

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = **74**

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

, , FL,

- | | |
|--|------------------|
| 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 (ft ²) | 2470 |

- | | | |
|---------------------------------------|-------------|------------------------|
| 7. Windows** | Description | Area |
| a. U-Factor: | DbI, U=0.60 | 329.33 ft ² |
| SHGC: | SHGC=0.29 | |
| b. U-Factor: | N/A | ft ² |
| SHGC: | | |
| c. U-Factor: | N/A | ft ² |
| SHGC: | | |
| d. U-Factor: | N/A | ft ² |
| SHGC: | | |
| Area Weighted Average Overhang Depth: | 2.093 ft. | |
| Area Weighted Average SHGC: | 0.290 | |

- | | | |
|----------------------------------|------------|-------------------------|
| 8. Floor Types | Insulation | Area |
| a. Slab-On-Grade Edge Insulation | R=0.0 | 2470.00 ft ² |
| b. N/A | R= | ft ² |
| c. N/A | R= | ft ² |

- | | | |
|---------------------------|------------|-------------------------|
| 9. Wall Types | Insulation | Area |
| a. Frame - Wood, Exterior | R=13.0 | 2151.00 ft ² |
| b. Frame - Wood, Adjacent | R=13.0 | 405.00 ft ² |
| c. N/A | R= | ft ² |
| d. N/A | R= | ft ² |

- | | | |
|-------------------------|------------|-------------------------|
| 10. Ceiling Types | Insulation | Area |
| a. Under Attic (Vented) | R=30.0 | 2470.00 ft ² |
| b. N/A | R= | ft ² |
| c. N/A | R= | ft ² |

- | | | |
|---------------------------------------|---|-----------------|
| 11. Ducts | R | ft ² |
| a. Sup: Attic, Ret: Attic, AH: Garage | 6 | 494 |

- | | | |
|---------------------|---------|------------|
| 12. Cooling systems | kBtu/hr | Efficiency |
| a. Central Unit | 47.5 | SEER:13.80 |

- | | | |
|-----------------------|---------|------------|
| 13. Heating systems | kBtu/hr | Efficiency |
| a. Electric Heat Pump | 46.0 | HSPF:7.70 |

- | | |
|--------------------------|-----------------|
| 14. Hot water systems | Cap: 40 gallons |
| a. Electric | EF: 0.92 |
| b. Conservation features | |
| None | |

- | | |
|-------------|-------|
| 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: Freddie A. Roman

Date: 6-7-12

Address of New Home: 174 SE CR 349

City/FL Zip: Lake City FL 32025

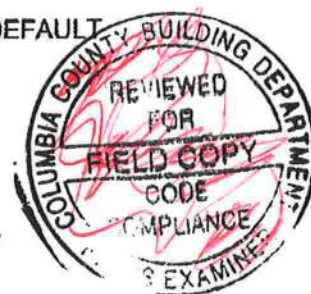


*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information 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



EnergyGauge® USA - FlaRes2010 Section 405.4.1 Compliant Software



Project Information

For: Thomas Residence

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	34	93	Method	Average
Inside db (°F)	70	75	Construction quality	0
Design TD (°F)	36	18	Fireplaces	
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	10	50		

HEATING EQUIPMENT

Make	American Standard
Trade	AMERICAN STANDARD 13
Model	4A6B3048A1
AHRI ref no	4151269
Efficiency	7.7 HSPF
Heating input	
Heating output	46000 Btuh @ 47°F
Temperature rise	26 °F
Actual air flow	1583 cfm
Air flow factor	0.040 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

COOLING EQUIPMENT


Make	American Standard
Trade	AMERICAN STANDARD 13
Cond	4A6B3048A1
Coil	GAM5A0B36M31
AHRI ref no	4151269
Efficiency	11.0 EER, 13.8 SEER
Sensible cooling	33250 Btuh
Latent cooling	14250 Btuh
Total cooling	47500 Btuh
Actual air flow	1583 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.84

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Whole House	2210	34737	31030	1388	1300
Bonus Room	260	4868	6743	195	283
Entire House	2470	39605	37773	1583	1583
Other equip loads		0	0		
Equip. @ 0.98 RSM			37018		
Latent cooling			7116		
TOTALS	2470	39605	44134	1583	1583

