

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 73

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

417 Hilltop Terrace, Fort White, 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=19.0	2263.40 ft ²
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=19.0	216.00 ft ²
4. Number of Bedrooms	4		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)	2630		10. Ceiling Types	Insulation	Area
7. Windows**	Description	Area	a. Cathedral/Single Assembly (Unvented)	R=1.0	1754.00 ft ²
a. U-Factor:	Dbl, U=0.30	236.00 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.31		c. N/A	R=	ft ²
b. U-Factor:	Dbl, U=0.87	6.00 ft ²	11. Ducts		R
SHGC:	SHGC=0.66		a. Sup: 1st Floor, Ret: 1st Floor, AH: 1st Floor		6 526
c. U-Factor:	N/A	ft ²	12. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	40.4	SEER:13.00
d. U-Factor:	N/A	ft ²	13. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	40.0	HSPF:8.00
Area Weighted Average Overhang Depth:	2.000 ft.		14. Hot water systems		Cap: 80 gallons
Area Weighted Average SHGC:	0.319		a. Electric		EF: 0.94
8. Floor Types	Insulation	Area	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	1754.00 ft ²	None		
b. Floor Over Other Space	R=0.0	876.00 ft ²	15. Credits		Pstat
c. N/A	R=	ft ²			

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: Don O'Neil Construction Date: 9/30/13

Address of New Home: 417 Hilltop Terr. City/FL Zip: Fl. White, FL 32038



*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.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

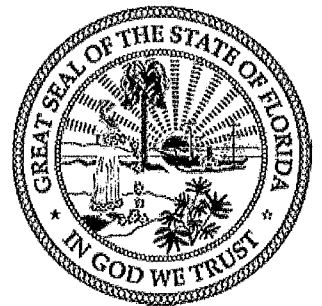
Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: O'neil Const Reeves Street: 417 Hilltop Terrace City, State, Zip: Fort White, FL, Owner: Reeves Design Location: FL, Gainesville	Builder Name: O'neil Const Permit Office: Permit Number: Jurisdiction:
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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 4 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2630 Conditioned floor area below grade (ft²) 0 7. Windows(242.0 sqft) Description Area a. U-Factor: Dbl, U=0.30 236.00 ft² SHGC: SHGC=0.31 b. U-Factor: Dbl, U=0.87 6.00 ft² SHGC: SHGC=0.66 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: 0.319 8. Floor Types (2630.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1754.00 ft² b. Floor Over Other Space R=0.0 876.00 ft² c. N/A R= ft²	9. Wall Types (2479.4 sqft.) Insulation Area a. Frame - Wood, Exterior R=19.0 2263.40 ft² b. Frame - Wood, Adjacent R=19.0 216.00 ft² c. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (1754.0 sqft.) Insulation Area a. Cathedral/Single Assembly (Unvented) R=1.0 1754.00 ft² b. N/A R= ft² c. N/A R= ft² 11. Ducts R ft² a. Sup: 1st Floor, Ret. 1st Floor, AH: 1st Floor 6 526 12. Cooling systems kBtu/hr Efficiency a. Central Unit 40.4 SEER:13.00 13. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 40.0 HSPF:8.00 14. Hot water systems a. Electric Cap: 80 gallons b. Conservation features EF: 0.940 None 15. Credits Pstat
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Glass/Floor Area: 0.092	Total Proposed Modified Loads: 42.56	PASS
	Total Standard Reference Loads: 58.21	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>Suncoast Insulators</u> DATE: <u>9/30/13</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>O'neil Const</u> DATE: <u>9/30/13</u>	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: O'neil Const Reeves	Bedrooms: 4	Address Type: Street Address									
Building Type: User	Conditioned Area: 2630	Lot #									
Owner: Reeves	Total Stories: 2	Block/SubDivision:									
# of Units: 1	Worst Case: No	PlatBook:									
Builder Name: O'neil Const	Rotate Angle: 0	Street: 417 Hilltop Terrace									
Permit Office:	Cross Ventilation:	County: Columbia									
Jurisdiction:	Whole House Fan:	City, State, Zip: Fort White , 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	2630	22794

SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	1st Floor	1754	15786	Yes	1	1	1	Yes	Yes	Yes
2	2nd Floor	876	7008	No	0	3	1	Yes	Yes	Yes

