

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: QUALITY FAMILY HOMES 1148 SE COUNTY RD 252 Street: 1148 SE COUNTY RD 252 City, State, Zip: LAKE CITY, FL 32025 Owner: Design Location: FL, Gainesville	Builder Name: QUALITY FAMILY HOMES Permit Office: Permit Number: Jurisdiction: County: (Florida Climate Zone 2)
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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: 2 5. Is this a worst case?: No 6. Conditioned floor area above grade (ft²): 1176.00 Conditioned floor area below grade (ft²): 0 7. Windows (125 ft²) <table style="width: 100%;"> <tr> <th style="width: 40%;">Description</th> <th style="width: 20%;">U-Factor</th> <th style="width: 40%;">Area (ft²)</th> </tr> <tr> <td>a. U-Factor: SHGC: 0.300 0.28</td> <td></td> <td>125.00</td> </tr> <tr> <td>b. U-Factor: SHGC:</td> <td></td> <td></td> </tr> <tr> <td>c. U-Factor: SHGC:</td> <td></td> <td></td> </tr> <tr> <td>d. U-Factor: SHGC:</td> <td></td> <td></td> </tr> </table> Area Weighted Average Overhang Depth: 1.000 ft Area Weighted Average SHGC: 0.280 8. Floor types (1176.00 ft²) <table style="width: 100%;"> <tr> <th style="width: 40%;">Description</th> <th style="width: 20%;">Insulation (R)</th> <th style="width: 40%;">Area (ft²)</th> </tr> <tr> <td>a. Bg floor, light dry soil, on gra</td> <td>0.0</td> <td>1176.00</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> </table>	Description	U-Factor	Area (ft²)	a. U-Factor: SHGC: 0.300 0.28		125.00	b. U-Factor: SHGC:			c. U-Factor: SHGC:			d. U-Factor: SHGC:			Description	Insulation (R)	Area (ft²)	a. Bg floor, light dry soil, on gra	0.0	1176.00	b. N/A			c. N/A			9. Wall types (1120 ft²) <table style="width: 100%;"> <tr> <th style="width: 40%;">Description</th> <th style="width: 20%;">Insulation (R)</th> <th style="width: 40%;">Area (ft²)</th> </tr> <tr> <td>a. Frm wall, vnl ext, 1/2" wood sht</td> <td>13.0</td> <td>1120.00</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> <tr> <td>d. N/A</td> <td></td> <td></td> </tr> </table> 10. Ceiling types (1176 ft²) <table style="width: 100%;"> <tr> <th style="width: 40%;">Description</th> <th style="width: 20%;">Insulation (R)</th> <th style="width: 40%;">Area (ft²)</th> </tr> <tr> <td>a. Attic ceiling, asphalt shingles</td> <td>38.0</td> <td>1176.00</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> </table> 11. Ducts <table style="width: 100%;"> <tr> <th style="width: 40%;">Description</th> <th style="width: 20%;">R</th> <th style="width: 40%;">Area (ft²)</th> </tr> <tr> <td>a. Sup: Entire House Attic, Ret: Entire House Attic, Att: Entire House Attic</td> <td>6.0</td> <td>0.00</td> </tr> <tr> <td>b.</td> <td></td> <td></td> </tr> </table> 12. Cooling systems <table style="width: 100%;"> <tr> <th style="width: 40%;">Description</th> <th style="width: 20%;">kBtu/hr</th> <th style="width: 40%;">Efficiency</th> </tr> <tr> <td>a. Split air source heat pump</td> <td>22.8</td> <td>15.2 SEER2</td> </tr> <tr> <td>b.</td> <td></td> <td></td> </tr> </table> 13. Heating systems <table style="width: 100%;"> <tr> <th style="width: 40%;">Description</th> <th style="width: 20%;">kBtu/hr</th> <th style="width: 40%;">Efficiency</th> </tr> <tr> <td>a. Split air source heat pump</td> <td>22.0</td> <td>7.5 HSPF2</td> </tr> <tr> <td>b.</td> <td></td> <td></td> </tr> </table> 14. Hot water systems <table style="width: 100%;"> <tr> <th style="width: 40%;">Description</th> <th style="width: 20%;">Cap: 60 gal</th> <th style="width: 40%;">UEF: 0.92</th> </tr> <tr> <td>a. Electric conventional (50 gal)</td> <td></td> <td></td> </tr> <tr> <td>b. Conservation features (None)</td> <td></td> <td></td> </tr> </table> 15. Credits: Ceiling Fan	Description	Insulation (R)	Area (ft²)	a. Frm wall, vnl ext, 1/2" wood sht	13.0	1120.00	b. N/A			c. N/A			d. N/A			Description	Insulation (R)	Area (ft²)	a. Attic ceiling, asphalt shingles	38.0	1176.00	b. N/A			c. N/A			Description	R	Area (ft²)	a. Sup: Entire House Attic, Ret: Entire House Attic, Att: Entire House Attic	6.0	0.00	b.			Description	kBtu/hr	Efficiency	a. Split air source heat pump	22.8	15.2 SEER2	b.			Description	kBtu/hr	Efficiency	a. Split air source heat pump	22.0	7.5 HSPF2	b.			Description	Cap: 60 gal	UEF: 0.92	a. Electric conventional (50 gal)			b. Conservation features (None)		
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Glass/Floor area: 0.106	Total Proposed Modified Loads: 30.04	PASS
	Total Baseline Loads: 36.11	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. Prepared By: <u>Kenneth W. Glover</u> Signature: <u>[Signature]</u> Date: <u>10-30-24</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. Owner/Agent Name: <u>Johnnie Lynn Carter</u> Signature: <u>[Signature]</u> Date: <u>11-27-24</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. Review for Code Compliance Universal Engineering Science Signature: _____ Date: _____ Examiner License No. _____
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- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.0 ACH50 (R402.4.1.2).
- Compliance with a proposed leak free duct leakage requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with Section 803 of RESNET Standards, is not greater than 0.030 Qn for whole house.

