

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Adams Homes orest Country Lot 13 plan 2265		Builder Name: Adams Homes	
Street:		Permit Office:	
City, State, Zip: Lake City, FL, 32024		Permit Number:	
Owner:		Jurisdiction:	
Design Location: FL, Gainesville		County: Columbia(Florida Climate Zone 2)	

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Glass/Floor Area: 0.099	Total Proposed Modified Loads: 54.08	PASS
	Total Baseline Loads: 54.81	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>[Signature]</u> DATE: <u>5-9-22 De Williams</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>Francine Riale</u> DATE: <u>5/10/2022</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 certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Default duct leakage does not require a Duct Leakage Test Report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 9.83 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Adams Homes orest Country Lot 13 plan 2265					Address type:		Street Address				
Building Type:	User	Bedrooms:	4			Lot #:		---				
Owner:		Conditioned Area:	2265			Block/SubDivision:		---				
		Total Stories:	1			PlatBook:		---				
Builder Name:	Adams Homes	Worst Case:	No			Street:						
Permit Office:		Rotate Angle:	0			County:		Columbia				
Jurisdiction:		Cross Ventilation:				City, State, Zip:		Lake City, FL, 32024				
Family Type:	Detached	Whole House Fan:										
New/Existing:	New (From Plans)	Terrain:	Suburban									
Year Construct:		Shielding:	Suburban									
Comment:												
CLIMATE												
✓ Design Location	Tmy Site	Design Temp		Int Design Temp		Heating		Design		Daily temp		
		97.5%	2.5%	Winter	Summer	Degree Days		Moisture		Range		
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5		51		Medium		
BLOCKS												
✓ Number	Name	Area	Volume									
___ 1	Block1	2265	18120 cu ft									
SPACES												
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated			
___ 1	Main	2265	18120	Yes	4	4	Yes	Yes	Yes			
FLOORS (Total Exposed Area = 2265 sq.ft.)												
✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value		Area	U-Factor	Joist R-Value	Tile	Wood	Carpet	
___ 1	Slab-On-Grade Edge Ins	Main	219	0		2265 ft	0.379	---	0.00	0.35	0.65	
ROOF												
✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Gable or shed	Composition shingles	2454 ft²	472 ft²	Medium	N	0.96	No	0.9	No	0	22.62
ATTIC												
✓ #	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC					
___ 1	Full attic	Vented	300		2265 ft²	N	N					
CEILING (Total Exposed Area = 2265 sq.ft.)												
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type				
___ 1	Flat ceiling under attic(Vented)	Main	30.0	Blown	2265.0ft²	0.030	0.11	Wood				

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 1757 sq.ft.)				
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade				
___ 1	N	Exterior	Face Brick - Wood	Main	13.0	22.0	0	8.0	0	176.0	0.086		0.23	0.75	0 %				
___ 2	N	Exterior	Face Brick - Wood	Main	13.0	20.0	11	8.0	0	167.3	0.086		0.23	0.75	0 %				
___ 3	N	Exterior	Face Brick - Wood	Main	13.0	13.0	1	8.0	0	104.7	0.086		0.23	0.75	0 %				
___ 4	E	Exterior	Face Brick - Wood	Main	13.0	45.0	10	8.0	0	366.7	0.086		0.23	0.75	0 %				
___ 5	S	Exterior	Face Brick - Wood	Main	13.0	13.0	6	8.0	0	108.0	0.086		0.23	0.75	0 %				
___ 6	S	Exterior	Face Brick - Wood	Main	13.0	23.0	9	8.0	0	190.0	0.086		0.23	0.75	0 %				
___ 7	S	Exterior	Face Brick - Wood	Main	13.0	18.0	9	8.0	0	150.0	0.086		0.23	0.75	0 %				
___ 8	W	Exterior	Face Brick - Wood	Main	13.0	61.0	10	8.0	0	494.7	0.086		0.23	0.75	0 %				

DOORS															(Total Exposed Area = 40 sq.ft.)				
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area								
___ 1	S	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²								
___ 2	S	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²								

