ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 77

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

, Lake City, 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 (ft²)		1744
7	Windows**	Description	Area
	a U-Factor	Dbl, U=0 36	212 50 ft²
	SHGC	SHGC=0 28	
	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		4 852 ft
	Area Weighted Average SHGC		0 280

8	Floor Types	Insulation	Area
	a Slab-On-Grade Edge Insulation	R=0 0	1744 00 ft²
	b N/A	R=	ft²
	c N/A	R=	ft²

9	Wall Types	Insulation	Area
	a Frame - Wood, Exterior	R=13 0	1655 30 ft²
	b Frame - Wood, Adjacent	R=13 0	301 50 ft²
	c N/A	R=	ft²
	d N/A	R=	ft²
10	Ceiling Types	Insulation	Area
	a Under Attic (Vented)	R=30 0	1744 00 ft²
	b Knee Wall (Vented)	R=19 0	66 00 ft²
	c N/A	R=	ft²
11	Ducts		R ft²
	a Sup Attic, Ret Attic, AH Main		6 348 8

12	Cooling systems	kBtu/hr	Efficiency
	a Central Unit	34 4	SEER 14 00
13	Heating systems	kBtu/hr	Efficiency
	a Electric Heat Pump	34 6	HSPF 8 50
14	Hot water systems		
	a Electric		Cap 50 gallons
			EF 0 92
	b Conservation features		
	None		
15	Credits		CF, 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 Stanley Crews Date 5/27/14

Address of New Home Lot 3 Mayfair 143 SW Van Ct City/FL Zip Lake City, FL 32024

GREAT SEAL OF THE STATE OF FLORIDA * IN GOD WE TRUST *

*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.

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name	SCCI McReynolds residence	Builder Name	Stanley Crawford Construction
Street		Permit Office	
City, State, Zip	Lake City , FL ,	Permit Number	
Owner	McReynolds	Jurisdiction	
Design Location	FL, Gainesville		

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)	1744		
	Conditioned floor area below grade (ft²)	0		
7	Windows(212 5 sqft)	Description		Area
a	U-Factor	Dbl, U=0 36		212 50 ft²
	SHGC	SHGC=0 28		
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			4 852 ft
	Area Weighted Average SHGC			0 280
8	Floor Types (1744 0 sqft)		Insulation	Area
a	Slab-On-Grade Edge Insulation		R=0 0	1744 00 ft²
b	N/A		R=	ft²
c	N/A		R=	ft²

9	Wall Types (1956 8 sqft)	Insulation	Area
a	Frame - Wood, Exterior	R=13 0	1655 30 ft²
b	Frame - Wood, Adjacent	R=13 0	301 50 ft²
c	N/A	R=	ft²
d	N/A	R=	ft²
10	Ceiling Types (1810 0 sqft)	Insulation	Area
a	Under Attic (Vented)	R=30 0	1744 00 ft²
b	Knee Wall (Vented)	R=19 0	66 00 ft²
c	N/A	R=	ft²
11	Ducts		R ft²
a	Sup Attic, Ret Attic, AH Main		6 348 8
12	Cooling systems	kBtu/hr	Efficiency
a	Central Unit	34 4	SEER 14 00
13	Heating systems	kBtu/hr	Efficiency
a	Electric Heat Pump	34 6	HSPF 8 50
14	Hot water systems		
a	Electric		Cap 50 gallons
			EF 0 920
b	Conservation features		
	None		
15	Credits		CF, Pstat

Glass/Floor Area: 0.122

Total Proposed Modified Loads: 31.11

Total Standard Reference Loads: 40.47

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

PREPARED BY: Stanley Crawford

DATE: 5/23/14

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code

OWNER/AGENT: Stanley Crawford

DATE: 5/27/14

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: _____

- **Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist**

PROJECT

Title	SCCI McReynolds residence	Bedrooms	3	Address Type	Lot Information
Building Type	User	Conditioned Area	1744	Lot #	3
Owner	McReynolds	Total Stories	1	Block/SubDivision	Mayfair
# of Units	1	Worst Case	No	PlatBook	
Builder Name	Stanley Crawford Constructio	Rotate Angle	0	Street	
Permit Office		Cross Ventilation		County	Columbia
Jurisdiction		Whole House Fan		City, State, Zip	Lake City , FL ,
Family Type	Single-family				
New/Existing	New (From Plans)				
Comment					

CLIMATE

√	Design Location	TMY Site	IECC Zone	Design Temp 97 5 %	Design Temp 2 5 %	Int Design Temp Winter	Int Design Temp 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	1744	15696

