FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Sample Addition Street: 346 Main Street City, State, Zip: Orlando , FL , 32922- Owner: OWNER Design Location: FL, Orlando		Builder Name: BUILDER Permit Office: Permit Number: Jurisdiction:	
71		9. Wall Types (405.0 sqft.) a. Concrete Block - Int Insul, Exterior b. N/A c. N/A d. N/A 10. Ceiling Types (500.0 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 - None (Baseline as a. Electric b. Conservation features None 15. Credits	Insulation Area R=5.0
Glass/Floor Area: 0.120	Total Proposed Modifie Total Baselin	d Loads: 13.89 e Loads: 17.57	PASS
I hereby certify that the plans and specificathis 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:	

				PROJE	СТ						
Title: Building Type: Owner: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Sample Addition FLProp2010 OWNER 1 BUILDER Single-family Addition	n	Bedrooms Conditione Total Stori Worst Cas Rotate And Cross Ven Whole Hor	ed Area: es: es: gle: dilation:	3 500 1 No 0		Adress Ty Lot # Block/Sub PlatBook: Street: County: City, State	oDivision:	Street Ad 346 Mair Orange Orlando FL,	n Street	
				CLIMA	ΓΕ						
	gn Location	TMY Site	IE0 Zo		sign Temp 5 % 2.5 %	Int Desig Winter		Heating Degree Da		-	ily Temp Range
FL	., Orlando	FL_ORLANDO_IN	ΓL_AR	2 4	1 91	75	70	526	4	4	Medium
				BLOCK	(S						
Number	Name	Area	Volume								
1	Block1	500	4000								
				SPACE	S						
Number	Name	Area			Occupants	Bedrooms			ooled	Heated	
1	Main	500	4000	Yes	4	3	1	Y	es	Yes	
/				FLOOR	RS						
•	Floor Type Slab-On-Grade Ed	Room	Perimete 45		Value 0	Area 500 ft ²			Tile 1	Wood 0	Carpet 0
<u> </u>		ago modiado Main		ROOF		000 11			•		
/			Roof	Gable		Solar	SA	Emitt	Emitt	Deck	Pitch
√ #	Туре	Materials	Area	Area	Color	Absor.	Tested		Tested	Insul.	(deg)
1	Hip	Composition shingl	es 542 ft²	O ft²	Medium	0.96	No	0.9	No	0	22.6
				ATTIC	;						
√ #	Туре	Ventila	ation	Vent Ratio	(1 in)	Area	RBS	IRCC			
1	Full attic	Vent	ed	300		500 ft²	N	N			
				CEILIN	G						
V #	Ceiling Type		Space	R-Value	Aı	·ea	Framing	Frac	Truss Type		
1	Under Attic (Ver	nted)	Main	30	50	00 ft²	0.1	1		Wood	

					WA	LLS							
	# Ornt 1 SE 2 SW	Exterior Concre	Type ete Block - Int Insul ete Block - Int Insul	Space Main Main	Cavity R-Value 5	Wid Ft 20 25	_lnl	Height Ft In 9	Area 180 ft² 225 ft²	Sheathing R-Value	Framing Fraction 0	Solar Absor 0.6 0.6	
					DO	ORS							
\vee	#	Ornt	Door Type	Space			Storms	U-Va	alue F	Width t In	Height Ft	In	Area
	1	SE	Wood	Main			None	0.460	0000 2.	8	6.7	1	8.75999
			Orie	entation sho	WINE wn is the en	OWS		orientatio	nn				
\/		0							Ove	rhang	1 : 0:		
V	# 1	Ornt Frame SE Metal	Panes Low-E Double	NFRC Yes	U-Factor 0.55	0.35	Storms N	Area 30 ft ²		Separation 1 ft 0 in	Int Sha HERS 2		Screening None
	2	SW Metal		Yes	0.55	0.35	N	30 ft ²		1 ft 0 in	HERS 2		None
					INFILT	RATIC	N						
#	Scope	Method	S	SLA (CFM 50	ELA	E	qLA	ACH	ACI	H 50		
1	BySpaces	Best Guess	0.000	500	655.75	36	67	7.703	0.3650	9.8	363		
					HEATING	SYS	TEM						
\vee	#	System Type	Sub	type			Efficienc	у	Capacity		E	Block	Ducts
	_ 1	Electric Heat Pu	mp Non	ne			HSPF: 7.	7 (6.5 kBtu/hr			1	sys#1
					COOLING	SYS	TEM						
\bigvee	#	System Type	Sub	type		Е	fficiency	Capa	acity A	ir Flow S	HR E	Block	Ducts
	_ 1	Central Unit	Spli	t		5	SEER: 16	8.8 kB	Stu/hr 36	60 cfm C).75	1	sys#1
				Н	OT WATE	R SY	STEM						
\vee	#	System Type			EF	Ca	р	Use	SetPr	nt	Conse	rvation	
	1	Electric			0.92	40 g	al	60 gal	120 de	g	No	ne	
				SOLA	R HOT W	ATER	SYSTI	EM					
\bigvee	FSE Cert		ame	5	System Mod	el#	C	ollector M		Collector Area	Storage Volume	F	EF
	Non	e None								ft²			

							DUCTS								
\checkmark	#		Supply Location R-Value Area		Return Location Area		Leaka	Leakage Type		CFM 25	Percent Leakage	QN	QN RLF	HV. Heat	AC # Cool
	1	Attic	6 10	00 ft²	Attic	25 ft²	DS	E=0.88	Main	0.0 cfm	0.00 %	0.00	0.60	1	1
						TEM	PERATU	IRES							
Programa	able Therr	mostat: Y			С	Ceiling Fan	s:								
Cooling Heating Venting	[X] Jan [X] Jan [X] Jan	[X] Fe [X] Fe [X] Fe	b [X] M b [X] M b [X] M	lar [X] lar [X] lar [X]	Apr Apr Apr	[X] May [X] May [X] May	[X] Jun [X] Jun [X] Jun	[X] Jul [X] Jul [X] Jul	[X] Aug [X] Aug [X] Aug	[X] Sep [X] Sep [X] Sep	[X] 0 [X] 0 [X] 0	ct ct ct	[X] Nov [X] Nov [X] Nov	[X] [X]	Dec Dec Dec
Thermostat	Schedule	e: HERS 2	2006 Refere	ence				Но	urs						
Schedule T	уре		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	8	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	7	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	6	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

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

ADDRESS: 346 Main Street PERMIT #:

Orlando, FL, 32922-

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.	
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.	
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.	
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.	