WINDOWS															(Total Exposed Area = 224 sq.ft.)				
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen			
___ 1	N	2	Vinyl	Low-E Double	Y	0.55	0.60	N	N	30.0	1	6.00	5.00	1.0	2.0	Drapes/blinds	None		
___ 2	N	2	Vinyl	Low-E Double	Y	0.55	0.60	N	N	6.7	1	1.00	6.67	1.0	2.0	Drapes/blinds	None		
___ 3	N	2	Vinyl	Low-E Double	Y	0.55	0.60	N	N	6.7	1	1.00	6.67	1.0	2.0	Drapes/blinds	None		
___ 4	N	3	Vinyl	Low-E Double	Y	0.55	0.60	N	N	30.0	1	6.00	5.00	1.0	2.0	Drapes/blinds	None		
___ 5	E	4	Vinyl	Low-E Double	Y	0.55	0.60	N	N	15.0	1	3.00	5.00	1.0	2.0	Drapes/blinds	None		
___ 6	N	3	Vinyl	Low-E Double	Y	0.55	0.60	N	N	9.0	1	3.00	3.00	1.0	2.0	Drapes/blinds	None		
___ 7	S	5	Vinyl	Low-E Double	Y	0.55	0.60	N	N	30.0	1	6.00	5.00	1.0	2.0	Drapes/blinds	None		
___ 8	S	6	Vinyl	Low-E Double	Y	0.55	0.60	N	N	30.0	1	6.00	5.00	9.2	2.0	Drapes/blinds	None		
___ 9	S	6	Vinyl	Low-E Double	Y	0.55	0.60	N	N	10.8	1	2.17	5.00	9.2	2.0	Drapes/blinds	None		
___ 10	S	6	Vinyl	Low-E Single	Y	0.55	0.60	N	N	10.8	1	2.17	5.00	9.2	2.0	Drapes/blinds	None		
___ 11	S	7	Vinyl	Low-E Double	Y	0.55	0.60	N	N	15.0	1	3.00	5.00	2.0	2.0	Drapes/blinds	None		
___ 12	W	8	Vinyl	Low-E Double	Y	0.55	0.60	N	N	15.0	1	3.00	5.00	2.0	2.0	Drapes/blinds	None		
___ 13	W	8	Vinyl	Low-E Double	Y	0.55	0.60	N	N	15.0	1	3.00	5.00	2.0	2.0	Drapes/blinds	None		

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00050	2967	162.80	305.64	0.1925	9.8	All	18120 cu ft	

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	440 ft²	440 ft²	64 ft	8 ft	1

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---	Ducts	Block
						Entry Power Volt Current		
___ 1	Electric Heat Pump	None/Single		HSPF: 8.50	34.6	0.00 0.00 0.00	sys#1	1

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER:16.0	35.0	1050	0.75	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Garage	0.92 (0.92)	50.00 gal	70 gal	120 deg	Standard	None	99
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___ 1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS

✓ Duct #	-----Supply----- Location R-Value Area	-----Return----- Location R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic 6.0 453 ft²	Attic 6.0 113 ft²	Default Leakage	Main	(Default)	(Default)			1 1

TEMPERATURES

Programable Thermostat: N					Ceiling Fans: N									
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec		
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec		
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] Nov	[] Dec		
Thermostat Schedule: HERS 2006 Reference														
✓ Schedule Type		1	2	3	4	5	6	Hours 7	8	9	10	11	12	
___ Cooling (WD)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
___ Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
___ Heating (WD)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68
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ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

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

Forest Country Lot 13 plan 2265,Lake City,FL,32024

1. New construction or existing	New (From Plans)	10. Wall Types(1757.3 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Face Brick - Wood, Exterior	R=13.0	1757.30 ft ²
3. Number of units, if multiple family	1	b. N/A	R=	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
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SHGC:	SHGC=0.60	b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
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8. Skylights	Description	a. Electric Heat Pump	34.6	HSPF:8.50
U-Factor:(AVG)	N/A			
SHGC:(AVG):	N/A	15. Hot Water Systems		
9. Floor Types	Insulation	a. Electric		Cap: 50 gallons
a. Slab-On-Grade Edge Insulation	R= 0.0			EF: 0.920
b. N/A	R=	b. Conservation features		
c. N/A	R=			None
		16. Credits		CF

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: Francine Rials Date: 5/10/2022

Address of New Home: Forest Country Lot 13 plan 2265 City/FL Zip: Lake City,FL,32024



*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 Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

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