FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:Sample AdditionStreet:346 Main StreetCity, State, Zip:Orlando , FL , 3292Owner:OWNERDesign Location:FL, Orlando	2-	Builder Name: BUILDER Permit Office: Permit Number: Jurisdiction:	
1. New construction or existing	Addition	9. Wall Types(405.0 sqft.)	Insulation Area
2. Single family or multiple family	Single-family	a. Concrete Block - Int Insul, Exterior	R=5.0 405.00 ft ²
3. Number of units, if multiple family	1	b. N/A	R= ft ²
 Number of Bedrooms(Bedrms In Additional Strength Strengt Strength Strength Strength Strength Strength Strength Stren		c. N/A d. N/A	R= ft ² R= ft ²
· ·	, , ,	10. Ceiling Types (500.0 sqft.)	Insulation Area
5. Is this a worst case?	No	a. Under Attic (Vented)	R=30.0 500.00 ft ²
6. Conditioned floor area above grade (ft ²		b. N/A c. N/A	$\begin{array}{l} R=\qquad\qquad ft^2\\ R=\qquad\qquad ft^2 \end{array}$
Conditioned floor area below grade (ft ²)) 0	11. Ducts	R ft ²
7. Windows(60.0 sqft.) Description a. U-Factor: Dbl, U=0.55 SHGC: SHGC=0.35	Area 60.00 ft²	a. Sup: Attic, Ret: Attic, AH: Main	6 100
b. U-Factor: N/A	ft²	12. Cooling systems	kBtu/hr Efficiency
SHGC:		a. Central Unit	8.8 SEER:16.00
c. U-Factor: N/A	ft²		
SHGC:	(12	13. Heating systems	kBtu/hr Efficiency
d. U-Factor: N/A SHGC:	ft²	a. Electric Heat Pump	6.5 HSPF:7.70
Area Weighted Average Overhang Dep Area Weighted Average SHGC:	oth: 1.000 ft. 0.350	14. Hot water systems - None (Baseline a	
8. Floor Types (500.0 sqft.)	Insulation Area	a. Electric	Cap: N/A
a. Slab-On-Grade Edge Insulation	R=0.0 500.00 ft ²	b. Conservation features	EF: 0.92
b. N/A	R= ft ²	None	
c. N/A	R= ft ²	15. Credits	Pstat
Glass/Floor Area: 0.120	Total Proposed Modifie Total Baselii	ed Loads: 13.89 ne Loads: 17.57	PASS
I hereby certify that the plans and spetthis calculation are in compliance with Code. PREPARED BY:	n the 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.	THE STATE OF THE S
OWNER/AGENT: DATE:		BUILDING OFFICIAL:	

				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		Bedrooms: Conditione Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	d Area: es: e: Jle: tilation:	3 500 1 No 0		Adress Ty Lot # Block/Sut PlatBook: Street: County: City, State	Division:	Street Ad 346 Main Orange Orlando , FL , 3	Street		
				CLIMA	TE							
V Desi	gn Location	TMY Site	IEC Zor		esign Temp 5 % 2.5 %	Int Desig Winter	ın Temp Summer	Heating Degree Da		ign Dai ture F	ly Temp Range	
FL	., Orlando	FL_ORLANDO_INT	L_AR 2	2 4	1 91	75	70	526	4	4 1	Medium	
				BLOC	٢S							
Number	Name	Area	Volume									
1	Block1	500	4000									
				SPACE	ES							
Number	Name	Area	Volume k	Kitchen	Occupants	Bedrooms	Infil II	D C	ooled	Heated		
1	Main	500	4000	Yes	4	3	1	Y	es	Yes		
				FLOOF	RS							
√ #	Floor Type	Room	Perimete	er R	-Value	Area			Tile	Wood C	Carpet	
1	Slab-On-Grade Ed	ge Insulatio Main	45 1	ft	0	500 ft ²			1	0	0	
				ROO	F							
V #	Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitc (deg	
1	Hip	Composition shingle	es 542 ft ²	0 ft ²	Medium	0.96	No	0.9	No	0	22.6	
				ATTI	C							
V #	Туре	Ventila	tion	Vent Ratio	o (1 in)	Area	RBS	IRCC				
1	Full attic	Vente	ed	300		500 ft²	Ν	Ν				
				CEILIN	IG							
/ #	Ceiling Type		Space	R-Value	R-Value Area			Frac	Truss Type			
1	Under Attic (Ven	ted)	Main	30	50	00 ft ²	0.1	1	,	Wood		