Building Input Summary Report

PROJECT														
Title:	QUALITY FAMILY HOMES 1148			Bedrooms:	2	Address type:	Street address							
Building Type:	FLAsBuilt			Bathrooms:	2	Lot#:	1148 SE COUNTY RD 252							
Owner:				Conditioned Area:	1176	Block/Subdivision:	1148 SE COUNTY RD 252							
# of Units:	1			Total Stories:	1	Platbook:								
Builder Name:	QUALITY FAMILY HOMES			Worst Case:	No	Street:	1148 SE COUNTY RD 25							
Permit Office:				Rotate Angle:	0	County:	LAKE CITY, FL 32025							
Jurisdiction:				Cross Ventilation:	No	City, State, Zip:	LAKE CITY, FL 32025							
Family type:	Single-Family			Whole House Fan:	No									
New/Existing:	New (From Plans)			Terrain:	Suburban									
Year Construct:	2024			Shielding:	Suburban									
Comment:	1148 SE COUNTY RD 252													
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_Rgn	2	33	92	68	75	1108	43	Medium				
BLOCKS														
#	Name	Area	Volume											
1	Entire House	1176.00 ft²	9408.00 ft³											
SPACES														
#	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated					
1	MAIN	1176.00 ft²	9408.00 ft³	No	3	0	1	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 1176 sq.ft.)														
✓ #	Floor Type	Space	Perimeter	R-Value	Area	U-Factor	Tile	Wood	Carpet					
1	Bg floor, light dry soil, on grade depth, carpet	MAIN	140 ft	0	1176.00 ft²	0.989	0	0	1.0					
ROOF														
✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Hip	RoofAsph	1315 ft²		Dark	N	0.75	No	0.90	No	0	27		
ATTIC														
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	300	1176.00 ft²	N	N								
CEILING (Total Exposed Area = 1176 sq.ft.)														
✓ #	Ceiling Type	Space	R-Value	U-Factor	Area	Framing Fraction	Truss Type							
1	Attic ceiling, asphalt shingles roof	MAIN	38	0.026	1176.00 ft²	0.10								
WALLS (Total Exposed Area = 1120 sq.ft.)														
✓ #	Omt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	U-Factor	Frm. Frac.	Solar Absor.	Below Grade%	
1	NE	Exterior	Frm wall, vnl ext	MAIN	13	42	0	8 0	336.0 ft²	0	0.091	0.25	0.75	0
2	SE	Exterior	Frm wall, vnl ext	MAIN	13	28	0	8 0	224.0 ft²	0	0.081	0.25	0.75	0
3	SW	Exterior	Frm wall, vnl ext	MAIN	13	42	0	8 0	336.0 ft²	0	0.091	0.25	0.75	0
4	NW	Exterior	Frm wall, vnl ext	MAIN	13	28	0	8 0	224.0 ft²	0	0.081	0.25	0.75	0
DOORS (Total Exposed Area = 63 sq.ft.)														
✓ #	Omt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area						
1	NE	Door, mtl fbrgl type	MAIN	None	0.600	3 0	7 0	21.0 ft²						
2	SE	Door, mtl fbrgl type	MAIN	None	0.600	3 0	7 0	21.0 ft²						
3	SW	Door, mtl fbrgl type	MAIN	None	0.600	3 0	7 0	21.0 ft²						



Review for Code Compliance
Universal Engineering Science

Lawrence Perrell

PX2707

02/03/2025

Examiner License No.

