

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

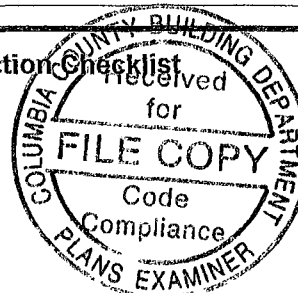
Project Name New Project Street. City, State, Zip: , FL , Owner Design Location FL, Gainesville	Builder Name. MIKE ROBERTS Permit Office: Permit Number. Jurisdiction:
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Glass/Floor Area: 0.086	Total Proposed Modified Loads: 28.31	PASS
	Total Standard Reference Loads: 35.26	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>[Signature]</u> DATE: <u>3-7-13</u> 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: _____
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- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist



PROJECT												
Title:	New Project	Bedrooms:	3	Address Type:	Street Address							
Building Type:	FLProp2010	Conditioned Area:	6072	Lot #								
Owner:		Total Stories:	1	Block/SubDivision:								
# of Units:	1	Worst Case:	No	PlatBook:								
Builder Name:	MIKE ROBERTS	Rotate Angle:	0	Street:								
Permit Office		Cross Ventilation:		County:	COLUMBIA							
Jurisdiction		Whole House Fan		City, State, Zip	, FL,							
Family Type	Single-family											
New/Existing:	New (From Plans)											
Comment:												
CLIMATE												
✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range		
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	70	75	1305 5	51	Medium		
BLOCKS												
	Number	Name	Area	Volume								
	1	Block1	1508	12064								
SPACES												
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated	
	1	RoomsInBlock1	1508	12064	Yes	3	3	1	Yes	Yes	Yes	
FLOORS												
✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet		
_____	1	Slab-On-Grade Edge Insulation	RoomsInBlock1	168 ft	0	1508 ft²	_____	0	0	1		
ROOF												
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul	Pitch (deg)
_____	1	Gable or shed	Composition shingles	1633 ft²	314 ft²	Medium	0.96	No	0.9	No	0	22.6
ATTIC												
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC					
_____	1	Full attic	Vented	300	1508 ft²	N	N					
CEILING												
✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Vented)	RoomsInBlock1	38	1508 ft²	0.11	Wood					

WALLS															
✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
✓	1	N	Exterior	Frame - Wood	RoomsInBlock	13	38		8		304 ft²		0.23	0.75	0
✓	2	N	Garage	Frame - Wood	RoomsInBlock	13	20		8		160 ft²		0.23	0.01	0
✓	3	E	Exterior	Frame - Wood	RoomsInBlock	13	26		8		208 ft²		0.23	0.75	0
✓	4	S	Exterior	Frame - Wood	RoomsInBlock	13	58		8		464 ft²		0.23	0.75	0
✓	5	W	Exterior	Frame - Wood	RoomsInBlock	13	26		8		208 ft²		0.23	0.75	0

DOORS											
✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
✓	1	N	Insulated	RoomsInBlock	None	0.460000	3		6	8	20 ft²
✓	2	N	Insulated	RoomsInBlock	None	0.460000	3		6	8	17.77777
✓	3	S	Insulated	RoomsInBlock	None	0.460000	3		6	8	36.66666

WINDOWS														
Orientation shown is the entered, Proposed orientation.														
✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Separation	Int Shade	Screening
✓	1	N	1	Metal	Double (Clear)	Yes	0.52	0.29	N	40 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
✓	2	N	1	Metal	Double (Clear)	Yes	0.52	0.29	N	13 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
✓	3	E	3	Metal	Double (Clear)	Yes	0.52	0.29	N	30 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
✓	4	S	4	Metal	Double (Clear)	Yes	0.52	0.29	N	6 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
✓	5	S	4	Metal	Double (Clear)	Yes	0.52	0.29	N	40 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None

GARAGE						
✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg Wall Height	Exposed Wall Insulation
✓	1	440 ft²	440 ft²	64 ft	8 ft	1

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	BySpaces	Proposed SLA	0.000360	1423.98	78.1747	147.019	0.27719	7.08214

HEATING SYSTEM							
✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump	None	HSPF 8	30 kBtu/hr	1	sys#1

COOLING SYSTEM									
✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit	None	SEER 13	28 kBtu/hr	840 cfm	0.75	1	sys#1

HOT WATER SYSTEM													
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation				
_____	1	Electric	None	Garage	0.96	40 gal	60 gal	120 deg	None				

SOLAR HOT WATER SYSTEM							
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS													
✓	#	--- Supply ---		--- Return ---		Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area						Heat	Cool
_____	1	Attic	6	301.6 ft²	Attic	75.4 ft²	DSE=0.88	Garage	0.0 cfm	0.00 %	0.00	0.60	1 1

TEMPERATURES																								
Programable Thermostat Y				Ceiling Fans																				
Cooling	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Heating	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Venting	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Thermostat Schedule.		HERS 2006 Reference																						
Schedule Type			1	2	3	4	5	6	7	8	9	10	11	12										
Cooling (WD)	AM		78	78	78	78	78	78	78	78	80	80	80	80										
	PM		80	80	78	78	78	78	78	78	78	78	78	78										
Cooling (WEH)	AM		78	78	78	78	78	78	78	78	78	78	78	78										
	PM		78	78	78	78	78	78	78	78	78	78	78	78										
Heating (WD)	AM		66	66	66	66	66	68	68	68	68	68	68	68										
	PM		68	68	68	68	68	68	68	68	68	68	66	66										
Heating (WEH)	AM		66	66	66	66	66	68	68	68	68	68	68	68										
	PM		68	68	68	68	68	68	68	68	68	68	66	66										

Florida Code Compliance Checklist

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

ADDRESS: _____, FL,	PERMIT #: _____
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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.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 80

The lower the EnergyPerformance Index, the more efficient the home.

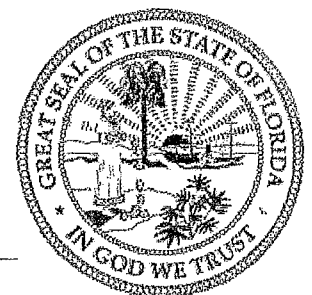
, , FL,

1 New construction or existing	New (From Plans)	9 Wall Types	Insulation	Area
2 Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=13 0	1184 00 ft²
3 Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13 0	160 00 ft²
4 Number of Bedrooms	3	c. N/A	R=	ft²
5 Is this a worst case?	No	d. N/A	R=	ft²
6 Conditioned floor area (ft²)	6072	10. Ceiling Types	Insulation	Area
7 Windows**	Description	a. Under Attic (Vented)	R=38 0	1508 00 ft²
a U-Factor	DbI, U=0.52	b. N/A	R=	ft²
SHGC	SHGC=0.29	c. N/A	R=	ft²
b U-Factor	N/A	11 Ducts		R ft²
SHGC		a. Sup. Attic, Ret: Attic, AH Garage	6	301 6
c U-Factor	N/A	12. Cooling systems	kBtu/hr	Efficiency
SHGC		a. Central Unit	28 0	SEER 13 00
d U-Factor	N/A	13. Heating systems	kBtu/hr	Efficiency
SHGC		a. Electric Heat Pump	30 0	HSPF 8 00
Area Weighted Average Overhang Depth	2 000 ft	14 Hot water systems	Cap	40 gallons
Area Weighted Average SHGC	0.290	a. Electric	EF	0.96
8 Floor Types	Insulation	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=	15 Credits		Pstat
c. N/A	R=			

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.