

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

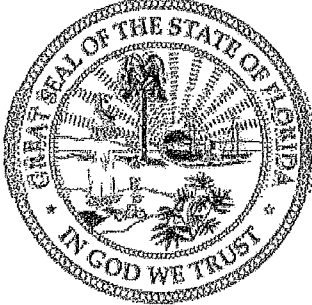
Florida Department of Business and Professional Regulation - Residential Performance Method

<p>Project Name New Project ROBERTS 2 Street City, State, Zip , FL, Owner Design Location FL, Gainesville</p>	<p>Builder Name MIKE ROBERTS Permit Office Permit Number Jurisdiction</p>
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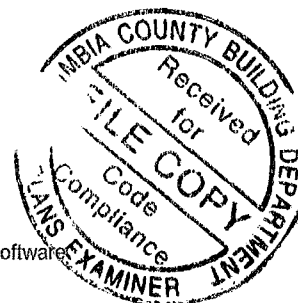
<p>1 New construction or existing New (From Plans) 2 Single family or multiple family Single-family 3 Number of units, if multiple family 1 4 Number of Bedrooms 3 5 Is this a worst case? No 6 Conditioned floor area above grade (ft²) 1495 Conditioned floor area below grade (ft²) 0 7 Windows (155 0 sqft) Description Area a U-Factor Dbl, U=0 52 155 00 ft² SHGC SHGC=0.29 b U-Factor N/A ft² SHGC c U-Factor N/A ft² SHGC d U-Factor N/A ft² SHGC Area Weighted Average Overhang Depth 2 000 ft Area Weighted Average SHGC 0 290 8. Floor Types (1495.0 sqft.) Insulation Area a Slab-On-Grade Edge Insulation R=0 0 1495 00 ft² b N/A R= ft² c N/A R= ft²</p>	<p>9 Wall Types (1440 0 sqft) Insulation Area a Frame - Wood, Exterior R=13 0 1269 00 ft² b Frame - Wood, Adjacent R=13.0 171.00 ft² c N/A R= ft² d N/A R= ft² 10 Ceiling Types (1495 0 sqft) Insulation Area a Under Attic (Vented) R=38 0 1495 00 ft² b N/A R= ft² c N/A R= ft² 11 Ducts R ft² a Sup Attic, Ret Attic, AH Garage 6 299 12 Cooling systems kBtu/hr Efficiency a Central Unit 28 0 SEER 13 00 13 Heating systems kBtu/hr Efficiency a Electric Heat Pump 29 0 HSPF 7 70 14. Hot water systems a Electric Cap 40 gallons EF 0 960 b Conservation features None 15 Credits Pstat</p>
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Glass/Floor Area. 0 104	Total Proposed Modified Loads. 28.51	PASS
	Total Standard Reference Loads. 35.50	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code</p> <p style="text-align: right;">COAST INSULATORS 25 NW 253rd Terrace Newberry, FL 32669 (352) 472-8695 Fax (352) 472-2633</p> <p>PREPARED BY: _____ DATE: 3-7-13</p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code</p> <p>OWNER/AGENT: _____ DATE: _____</p>	<p>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</p> <p style="text-align: right;">BUILDING OFFICIAL. _____ DATE: _____</p>
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- Compliance requires completion of a *Florida Air Barrier and Insulation Inspection Checklist*



PROJECT

Title	New Project ROBERTS 2	Bedrooms	3	Address Type	Street Address
Building Type	FLProp2010	Conditioned Area	1495	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	1495	13455

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	RoomsInBlock1	1495	13455	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	176 ft	0	1495 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	1619 ft²	312 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	1495 ft²	N	N

CEILING

	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	RoomsInBlock1	38	1495 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	Garage	Frame - Wood	RoomsInBlock	13	19		9		171 ft²		0 23	0 01	0
	2	N	Exterior	Frame - Wood	RoomsInBlock	13	32		9		288 ft²		0 23	0 75	0
	3	E	Exterior	Frame - Wood	RoomsInBlock	13	36		9		342 ft²		0 23	0 75	0
	4	S	Exterior	Frame - Wood	RoomsInBlock	13	50		9		450 ft²		0 23	0 75	0
	5	W	Exterior	Frame - Wood	RoomsInBlock	13	21		9		189 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	2	8	6	8	17 77777
	2	N	Insulated	RoomsInBlock	None	0 460000	2	8	6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation

✓	#	Ornt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Separation	Int Shade	Screening
	1	N	2	Metal	Double (Clear)	Yes	0 52	0 29	N	60 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
	2	E	3	Metal	Double (Clear)	Yes	0 52	0 29	N	4 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
	3	S	4	Metal	Double (Clear)	Yes	0 52	0 29	N	40 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
	4	S	4	Metal	Double (Clear)	Yes	0 52	0 29	N	45 ft²	2 ft 0 in	6 ft 0 in	HERS 2006	None
	5	W	5	Metal	Double (Clear)	Yes	0 52	0 29	N	6 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	418 ft²	418 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	BySpaces	Proposed SLA	0 000360	1411 70	77 5008	145 751	0 27719	6 29523

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
	1	Electric Heat Pump	None	HSPF 7 7	29 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

✓	#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC # Heat	Cool
✓	1	Attic	6	299 ft²	Attic	74.75 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	78	80	80	80	80	
	PM	80	80	78	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	78	
	PM	78	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	68	
	PM	68	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	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66	

ADDRESS _____ PERMIT #: _____
_____, FL, _____

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	403.2.2 403.3.3	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. 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.

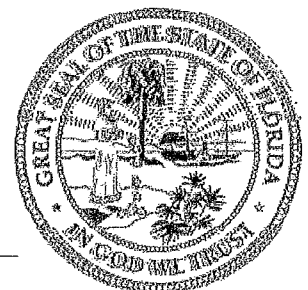
, , FL,

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	1269 00 ft ²
3 Number of units, if multiple family	1		b Frame - Wood, Adjacent	R=13 0	171 00 ft ²
4 Number of Bedrooms	3		c N/A	R=	ft ²
5 Is this a worst case?	No		d N/A	R=	ft ²
6 Conditioned floor area (ft ²)	1495		10 Ceiling Types	Insulation	Area
7 Windows**	Description	Area	a Under Attic (Vented)	R=38 0	1495 00 ft ²
a U-Factor	Dbl, U=0 52	155 00 ft ²	b N/A	R=	ft ²
SHGC	SHGC=0 29		c N/A	R=	ft ²
b U-Factor	N/A	ft ²	11 Ducts		R ft ²
SHGC			a Sup Attic, Ret: Attic, AH Garage		6 299
c U-Factor	N/A	ft ²	12 Cooling systems	kBtu/hr	Efficiency
SHGC			a Central Unit	28 0	SEER 13 00
d U-Factor	N/A	ft ²	13 Heating systems	kBtu/hr	Efficiency
SHGC			a Electric Heat Pump	29 0	HSPF 7 70
Area Weighted Average Overhang Depth	2 000 ft		14 Hot water systems		
Area Weighted Average SHGC	0 290		a Electric		Cap: 40 gallons
8 Floor Types	Insulation	Area			EF 0 96
a Slab-On-Grade Edge Insulation	R=0 0	1495 00 ft ²	b Conservation features		
b N/A	R=	ft ²	None		
c N/A	R=	ft ²	15 Credits		Pstat

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.