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Wilson - Thomas Street: City, State, Zip: , FL Owner: Thomas Residence Design Location: FL, Ocala		Builder Name: Permit Office: Permit Number: Jurisdiction:	
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): 2470 Conditioned floor area below grade (ft²): 0 7. Windows (329.3 sqft.) a. U-Factor: Dbl, U=0.60 SHGC: SHGC=0.29 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: 2.093 ft. Area Weighted Average SHGC: 0.290 8. Floor Types (2470.0 sqft.) a. Slab-On-Grade Edge Insulation: R=0.0 2470.00 ft² b. N/A c. N/A		9. Wall Types (2556.0 sqft.) a. Frame - Wood, Exterior: R=13.0 2151.00 ft² b. Frame - Wood, Adjacent: R=13.0 405.00 ft² c. N/A d. N/A 10. Ceiling Types (2470.0 sqft.) a. Under Attic (Vented): R=30.0 2470.00 ft² b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Garage: R 6 494 12. Cooling systems a. Central Unit: kBTu/hr 47.5 Efficiency SEER:13.80 13. Heating systems a. Electric Heat Pump: kBTu/hr 46.0 Efficiency HSPF:7.70 14. Hot water systems a. Electric: Cap: 40 gallons EF: 0.920 b. Conservation features: None 15. Credits: Petat	
Glass/Floor Area: 0.133 Total Proposed Modified Loads: 36.37 Total Standard Reference Loads: 48.97		PASS	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 6-1-12 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 563.808 Florida Statutes. BUILDING OFFICIAL: DATE:	



- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with 403.2.2.1.1.
- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist

Building Type: FLProp2010 Owner: Thomas Residence # of Units: 1 Builder Name: Permit Office: Jurisdiction: Family Type: Single-family New/Existing: New (From Plans) Comment:		Conditioned Area: 2470 Total Stories: 1 Worst Case: No Rotate Angle: 0 Cross Ventilation: Whole House Fan:		Lot # Block/SubDivision: PlatBook: Street: County: Columbia City, State, Zip: FL,						
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, Ocala	FL_OCALA_MUNI_AWO	2	28 91	70 75	1144.5	51	Medium		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	2470	22230							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	RoomsInBlock1	2470	22230	Yes	3	3	1	Yes	Yes	Yes
FLOORS										

✓	#	Floor Type	Space	Perimeter	R-Value	Area	U-Factor	Area	U-Factor	Area	U-Factor
	1	Slab-On-Grade Edge Insulation	RoomsInBlock1	276 ft	0	2470 ft²		0.25	0	0.75	

ROOF												
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
	1	Hip	Composition shingles	2675 ft²	0 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	2470 ft²	N	N

CEILING							
✓	#	Ceiling Type	Space	R-Value	Area	Framing Frao	Truss Type
	1	Under Attic (Vented)	RoomsInBlock1	30	2470 ft²	0.11	Wood

WALLS

✓	#	Omt	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	RoomsInBloc	13	74		9		666 ft²		0.23	0.75	0
✓	2	S	Exterior	Frame - Wood	RoomsInBloc	13	74		9		666 ft²		0.23	0.75	0
✓	3	E	Exterior	Frame - Wood	RoomsInBloc	13	35		9		315 ft²		0.23	0.75	0
✓	4	W	Exterior	Frame - Wood	RoomsInBloc	13	56		9		504 ft²		0.23	0.75	0
✓	5	W	Garage	Frame - Wood	RoomsInBloc	13	45		9		405 ft²		0.23	0.01	0

DOORS

✓	#	Omt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
✓	1	W	Wood	RoomsInBloc	None	0.460000	3		7		21 ft²
✓	2	S	Wood	RoomsInBloc	None	0.460000	3		7		21 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Omt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Separation	Int Shade	Screening
✓	1	N	1	Metal	Low-E Double	Yes	0.6	0.29	N	144 ft²	1 ft 0 in	0 ft 10 in	HERS 2006	None
✓	2	S	2	Metal	Low-E Double	Yes	0.6	0.29	N	90 ft²	1 ft 0 in	0 ft 10 in	HERS 2006	None
✓	3	W	4	Metal	Low-E Double	Yes	0.6	0.29	N	36 ft²	1 ft 0 in	0 ft 10 in	HERS 2006	None
✓	4	W	4	Metal	Low-E Double	Yes	0.6	0.29	N	6 ft²	1 ft 0 in	0 ft 10 in	HERS 2006	None
✓	5	S	2	Metal	Low-E Double	Yes	0.6	0.29	N	13.33333	1 ft 0 in	0 ft 10 in	HERS 2006	None
✓	6	N	1	Metal	Low-E Double	Yes	0.6	0.29	N	40 ft²	10 ft 0 in	0 ft 10 in	HERS 2006	None

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
✓	1	382.8 ft²	382.8 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	BySpaces	Proposed SLA	0.000360	2332.3	128.04	240.80	0.2628	6.2952

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump	None	HSPF: 7.7	46 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit	None	SEER: 13.8	47.5 kBtu/hr	1425 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	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume
	None	None				

DUCTS													
✓	#	Location	Supply R-Value	Area	Return Location	Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC # Heat Cool
	1	Attic	6	494 ft²	Attic	123.5 ft	DSE=0.88	Garage	0.0 cfm	0.00 %	0.00	0.60	1 1

TEMPERATURES															
Programmable Thermostat: Y				Ceiling Fans:											
Cooling	Heating	Venting		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Thermostat Schedule: HERS 2008 Reference		Hours											
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	68	68
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	68	68

Residential Whole Building Performance Method

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	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.	

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.	