FORM R405-2023

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 90

The lower the EnergyPerformance Index, the more efficient the home

473 N.W. Ambleside Drive,Lake City,FL,32055

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)		2576
Conditioned floor area below grade (ft²)		0

7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.47	378.33 ft²
SHGC:	SHGC=0.31	
b. U-Factor:	Dbl, U=0.45	36.11 ft²
SHGC:	SHGC=0.36	
c. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		7.561 ft
Area Weighted Average SHGC.		0.314

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	2575.80 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Types(3336.7 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	2901.70 ft²
b Frame - Wood, Adjacent	R=13.0	435.00 ft²
c. N/A		
d. N/A		

11. Ceiling Types(2576.0 sqft.)	Insulation	Area
a. Roof Deck (Unvented)	R=22.7	2576.00 ft²
b. N/A		
c. N/A		

12. Roof(Comp Shingles, Unvent)Deck	R=22.7	2880 ft²

13. Ducts, location & insulation level	R	ft²
a Sup: Attic, Ret: Attic, AH. Garage	6	144
b.		
c.		

14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	45.0	SEER2.15.50

15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	45.0	HSPF2:8.50

16. Hot Water Systems	
a. ElectricTankless	Cap: 1 gallons
	EF: 0.990
b. Conservation features	None
17. Credits	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: 5·21·25

Address of New Home: 473 N.W. Ambleside Drive City/FL Zip: Lake City,FL,32055

*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:	Franz Metz	Builder Name:	Franz Metz
Street:	473 N.W. Ambleside Drive	Permit Office:	Columbia
City, State, Zip:	Lake City, FL, 32055	Permit Number:	
Owner:	Franz Metz	Jurisdiction:	221000
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	CHECK
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	
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 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

AHRI CERTIFIED®
www.ahridirectory.org

Certificate of Product Ratings

AHRI Certified Reference Number 214182959 Date : 05-09-2025 Model Status Active

AHRI Type · HRCU-A-CB (Split System. Heat Pump with Remote Outdoor Unit-Air-Source)

Series 15 Single-Stage Heat Pump with WeatherGuard Top

Outdoor Unit Brand Name TRANE

Outdoor Unit Model Number (Condenser or Single Package) · 5TWX5048A1

Indoor Unit Model Number (Evaporator and/or Air Handler) 5TEM6D07AV51+TDR+TSTAT

The manufacturer of this TRANE product is responsible for the rating of this system combination

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2024, 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 · 45000

SEER2 · 15 50

EER2 (A_{Full}) – Single or High Stage (95F) . 12.00

Heating Capacity ($H1_{Full}$) – Single or High Stage (47F), btuh 43500

HSPF2 (Region IV) 8 50

†"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.

AHRI
AIR-CONDITIONING, HEATING, & REFRIGERATION INSTITUTE
we make life better™

CERTIFICATE NO.: 133912756367174053

FORM R405-2023

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Franz Metz	Builder Name:	Franz Metz
Street:	473 N.W. Ambleside Drive	Permit Office:	Columbia
City, State, Zip:	Lake City, FL, 32055	Permit Number:	
Owner:	Franz Metz	Jurisdiction:	221000
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)

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)			2576	
Conditioned floor area below grade (ft²)			0	
7. Windows(414.4 sqft.)	Description		Area	
a. U-Factor:	Dbl, U=0.47		378.33 ft²	
SHGC:	SHGC=0.31			
b. U-Factor:	Dbl, U=0.45		36.11 ft²	
SHGC:	SHGC=0.36			
c. U-Factor:	N/A		ft²	
SHGC:				
Area Weighted Average Overhang Depth:			7 561 ft	
Area Weighted Average SHGC:			0.314	
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	2575.80 ft²	
b. N/A		R=	ft²	
c. N/A		R=	ft²	

10. Wall Types(3336.7 sqft.)	Insulation	Area	
a. Frame - Wood, Exterior	R=19.0	2901.70 ft²	
b. Frame - Wood, Adjacent	R=13.0	435.00 ft²	
c. N/A			
d. N/A			
11. Ceiling Types(2576.0 sqft.)	Insulation	Area	
a. Roof Deck (Unvented)	R=22.7	2576.00 ft²	
b. N/A			
c. N/A			
12. Roof(Comp. Shingles, Unvent)Deck	R=22.7	2880 ft²	
13. Ducts, location & insulation level		R	ft²
a. Sup: Attic, Ret: Attic, AH: Garage		6	144
b.			
c.			
14 Cooling Systems	kBtu/hr	Efficiency	
a Central Unit	45.0	SEER2:15.50	
15. Heating Systems	kBtu/hr	Efficiency	
a. Electric Heat Pump	45.0	HSPF2:8.50	
16. Hot Water Systems			
a. ElectricTankless		Cap: 1 gallons EF: 0.990	
b. Conservation features		None	
17. Credits		CF, Pstat	