					WA	LLS							
\checkmark	# Ornt			Space	Cavity R-Value		_InF	• •••	Area	Sheathing R-Value	Fraction	Solar Absor.	
	1 SE 2 SW		ete Block - Int Insul	Main Main	5 5	20 25	9 9		180 ft ² 225 ft ²		0 0	0.6 0.6	0 0
	_ 2 011			Main			0		EE0 K		0	0.0	
. /			D T		DO	ORS	<u></u>			Width	Llaight		
V	#	Ornt	Door Type	Space			Storms	U-Val	ue F		Height Ft	In	Area
	1	SE	Wood	Main			None	0.4600	000 2.	8	6.7	18	8.75999
			Orie	entation sho	WINI wn is the er	DOWS		orientatio	n.				
./		a . . .					i de la companya de la compa		Ove	rhang			. .
V	# 1	Ornt Frame SE Metal		NFRC Yes	U-Factor 0.55	0.35	Storms N	Area 30 ft ²	Depth 1 ft 0 in	Separation 1 ft 0 in	Int Sha HERS 2		Screenir 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	Ec	ιLA	ACH	ACI	H 50		
1	BySpaces	Best Guess	0.000	500	655.75	36	67.	703	0.3650	9.8	363		
					HEATING	G SYS	ТЕМ						
\checkmark	#	System Type	Sub	otype			Efficiency		Capacity		E	Block	Ducts
	1	Electric Heat Pu	imp Nor	ne			HSPF: 7.7	7 6	.5 kBtu/hr			1	sys#1
					COOLING	g sys	ТЕМ						
\checkmark	#	System Type	Sub	otype		E	Efficiency	Capac	city A	ir Flow S	HR E	Block	Ducts
	1	Central Unit	Spli	it		5	SEER: 16	8.8 kBt	u/hr 36	60 cfm 0	.75	1	sys#1
				H	ΟΤ ΨΑΤΙ	ER SY	STEM						
\checkmark	#	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	SYSTE	M					
\checkmark	FSE Cert				System Mod	lal #	0-	llector Mo		Collector Area	Storage Volume	-	ΈF
	Cerr	# Company N	ame		SVSLEITI IVIOC	1H #		meciorivia	UUEL#	Area	volume	- F	CL

							DUCTS								
\checkmark	# [Supply Location R-Value Area			Return Location Area			Air Leakage Type Handle		CFM 25	Percent Leakage QN		RLF	HVAC # Heat Cod	
	1	Attic	6 10	0 ft²	Attic	25 ft ²	DS	E=0.88	Main	0.0 cfm	0.00 %	0.00	0.60	1	1
						TEM	PERATU	IRES							
Program	able Therm	nostat: Y			Ce	eiling Fan	S:								
Cooling Heating Venting	[X] Jan [X] Jan [X] Jan	X Fe X Fe X Fe	b [X] Ma b [X] Ma b [X] Ma	ar [X] A ar [X] A ar [X] A	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] Ser [X] Ser [X] Ser		ct ct ct	[X] Nov [X] Nov [X] Nov	X X X	Dec Dec Dec
Thermosta	t Schedule	: HERS 2	2006 Refere	nce				Но	urs						
Schedule 7	Гуре		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	4	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	-	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

Florida Code Compliance Checklist Florida Department of Business and Professional Regulations

Residential Whole Building Performance Method

ADDRESS:	346 Main Street
	Orlando, FL, 32922-

PERMIT #:

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.	