

Project Name: Helmick Street: 283 SE Rolling Meadows City, State, Zip: Ft White, FL, Owner: Daniel Helmick Design Location: FL, Gainesville	Builder Name: ChrisMill Homes of Florida Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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1. New construction or existing New (From Plans) 2. Single family or multiple family Detached 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) 2123 Conditioned floor area below grade (ft²) 0 7. Windows(232.1 sqft.) Description Area a. U-Factor: Sgl, U=0.36 204.50 ft² SHGC: SHGC=0.25 b. U-Factor: Dbl, U=0.36 27.56 ft² SHGC: SHGC=0.25 c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 4.411 ft Area Weighted Average SHGC: 0.250 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 2123.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2055.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1746.00 ft² b. Frame - Wood, Adjacent R=13.0 309.00 ft² c. N/A d. N/A 11. Ceiling Types(2335.3 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 2335.30 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 2552 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Attic 6 531 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 26.1 SEER2:15.50 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 33.1 HSPF2:8.80 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None CV, Pstat 17. Credits
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Glass/Floor Area:0.109	Total Proposed Modified Loads: 50.16	<div style="font-size: 2em; font-weight: bold;">PASS</div>
	Total Baseline Loads: 53.24	

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. <div style="text-align: right; margin-top: 20px;"> PREPARED BY: _____ DATE: <u>9 / 3 / 2024</u> </div> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>Pat Jones</u> DATE: <u>9.23.24</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. <div style="text-align: center;"> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> BUILDING OFFICIAL: DATE: _____ </div> <div style="text-align: center; color: red;"> Review for Code Compliance Universal Engineering Science </div> </div> </div>
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INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Helmick	Bedrooms:	3	Address type:	Street Address								
Building Type:	User	Conditioned Area:	2123	Lot #:	---								
Owner:	Daniel Helmick	Total Stories:	1	Block/SubDivision:	---								
Builder Home ID:		Worst Case:	No	PlatBook:	---								
Builder Name:	ChrisMill Homes of Florida	Rotate Angle:	0	Street:	283 SE Rolling Meadows								
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia								
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Ft White, FL,								
Family Type:	Detached	Terrain:	Suburba	Review for Code Compliance Universal Engineering Science									
New/Existing:	New (From Plans)	Shielding:	Suburba										
Year Construct:	2024	Comment:											
CLIMATE													
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <i>Lawrence Parnell</i> Examiner-License No. </div> <div>PX2707</div> <div>09/27/2024</div> </div>													
✓ Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range			
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92		70	75	1305.5	51	Medium				
BLOCKS													
✓ Number	Name	Area	Volume										
___ 1	Block1	2123	19107 cu ft										
SPACES													
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	1st Floor	2123	19107	Yes	8	3	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 2123 sq.ft.)													
✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet			
___ 1	Slab-On-Grade Edge Ins	1st Floor	228.6	2123 sqft	0	---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00		
ROOF													
✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)	
___ 1	Hip	Composition shingles	2552 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	33.69	
ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC						
___ 1	Full attic	Vented	300		2123 ft²	Y	N						
CEILING (Total Exposed Area = 2335 sq.ft.)													
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
___ 1	Flat ceiling under attic(Vented)	1st Floor	38.0	Double Batt	2335.3ft²	0.024	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 2055 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	S	Exterior	Frame - Wood	1st Floor	13.0	8.0	4	9.0	0	75.0	0.084		0.23	0.75	0 %				
___ 2	W	Exterior	Frame - Wood	1st Floor	13.0	3.0	10	9.0	0	34.5	0.084		0.23	0.75	0 %				
___ 3	S	Exterior	Frame - Wood	1st Floor	13.0	11.0	8	9.0	0	105.0	0.084		0.23	0.75	0 %				
___ 4	E	Exterior	Frame - Wood	1st Floor	13.0	2.0	0	9.0	0	18.0	0.084		0.23	0.75	0 %				
___ 5	S	Exterior	Frame - Wood	1st Floor	13.0	6.0	4	9.0	0	57.0	0.084		0.23	0.75	0 %				
___ 6	W	Exterior	Frame - Wood	1st Floor	13.0	2.0	0	9.0	0	18.0	0.084		0.23	0.75	0 %				
___ 7	S	Exterior	Frame - Wood	1st Floor	13.0	12.0	0	9.0	0	108.0	0.084		0.23	0.75	0 %				
___ 8	W	Exterior	Frame - Wood	1st Floor	13.0	5.0	0	9.0	0	45.0	0.084		0.23	0.75	0 %				
___ 9	S	Exterior	Frame - Wood	1st Floor	13.0	13.0	4	9.0	0	120.0	0.084		0.23	0.75	0 %				
___ 10	E	Exterior	Frame - Wood	1st Floor	13.0	39.0	2	9.0	0	352.5	0.084		0.23	0.75	0 %				
___ 11	N	Exterior	Frame - Wood	1st Floor	13.0	13.0	0	9.0	0	117.0	0.084		0.23	0.75	0 %				
___ 12	N	Exterior	Frame - Wood	1st Floor	13.0	20.0	0	9.0	0	180.0	0.084		0.23	0.75	0 %				
___ 13	N	Exterior	Frame - Wood	1st Floor	13.0	40.0	4	9.0	0	363.0	0.084		0.23	0.75	0 %				
___ 14	W	Exterior	Frame - Wood	1st Floor	13.0	17.0	0	9.0	0	153.0	0.084		0.23	0.75	0 %				
___ 15	S	Garage	Frame - Wood	1st Floor	13.0	21.0	4	9.0	0	192.0	0.084		0.23	0.75	0 %				
___ 16	W	Garage	Frame - Wood	1st Floor	13.0	13.0	0	9.0	0	117.0	0.084		0.23	0.75	0 %				