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1744	15696	Yes	1	3	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	177 ft	0	1744 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	Hip	Composition shingles	1950 ft²	0 ft²	Medium	0 96	No	0 9	No	0	26 6

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1744 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	1744 ft²	0 11	Wood
_____	2	Knee Wall (Vented)	Main	19	66 ft²	0 11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
____	1	SW	Garage	Frame - Wood	Main	13	33	6	9		301 5 ft²		0 23	0 75	0
____	2	SW	Exterior	Frame - Wood	Main	13	18	8	9		168 0 ft²		0 23	0 75	0
____	3	NW	Exterior	Frame - Wood	Main	13	29	7	9		266 3 ft²		0 23	0 75	0
____	4	NE	Exterior	Frame - Wood	Main	13	46	6	9		418 5 ft²		0 23	0 75	0
____	5	SE	Exterior	Frame - Wood	Main	13	32	2	9		289 5 ft²		0 23	0 75	0
____	6	NE	Exterior	Frame - Wood	Main	13	24		9		216 0 ft²		0 23	0 75	0
____	7	SW	Exterior	Frame - Wood	Main	13	33		9		297 0 ft²		0 23	0 75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	S	Insulated	Main	None	0 460000	3		6	8	20 ft²
_____	2	S	Insulated	Main	None	0 460000	3		8		24 ft²
_____	3	NE	Insulated	Main	None	0 460000	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Overhang Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	SW	7	Vinyl	Low-E Double	Yes	0 36	0 28	24 0 ft²	6 ft 0 in	6 ft 0 in	Drapes/blinds	None
_____	2	SW	2	Vinyl	Low-E Double	Yes	0 36	0 28	30 0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
_____	3	SW	7	Vinyl	Low-E Double	Yes	0 36	0 28	37 5 ft²	6 ft 0 in	6 ft 0 in	Drapes/blinds	None
_____	4	NW	3	Vinyl	Low-E Double	Yes	0 36	0 28	4 0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
_____	5	NE	4	Vinyl	Low-E Double	Yes	0 36	0 28	75 0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
_____	6	NE	6	Vinyl	Low-E Double	Yes	0 36	0 28	36 0 ft²	12 ft 0 in	6 ft 0 in	Drapes/blinds	None
_____	7	SE	5	Vinyl	Low-E Double	Yes	0 36	0 28	6 0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg Wall Height	Exposed Wall Insulation
_____	1	521 994 ft²	521 994 ft²	58 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0 000500	2287.2	125 56	236 14	0 3850	8 7433

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	(Invali	Electric Heat Pump	None	HSPF 8 5	34 6 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	(Invali	Central Unit	None	SEER 14	34 4 kBtu/hr	1032 cfm	0 75	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Main	0 92	50 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	CFM25	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
_____	(Invali	Attic	6	348 8 ft	Attic	87 2 ft²	Default Leakage	Main	(invalid)	c (Default)			1	1

TEMPERATURES

Programable Thermostat Y Ceiling Fans

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 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

FORM 405-10

Florida Code Compliance Checklist

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

ADDRESS:	PERMIT #:
Lake City, 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.	

wrightsoft

Load Short Form
Entire House
CAD of Ocala, LLC

Job: McReynolds
Date: May 19, 2014
By: JAC

53 Hemlock Radial Loop, Ocala, FL 34472 Phone: (352) 390-5609 Fax: (352) 292-4288 Email: Design@cadofocala.com Web: WWW.cadofocala.com

Project Information

For: Mcreynolds

Design Information

	Htg	Clg
Outside db (°F)	34	93
Inside db (°F)	70	75
Design TD (°F)	36	18
Daily range	-	M
Inside humidity (%)	50	50
Moisture difference (gr/lb)	32	50

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

HEATING EQUIPMENT

Make	Ruud
Trade	RUUD 13PJL SERIES
Model	13PJL36
AHRI ref	3407796
Efficiency	8.5 HSPF
Heating input	
Heating output	34600 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	1147 cfm
Air flow factor	0.037 cfm/Btuh
Static pressure	0.53 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Ruud
Trade	RUUD 13PJL SERIES
Cond	13PJL36
Coil	RHSL-HM3621
AHRI ref	3407796
Efficiency	11.0 EER, 13 SEER
Sensible cooling	26832 Btuh
Latent cooling	7568 Btuh
Total cooling	34400 Btuh
Actual air flow	1147 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	0.53 In H2O
Load sensible heat ratio	0.86

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
House	1744	30807	27514	1147	1147
Entire House d	1744	30807	27514	1147	1147
Other equip loads		0	0		
Equip. @ 0.98 RSM			26964		
Latent cooling			4467		
TOTALS	1744	30807	31430	1147	1147

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