Glass/Floor Area:0.161 Total Proposed Modified Loads: 67.48
Total Baseline Loads: 75.32

PASS

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: _____

DATE: 05/09/2025

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

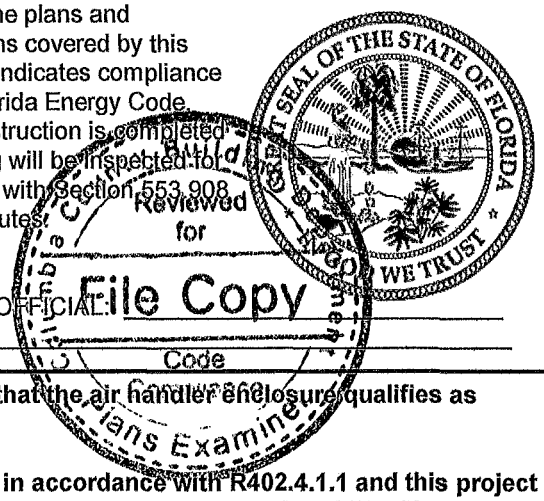
OWNER/AGENT: _____

DATE: 5-21-25

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: _____



- 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 4.94 ACH50 (R402.4.1.2).

FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

FLOORS(Continued)

√	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	R-Value Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___	10	Slab-On-Grade Edge Ins	Foyer	13 5	87 8 sqft	0 0	---	0 473	2 (ft)/0 (ft)	0 00	1 00	0.00
___	11	Slab-On-Grade Edge Ins	Family Room	25	583 sqft	0.0	---	0 473	2 (ft)/0 (ft)	0 00	1.00	0 00
___	12	Slab-On-Grade Edge Ins	Mstr Bedroom	52	288 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0 00
___	13	Slab-On-Grade Edge Ins	Tlt	1	21 sqft	0.0	---	0 473	2 (ft)/0 (ft)	0.00	1 00	0.00
___	14	Slab-On-Grade Edge Ins	Mstr Bathrm	15.5	161.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
___	15	Slab-On-Grade Edge Ins	Mstr WIC	17 5	138 8 sqft	0 0	---	0 473	2 (ft)/0 (ft)	0.00	1.00	0 00
___	16	Slab-On-Grade Edge Ins	Study	40	234 sqft	0 0	---	0.473	2 (ft)/0 (ft)	0.00	1 00	0 00

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul	Pitch (deg)
___	1	Hip	Composition shingles	2880 ft²	0 ft²	0.00	Medium	N	0 9	No	0.9	No	22 7	26.57

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___	1	Full attic	Unvented	0	2576 ft²	N	N

CEILING (Total Exposed Area = 2576 sq.ft.)

√	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___	1	Flat ceiling under attic(Unvented)	Bedroom #3	0 0	Blown	204 0ft²	0 057	0 00	Wood
___	2	Flat ceiling under attic(Unvented)	Bedroom #2	0.0	Blown	174 0ft²	0.057	0.00	Wood
___	3	Flat ceiling under attic(Unvented)	Bathrm	0 0	Blown	90 0ft²	0 057	0.00	Wood
___	4	Flat ceiling under attic(Unvented)	Laundry	0.0	Blown	140 0ft²	0.057	0 00	Wood
___	5	Flat ceiling under attic(Unvented)	Strg	0 0	Blown	15 0ft²	0 057	0 00	Wood
___	6	Flat ceiling under attic(Unvented)	Mud Rm	0 0	Blown	109.0ft²	0 057	0 00	Wood
___	7	Flat ceiling under attic(Unvented)	Kitchen	0 0	Blown	226 0ft²	0.057	0 00	Wood
___	8	Flat ceiling under attic(Unvented)	Pantry	0 0	Blown	65 0ft²	0 057	0.00	Wood
___	9	Flat ceiling under attic(Unvented)	Pwdr	0.0	Blown	39 0ft²	0 057	0 00	Wood
___	10	Flat ceiling under attic(Unvented)	Foyer	0 0	Blown	88 0ft²	0 057	0.00	Wood
___	11	Flat ceiling under attic(Unvented)	Family Room	0 0	Blown	583.0ft²	0 057	0 00	Wood
___	12	Flat ceiling under attic(Unvented)	Mstr Bedroom	0 0	Blown	288.0ft²	0 057	0.00	Wood
___	13	Flat ceiling under attic(Unvented)	Tlt	0 0	Blown	21.0ft²	0 057	0.00	Wood
___	14	Flat ceiling under attic(Unvented)	Mstr Bathrm	0 0	Blown	161.0ft²	0 057	0 00	Wood
___	15	Flat ceiling under attic(Unvented)	Mstr WIC	0.0	Blown	139.0ft²	0 057	0.00	Wood
___	16	Flat ceiling under attic(Unvented)	Study	0.0	Blown	234.0ft²	0 057	0 00	Wood

WALLS (Total Exposed Area = 3337 sq.ft.)