DOORS												(Total Exposed Area = 38 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	S	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²		
___ 2	W	Garage	Insulated	1st Floor	None	0.46	2.00	8	6.00	8	17.8ft²		

WINDOWS																	(Total Exposed Area = 232 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	S	1	Vinyl	Low-E Single	Y	0.36	0.25	N	N	7.0	1	2.33	3.00	1.5	1.0	None	None	
___ 2	S	3	Vinyl	Low-E Single	Y	0.36	0.25	N	N	32.0	2	2.67	6.00	1.5	1.0	None	None	
___ 3	S	7	Vinyl	Low-E Single	Y	0.36	0.25	N	N	32.0	2	2.67	6.00	1.5	1.0	None	None	
___ 4	S	9	Vinyl	Low-E Single	Y	0.36	0.25	N	N	18.0	1	3.00	6.00	1.5	1.0	None	None	
___ 5	E	10	Vinyl	Low-E Single	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.5	1.0	None	None	
___ 6	N	11	Vinyl	Low-E Single	Y	0.36	0.25	N	N	15.5	1	3.00	5.17	1.5	1.0	None	None	
___ 7	N	12	Vinyl	Low-E Double	Y	0.36	0.25	N	N	27.6	2	2.67	5.17	11.5	1.0	None	None	
___ 8	N	12	Metal	Low-E Single	Y	0.36	0.25	N	N	40.0	1	6.00	6.67	11.5	1.0	None	None	
___ 9	N	13	Vinyl	Low-E Single	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	1.5	1.0	None	None	
___ 10	N	13	Vinyl	Low-E Single	Y	0.36	0.25	N	N	31.0	2	3.00	5.17	1.5	1.0	None	None	
___ 11	W	14	Vinyl	Low-E Single	Y	0.36	0.25	N	N	16.0	1	4.00	4.00	1.5	1.0	None	None	

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00040	2229	122.30	229.60	0.1438	7.0	All	19107 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	512 ft²	512 ft²	57 ft	9 ft	1



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INPUT SUMMARY CHECKLIST REPORT

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


HEATING SYSTEM											
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal Entry	HeatPump--- Power	Volts	Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.80	33.1		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		SEER2:15.5	26.1	780	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	1st Floor	0.92 (0.92)	50.00 gal	40 gal	120 deg	Standard	None	12
	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 #	Location	Supply----- R-Value	Area	Return----- R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool	
___ 1	Attic	6.0	531 ft²	Attic	6.0	106 ft²	Default Leakage	Attic	(Default)	(Default)		1	1

TEMPERATURES													
Programable Thermostat: Y				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	7	8	9	10	11	12
___	Cooling (WD)	AM 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___	Cooling (WEH)	AM 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 66	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
___	Heating (WEH)	AM 66	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66



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 PX2707 09/27/2024
 Examiner-License No.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 94

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

283 SE Rolling Meadows,Ft White,FL,

1. New construction or existing		New (From Plans)		10. Wall Types(2055.0 sqft.)		Insulation		Area	
2. Single family or multiple family		Detached		a. Frame - Wood, Exterior		R=13.0		1746.00 ft²	
3. Number of units, if multiple family		1		b. Frame - Wood, Adjacent		R=13.0		309.00 ft²	
4. Number of Bedrooms		3		c. N/A					
5. Is this a worst case?		No		d. N/A					
6. Conditioned floor area above grade (ft²)		2123		11. Ceiling Types(2335.3 sqft.)		Insulation		Area	
Conditioned floor area below grade (ft²)		0		a. Flat ceiling under att (Vented)		R=38.0		2335.30 ft²	
7. Windows**		Description		b. N/A					
a. U-Factor:		Sgl, U=0.36		c. N/A					
SHGC:		SHGC=0.25		12. Roof(Comp. Shingles, Vented) Deck		R=0.0		2552 ft²	
b. U-Factor:		Dbl, U=0.36		13. Ducts, location & insulation level				R ft²	
SHGC:		SHGC=0.25		a. Sup: Attic, Ret: Attic, AH: Attic				6 531	
c. U-Factor:		N/A		b.					
SHGC:				c.					
Area Weighted Average Overhang Depth:		4.411 ft		14. Cooling Systems		kBtu/hr		Efficiency	
Area Weighted Average SHGC:		0.250		a. Central Unit		26.1		SEER2:15.50	
8. Skylights		Description		15. Heating Systems		kBtu/hr		Efficiency	
U-Factor:(AVG)		N/A		a. Electric Heat Pump		33.1		HSPF2:8.80	
SHGC(AVG):		N/A							
9. Floor Types		Insulation		16. Hot Water Systems					
a. Slab-On-Grade Edge Insulation		R= 0.0		a. Electric				Cap: 50 gallons	
b. N/A		R=						EF: 0.920	
c. N/A		R=		b. Conservation features				None	
				17. Credits				CV, 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: Pat Jones Date: 9.23.24

Address of New Home: 283 SE Rolling Meadows City/FL Zip: Ft White,FL,



*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.



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