²	2 ft 0 in	0 ft 4 in	Drapes/	blinds	None
	. 3	W	2	Vinyl	Low-E Double	Yes	0.55	0.5		;	39.66666	2 ft 0 in	0 ft 4 in	Drapes/	blinds	None
	, 4	W	2	Vinyl	Low-E Double	Yes	0.55	0,5			9.777777	2 ft 0 in	0 ft 4 in	Drapes/	blinds	None
	. 5	W	2	Vinyl	Low-E Double	Yes	0.55	0.5			8 ft²	2 ft 0 ln	0 ft 4 ln	Drapes/	blinds	None
······	. 6	Ν	3	Vinyl	Low-E Double	Yes	0 55	0.5			75 55555	2 ft 0 in	0 ft 4 in	Drapes/	blinds	None
~1.A\=1*==	. 7	N	3	Vinyl	Low-E Double	Yes	0.55	05		1	89.44444	2 ft 0 in	0 ft 4 in	Drapes/	blinds	None
						,	GAI	RAGE				(1)	u). Az ez en la mante en la la mante en la mante e			
V	#		Floo	r Area	Celling	Area	Exposed \	∕Vall Per	lmeter		Avg. Wa	ll Helgh	Expose	ed Wall In	sulation	
	. 1	www	72	O ft²	720	ft²		84 ft			9	ft		1		
							INFILT	RATIO	N							
!	Scope		N	/lethod		SLA	CFM 50	ELA	· · · <u> </u>	Eql	 _A	ACH	ACI	- ∤ 50		•
W	holehous	se	Best	Guess	0.00	0500	3299,7	181.15		340		0.3850	8.7	433		. Print Care Community of Commu
							HEATING	3 SYS	TEM		1-1					
\checkmark	#	8	System T	уре	Sul	btype			Efficier	ю	C	apacity			Block	Ducts
	1	E	lectric I-	leat Pur	np No	ne		·····	HSPF:			kBtu/hr			1	sys#1

•					COO	LING SYS	STEM				unite de la constitución de la cons		
V	# Sy	/stem Type		Subtype			Efficiency	Capacity	Air F	low	SHR	Block	Ducts
	1 C	entral Unit		Split			SEER: 15	35 kBtu/hi	1050	ofm	0.75	1	sys#1
					и тон	ATER S	STEM						
	#	System Type	SubType	Locati	on EF	C	ap	Use	SetPnt		Co	nservatio	n
	1	Electric	None	Garag	e 0.92	40	gal	60 gal	120 deg			None	
				5	OLAR HO	T WATE	RSYSTI	EM					
V	FSEC Cert #	Company N	ame		System	Model#	C	ollector Mode		llector \rea	Stor Volu		FEF
	None	None		1, 4, 114, 114, 114, 114, 114, 114, 114			**************************************			ft²			
arenamentari di maran			1172			DUCTS	ani ana ani ani ani ani ani ani ani ani	On the Control of the	A				J DEFINISHENCE
. ^	#	Supp Location R-	oly -Value Area	Local	Return tion Area	Leake	ge Type	Air Handler	CFM 25	Perce Leaks	ent ige QN	RLF	HVAC#
	1	Attic	6 503.2 f	t Atti	c 125.8 f	t Defauli	Leakage	Main	(Default)	(Defau	ılt) %		1 1
					TEM	PERATU	RES						
Program	nable Then	mostat Y			Ceiling Fan	s:							1011
Cooling Heating Venting	X Jan X Jan Jan	X Feb Feb Feb	Mar X Mar X Mar	Apr Apr X Apr	[] May [] May [] May	(X) Jun Jun Jun	[X] Jul Jul Jul	[X] Aug Aug Aug	[X] Sep Sep Sep		Oct Oct Oct	X Nov X Nov X Nov	X Dec Dec Dec
Thermosta Schedule	at Schedul Type	e: HERS 200	36 Reference	2	3 4	5	H 6	ours 7	8	9	10	11	12
Cooling (V		AM PM	78 80		78 78 78 78	78 78	78 78	78 78 78	78 78	80 78	80 78	80 78	80 78
Cooling (WEH)		AM	78 78		76 78 78 78 78 78	78 78 78	78 78 78	78 78 78	78 78 78	78 78 78	78 78 78	78 78 78	78 78 78
-leating (V	VD)	AM PM	66 68	66 68	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (V	VEH)	AM PM	66 68	66 68	66 66 68 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:	SW Dusk Glen	PERMIT #:
	Lake City, FL, 32024-	

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.	V
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.	V
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.	
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.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

EnergyGauge® USA - FlaRes2010 Section 405.4.1 Compliant Software