

Project Name: Copeland Mini Street: 134 S.W. Sedgefield Farms Glen City, State, Zip: Ft White, FL, 32038 Owner: Copeland Design Location: FL, Gainesville	Builder Name: Copeland Permit Office: Columbia Permit Number: Jurisdiction: 221000 County: Columbia(Florida Climate Zone 2)
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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Glass/Floor Area:0.050	Total Proposed Modified Loads:	19.63
	Total Baseline Loads:	30.31

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. PREPARED BY: <u>John Pirk</u> DATE: <u>03/04/2024</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____	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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- Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title: Copeland Mini
Building Type: User
Owner: Copeland
Builder Home ID:
Builder Name: Copeland
Permit Office: Columbia
Jurisdiction: 221000
Family Type: Detached
New/Existing: New (From Plans)
Year Construct: 2024
Comment:

Bedrooms: 1
Conditioned Area: 1000
Total Stories: 1
Worst Case: No
Rotate Angle: 0
Cross Ventilation: No
Whole House Fan: No
Terrain: Suburban
Shielding: Suburban

Address type: Street Address
Lot #: ---
Block/SubDivision: ---
PlatBook: ---
Street: 134 S.W. Sedgefield Farms Glen
County: Columbia
City, State, Zip: Ft White, FL, 32038

CLIMATE

✓ 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

Entire House

1000

10000 cu ft

SPACES

✓ Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

___ 1

Bedroom

330

3300

No

1

1

Yes

Yes

Yes

___ 2

Main Living

670

6700

Yes

1

Yes

Yes

Yes

FLOORS (Total Exposed Area = 1000 sq.ft.)

✓ #

Floor Type

Space

Exposed
Perim(ft)

Area

R-Value
Perim. Joist

U-Factor

Slab Insul.
Vert/Horiz

Tile

Wood

Carpet

___ 1

Slab-On-Grade Edge Ins

Bedroom

53

330 sqft

0 ---

0.473

2 (ft)/0 (ft)

0.00

1.00

0.00

___ 2

Slab-On-Grade Edge Ins

Main Living

87

670 sqft

0 ---

0.473

2 (ft)/0 (ft)

0.00

1.00

0.00

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

Metal

1083 ft²

208 ft²

Unfinished, Galvalume

N

0.9

No

0.4

No

0

22.62

ATTIC

✓ #

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

___ 1

Full attic

Vented

150

1000 ft²

N

N

INPUT SUMMARY CHECKLIST REPORT

CEILING (Total Exposed Area = 1000 sq.ft.)														
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type						
___ 1	Flat ceiling under attic(Vented)	Bedroom	38.0	Blown	330.0ft²	0.049	0.10	Wood						
___ 2	Flat ceiling under attic(Vented)	Main Living	38.0	Blown	670.0ft²	0.049	0.10	Wood						

WALLS (Total Exposed Area = 1400 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	Frame - Steel	Bedroom	19.0	16.0	6	10.0	0	165.0	0.183	0	0.25	0.23	0 %
___ 2	S	Exterior	Frame - Steel	Bedroom	19.0	16.0	6	10.0	0	165.0	0.183	0	0.25	0.23	0 %
___ 3	W	Exterior	Frame - Steel	Bedroom	19.0	20.0	0	10.0	0	200.0	0.183	0	0.25	0.23	0 %
___ 4	N	Exterior	Frame - Steel	Main Living	19.0	33.0	6	10.0	0	335.0	0.183	0	0.25	0.23	0 %
___ 5	E	Exterior	Frame - Steel	Main Living	19.0	20.0	0	10.0	0	200.0	0.183	0	0.25	0.23	0 %
___ 6	S	Exterior	Frame - Steel	Main Living	19.0	33.0	6	10.0	0	335.0	0.183	0	0.25	0.23	0 %

DOORS (Total Exposed Area = 0 sq.ft.)														
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
___ 1	N(Front)	Exterior	Wood	Bedroom	None	0.20	0.10	0	0.10	0	0.1ft²			