FLOORS										
✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	1st Floor	166 ft	0	1754 ft²	----	0	0	1
_____	2	Floor Over Other Space	2nd Floor	----	----	876 ft²	0	0	0	1

ROOF												
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Flat	Metal	1768 ft²	110 ft²	Medium	0 96	No	0.9	No	19	7.1

ATTIC							
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	No attic	Unvented	0	1754 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
✓	1	Cathedral/Single Assembly (Unvented)	1st Floor	1	878 ft²	0.11	Wood
✓	2	Cathedral/Single Assembly (Unvented)	2nd Floor	1	876 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	1st Floor	19	24		9		216.0 ft²		0.23	0.75	0
✓	2	E	Exterior	Frame - Wood	1st Floor	19	40	3	9		362.3 ft²		0.23	0.75	0
✓	3	E	Exterior	Frame - Wood	2nd Floor	19	40	3	8		322.0 ft²		0.23	0.75	0
✓	4	S	Exterior	Frame - Wood	1st Floor	19	43	7	9		392.3 ft²		0.23	0.75	0
✓	5	S	Exterior	Frame - Wood	2nd Floor	19	22	11	8		183.3 ft²		0.23	0.75	0
✓	6	W	Exterior	Frame - Wood	1st Floor	19	40	3	9		362.3 ft²		0.23	0.75	0
✓	7	W	Exterior	Frame - Wood	2nd Floor	19	40	3	7		281.8 ft²		0.23	0.75	0
✓	8	N	Exterior	Frame - Wood	1st Floor	19	19	7	9		176.3 ft²		0.23	0.75	0
✓	9	N	Exterior	Frame - Wood	2nd Floor	19	22	11	8		183.3 ft²		0.23	0.75	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
✓	1	N	Insulated	1st Floor	None	0.460000	3	0	6	8	20 ft²
✓	2	E	Insulated	1st Floor	None	0.460000	6		6	8	40 ft²
✓	3	W	Insulated	1st Floor	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	Area	Overhang Depth	Separation	Int Shade	Screening
✓	1	E	2	Vinyl	Low-E Double	Yes	0.3	0.31	15.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	2	E	3	Vinyl	Low-E Double	Yes	0.3	0.31	30.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	3	S	4	Vinyl	Low-E Double	Yes	0.3	0.31	30.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	4	W	6	Vinyl	Low-E Double	Yes	0.3	0.31	3.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	5	S	4	Vinyl	Low-E Double	Yes	0.3	0.31	15.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	6	S	5	Vinyl	Low-E Double	Yes	0.3	0.31	15.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	7	W	6	Vinyl	Low-E Double	Yes	0.3	0.31	45.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	8	W	6	Vinyl	Low-E Double	Yes	0.3	0.31	3.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	9	W	6	Vinyl	Low-E Double	Yes	0.3	0.31	6.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	10	W	7	Vinyl	Low-E Double	Yes	0.3	0.31	30.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	11	W	7	Vinyl	Low-E Double	Yes	0.3	0.31	9.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	12	N	8	Vinyl	Low-E Double	Yes	0.3	0.31	20.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	13	N	8	Vinyl	Low-E Double	Yes	0.3	0.31	15.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/blinds	None
✓	14	N	9	Vinyl	Low-E Double	Yes	0.87	0.66	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	648 ft²	648 ft²	78 ft	9 ft	1							
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50					
1	Wholehouse	Best Guess	0.000500	3449.2	189.36	356.11	0.4739	9.0794					
HOT WATER SYSTEM													
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation				
	1	Electric	None	Garage	0.94	80 gal	70 gal	120 deg	None				
SOLAR HOT WATER SYSTEM													
✓	FSEC	Company Name		System Model #		Collector Model #		Collector Area	Storage Volume	FEF			
	None	None								ft²			
DUCTS													
✓	#	---- Supply ----			---- Return ----		Leakage Type	Air Handler	CFM25	CFM25	QN	RLF	HVAC #
	(Invalid)	1st Floor	6	526 ft²	1st Floor	131.5 ft	Default Leakage	1st Floor	(Invalid) c (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 checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input 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: 417 Hilltop Terrace
Fort White, FL,

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	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.	