WINDOWS														(Total Exposed Area = 125 sq.ft.)			
✓ #	Omt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Impact	W x H, Area	Overhang Depth	Separation	Interior Shade	Screening				
1	NE	1	Vinyl	Low-E Double	Yes	0.300	0.28	No	18'0" x 5'0" 90	1'0" in	1'0" in	None	None				
2	SW	3	Vinyl	Low-E Double	Yes	0.300	0.28	No	3'0" x 3'0" 9	1'0" in	1'0" in	None	None				
3	SW	3	Vinyl	Low-E Double	Yes	0.300	0.28	No	2'10" x 6'0" 17	1'0" in	1'0" in	None	None				
4	NW	4	Vinyl	Low-E Double	Yes	0.300	0.28	No	3'0" x 3'0" 9	1'0" in	1'0" in	None	None				

GARAGE						
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation	
1					0	

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Simplified	0.000356	1098	60.27	113.2	0.55	7.00

HEATING SYSTEM						
✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	Split air source heat pump		7.5 HSPF2	22.0 kBtu/hr	1	sys#1

COOLING SYSTEM								
✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Split air source heat pump		15.2 SEER2	22.8 kBtu/hr	760 cfm	0.70	1	sys#1

HOT WATER SYSTEM								
✓ #	System Type	Subtype	Location	EF	Cap	Use	SetPnt	Conservation
1	Electric conventional			0.92 UEF	50 gal	50 gal	120 °F	None

DUCTS													
✓ #	Location	Supply R-Value	Area	Return Location	Area	Leakage Type	Air Handler	CFM 25 Out	Percent Leakage	QN	RLF	HVAC # Heat	# Cool
1	Entire House Attic	8.0	0 ft²	Entire House Attic	0 ft²	Proposed Leak Free	Entire House Attic	35.3 cfm	6.00	0.03	0.00	1	1

TEMPERATURES																											
Programmable Thermostat: N														Ceiling Fans:													
Cooling	Heating	Venting	X	Jan	X	Feb	X	Mar	X	Apr	X	May	X	Jun	X	Jul	X	Aug	X	Sep	X	Oct	X	Nov	X	Dec	
Thermostat Schedule:	Florida Building Code, 8th Edition																										
Schedule Type	(2023)																										
Cooling (WD)	AM	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	
Cooling (WEH)	AM	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	
Heating (WD)	AM	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	
Heating (WEH)	AM	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	



Review for Code Compliance
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Lawrence Parnell
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02/03/2025

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX = 83****The lower the EnergyPerformance Index, the more efficient the home.**

1. New home or addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level	
2. Single-family or multiple-family	2. <u>Single-Family</u>	a. Supply ducts:	R _____
3. Number of units, if multiple-family	3. <u>1</u>	b. Return ducts:	R _____
4. Number of bedrooms	4. <u>2</u>	c. AHU location:	<u>Entire House Attic</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling systems	Capacity <u>22.8</u>
6. Conditioned floor area (ft²)	6. <u>1176.00</u>	a. Split system:	SEER2 <u>15.20</u>
7. Windows, type and area*		b. Single package:	SEER2 _____
a. U-Factor:	7a. <u>Dbl, 0.300</u>	c. Ground/water source:	SEER/COP _____
b. Solar Heat Gain Coefficient (SHGC):	7b. <u>0.28</u>	d. Room unit/PTAC:	EER _____
c. Area (ft²)	7c. <u>125</u>	e. Other:	_____
8. Skylights		14. Heating systems	Capacity <u>22.0</u>
a. U-Factor:	8a. _____	a. Split system heat pump:	HSPF2 <u>7.50</u>
b. Solar Heat Gain Coefficient (SHGC):	8b. _____	b. Single package heat pump:	HSPF2 _____
9. Floor type, insulation level		c. Electric resistance:	COP _____
a. Slab-on-grade (R-value):	9a. <u>0.0</u>	d. Gas furnace, natural gas:	AFUE _____
b. Wood, raised (R-value):	9b. _____	e. Gas furnace, LPG:	AFUE _____
c. Concrete, raised (R-value):	9c. _____	f. Other:	_____
10 Wall type and insulation:		15. Water heating systems	
a. Exterior:		a. Electric resistance:	<u>0.92 UEF</u>
1. Wood/mlt frame (Insulation R-value):	10a1. <u>13.0</u>	b. Gas fired, natural gas:	_____
2. Masonry (Insulation R-value):	10a2. _____	c. Gas fired, LPG:	_____
b. Adjacent:		d. Solar system with tank:	_____
1. Wood/mlt frame (Insulation R-value):	10b1. _____	e. Dedicated heat pump with tank:	_____
2. Masonry (Insulation R-value):	10b2. _____	f. Heat recovery unit:	HeatRec% _____
11. Ceiling type and insulation level		g. Other:	_____
a. Under attic (R-value):	11a. <u>38.0</u>	16. HVAC credits claimed (Performance Method)	
b. Single assembly (R-value):	11b. _____	a. Ceiling fans:	<u>Yes</u>
c. Knee walls/skylight walls (R-value):	11c. _____	b. Cross ventilation:	_____
d. Radiant barrier installed	11d. <u>No</u>	c. Whole house fan:	_____
		d. Multizone cooling credit:	_____
		e. Multizone heating credit:	_____
		f. Programmable thermostat:	_____

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: Johnnie Lynn CarterDate: 1.2.25Address of New Home: 1148 SE COUNTY RD 252City/FL Zip: LAKE CITY, FL 32025

Review for Code Compliance
Universal Engineering Science

Lander Parnell
Examiner-License No.

PX2707

02/03/2025