WINDOWS (Total Exposed Area = 50 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	W	3	Vinyl	Low-E Double	Y	0.47	0.31	N	N	15.0	1	3.00	5.00	1.3	6.0	Drapes/blinds	Ex. 50%
___ 2	W	3	Vinyl	Low-E Double	Y	0.47	0.31	N	N	15.0	1	3.00	5.00	1.3	8.0	Drapes/blinds	Ex. 50%
___ 3	E	5	Vinyl	Low-E Double	Y	0.49	0.32	N	N	20.0	1	3.00	6.67	14.0	1.0	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00032	843	46.27	86.86	0.1084	5.1	All	10000 cu ft

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedroom
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main Living

HEATING SYSTEM										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal Entry	Heat Pump Power	----Heat Pump Volt	Ducts	Block
___ 1	Electric Heat Pump	Split/Single		HSPF2: 9.30	18.0		0.00	0.00	0.00	sys#0 1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	Split/Single		SEER2:20.0	18.0	600	0.70	Ductless	1

HOT WATER SYSTEM

✓	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___	1	Electric	Tankless	Exterior	0.99 (0.99)	1.00 gal	55 gal	120 deg	Low	None	73
		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

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	Hours 7	8	9	10	11	12
___ Cooling (WD)	AM PM	78 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 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
___ Heating (WD)	AM PM	66 68	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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ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 65

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

134 S.W. Sedgefield Farms Glen,Ft White,FL,32038

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2. Single family or multiple family	Detached	a. Frame - Steel, Exterior	R=19.0	1400.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	1	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1000	11. Ceiling Types(1000.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	1000.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.47	c. N/A		
SHGC:	SHGC=0.31	12. Roof(Metal, Vented)	Deck R=0.0	1083 ft ²
b. U-Factor:	Dbl, U=0.49	13. Ducts, location & insulation level	R	ft ²
SHGC:	SHGC=0.32	a.		
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	6.400 ft	14. Cooling Systems	kBtu/hr	Efficiency
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8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	18.0	HSPF2:9.30
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. ElectricTankless	Cap: 1 gallons	
b. N/A	R=		EF: 0.990	
c. N/A	R=	b. Conservation features		
		17. Credits	None	
			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: _____ Date: _____

Address of New Home: 134 S.W. Sedgefield Farms Glen City/FL Zip: Ft 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 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.

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1^a

Project Name:	Copeland Mini	Builder Name:	Copeland
Street:	134 S.W. Sedgefield Farms Glen	Permit Office:	Columbia
City, State, Zip:	Ft White, FL, 32038	Permit Number:	
Owner:	Copeland	Jurisdiction:	221000
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	ICC
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	ICC
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.



Certificate of Product Ratings

AHRI Certified Reference Number : 209836189 Date : 03-04-2024 Model Status : Active

AHRI Type : HMSV-A-CB-O (Multi-Split Heat Pump, Free Delivery)

Series Name : NV-Series

Outdoor Unit Brand Name : Trane / Mitsubishi Electric

Outdoor Unit Model Number : NTXMMX20A122B*

Indoor Type : Non-Ducted Indoor Units

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh : 18000

SEER : 20.00

EER (A2) - Single or High Stage (95F) : 12.70

Heating Capacity (H12) - Single or High Stage (47F) : 22000

HSPF (Region IV) : 10.00

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2023, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F), btuh : 18000

SEER2 : 20.00

EER2 (A_{Full}) – Single or High Stage (95F) : 12.70

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 22000

HSPF2 (Region IV) : 9.30

Sold in? : USA



†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.

*This refers to the federal tax credit that may be known to consumers as "Inflation Reduction Act (IRA) of 2022 Tax Credit," "25C Tax Credit," or "Energy Efficient Home Improvement Credit." This is not intended to constitute tax or legal advice. Instead, it is for general informational purposes only. AHRI makes no representation or warranty, express or implied or assumes any legal liability or responsibility for the accuracy, completeness, any third party's use of, or the results of the use of potential eligibility for tax credit disclosed on the AHRI Directory of Certified Product Performance and AHRI Certificate of Product Ratings. Potential eligibility for tax credit may not constitute the most up to date information. AHRI is unable to advise or confirm tax credit eligibility. Individuals considering eligibility for the tax credit are advised to confirm eligibility with their equipment installers, tax attorneys or preparers.

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