

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name      Dyal Road Home 2 Street City, State, Zip      , FL , Owner Design Location      FL, Gainesville		Builder Name      Thomas Construction of Lake Ci Permit Office Permit Number Jurisdiction      Columbia County	
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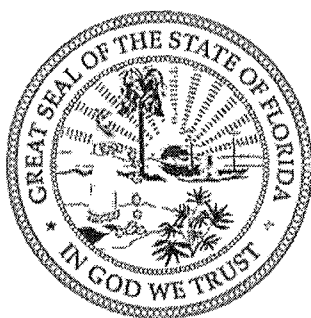
  

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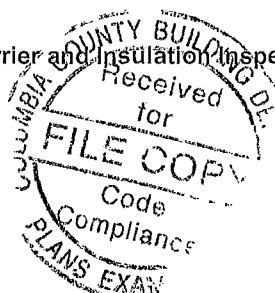
  

Glass/Floor Area      0 076	Total Proposed Modified Loads.      27 59	PASS
	Total Standard Reference Loads      35 08	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY _____</p> <p>DATE _____</p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT _____</p> <p>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>BUILDING OFFICIAL _____</p> <p>DATE _____</p> <div style="text-align: center;">  </div>
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- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist



PROJECT											
Title	Dyal Road Home 2	Bedrooms	3	Address Type	Street Address						
Building Type	User	Conditioned Area	1508	Lot #							
Owner		Total Stories	1	Block/SubDivision							
# of Units	1	Worst Case	No	PlatBook							
Builder Name	Thomas Construction of Lake	Rotate Angle	0	Street							
Permit Office		Cross Ventilation		County	Columbia						
Jurisdiction	Columbia County	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	15080

SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1508	15080	Yes	4	3	1	Yes	Yes	Yes

FLOORS										
✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	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	1589 ft²	250 ft²	Medium	0 96	No	0 9	No	0	18 4

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)	Main	30	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	W	Exterior	Frame - Wood	Main	13	58		8		464 0 ft²		0 23	0 75	0
2	S	Exterior	Frame - Wood	Main	13	26		8		208 0 ft²		0 23	0 75	0
3	E	Exterior	Frame - Wood	Main	13	58		8		464 0 ft²		0 23	0 75	0
4	N	Exterior	Frame - Wood	Main	13	26		8		208 0 ft²		0 23	0 75	0

DOORS											
✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
1	W	Insulated	Main	None	46	3		6	8	20 ft²	
2	E	Insulated	Main	None	46	6		6	8	40 ft²	

WINDOWS													
Orientation shown is the entered, Proposed orientation													
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang Depth	Separation	Int Shade	Screening	
1	W	1	Vinyl	Low-E Double	Yes	0 55	0 5	45 0 ft²	1 ft 8 in	0 ft 0 in	Drapes/blinds	None	
2	W	1	Vinyl	Low-E Double	Yes	0 55	0 5	40 0 ft²	1 ft 8 in	0 ft 0 in	Drapes/blinds	None	
3	N	4	Vinyl	Double (Tinted)	Yes	0 55	0 5	30 0 ft²	1 ft 8 in	0 ft 0 in	Drapes/blinds	None	

GARAGE						
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg Wall Height	Exposed Wall Insulation	
1	528 ft²	528 ft²	64 ft	8 ft	1	

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0005	1977 8	108 58	204 19	385	7 869

HEATING SYSTEM							
✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts	
1	Electric Heat Pump	None	HSPF 7 7	34 kBtu/hr	1	sys#1	

COOLING SYSTEM								
✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit	Single	SEER 15 25 1	kBtu/hr	720 cfm	0 75	1	sys#1

HOT WATER SYSTEM									
✓ #	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation	
1	Electric	None	Garage	0 92	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 ---- Location	R-Value	Area	----- Return ----- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
_____	1	Attic	6	301 6 ft	Attic	75 4 ft²	Default Leakage	Main	(Default)	(Default)			1	1

## TEMPERATURES

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

# Florida Code Compliance Checklist

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

ADDRESS \_\_\_\_\_ 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  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\* = 79

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

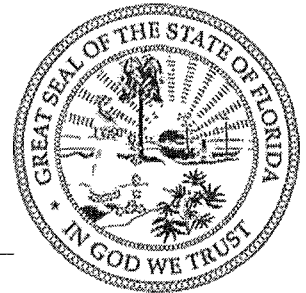
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4 Number of Bedrooms	3		c N/A	R=	ft <sup>2</sup>
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I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which 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](http://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.