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area sq.ft	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___	1	S	Exterior	Frame - Wood	Bedroom #3	19.0	17.0	0	10.0	0	170.0	0 072	0	0.25	0.23	0 %
___	2	W	Exterior	Frame - Wood	Bedroom #3	19.0	12 0	0	10 0	0	120.0	0.072	0	0 25	0.23	0 %
___	3	N	Exterior	Frame - Wood	Bedroom #2	19 0	15 0	6	10 0	0	155.0	0.072	0	0 25	0 23	0 %
___	4	W	Exterior	Frame - Wood	Bedroom #2	19.0	12 0	0	10.0	0	120.0	0 072	0	0 25	0 23	0 %
___	5	S	Exterior	Frame - Wood	Bathrm	19 0	6.0	0	10 0	0	60.0	0.072	0	0 25	0.23	0 %
___	6	S	Exterior	Frame - Wood	Laundry	19 0	7.0	6	10.0	0	75.0	0 072	0	0.25	0.23	0 %
___	7	N	Exterior	Frame - Wood	Mud Rm	19 0	6 0	6	10 0	0	65.0	0 072	0	0 25	0 23	0 %
___	8	W	Exterior	Frame - Wood	Kitchen	19.0	10.0	6	16.0	8	175.0	0.072	0	0.25	0.23	0 %
___	9	E	Exterior	Frame - Wood	Pantry	19.0	10.0	0	10.0	0	100.0	0.072	0	0.25	0.23	0 %

FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

MASS

√	#	Mass Type	Area	Thickness	Furniture Fraction	Space
___	1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedroom #3
___	2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedroom #2
___	3	Default(8 lbs/sq.ft)	0 ft²	0 ft	0.30	Bathrm
___	4	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Laundry
___	5	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Strg
___	6	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mud Rm
___	7	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Kitchen
___	8	Default(8 lbs/sq ft.)	0 ft²	0 ft	0 30	Pantry
___	9	Default(8 lbs/sq ft.)	0 ft²	0 ft	0 30	Pwdr
___	10	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Foyer
___	11	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Family Room
___	12	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bedroom
___	13	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0 30	Tlt
___	14	Default(8 lbs/sq ft.)	0 ft²	0 ft	0.30	Mstr Bathrm
___	15	Default(8 lbs/sq ft.)	0 ft²	0 ft	0 30	Mstr WIC
___	16	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0 30	Study

HEATING SYSTEM

√	#	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump---- Entry	Power	Volt	Current	Ducts	Block
___	1	Electric Heat Pump	Split/Single		HSPF2: 8 50	45.0		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	Split/Single		SEER2 15 5	45 0	1600	0 70	sys#1	1

HOT WATER SYSTEM

√	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins	Pipe length
___	1	Electric	Tankless	Exterior	0.99 (0.99)	1.0 gal	55 gal	120 deg	Low	Yes	None	111

		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	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	AHU Location	CFM 25 TOT|OUT	QN	AHU SEALED	RLF	HVAC # Heat	HVAC # Cool
___	1	Attic	6.0	144 ft²	Attic	6 0	58 ft²	Default Leakage	Garage	(Default)	(Default)			1	1

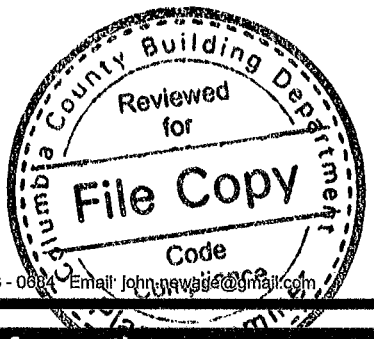
TEMPERATURES

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

wrightsoft

Load Short Form
Entire House
New Age Dimensions, LLC.



Job: Franz Metz
Date: 05/09/2025
By: John Pirkl
Plan: Manual J and D

14080 S E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: Franz Metz
473 N.W. Ambleside Drive, Lake City, FL 32055
Phone: (772) 263 - 2051
Email: sika57@aol.com

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	68	75
Design TD (°F)	35	17
Daily range	-	M
Inside humidity (%)	50	50
Moisture difference (gr/lb)	29	44

Infiltration

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

HEATING EQUIPMENT

Make	Trane
Trade	TRANE
Model	5TWX5048A1
AHRI ref	214182959

Efficiency	8.5 HSPF2	
Heating input		
Heating output	43500	Btuh @ 47°F
Temperature rise	25	°F
Actual air flow	1600	cfm
Air flow factor	0.039	cfm/Btuh
Static pressure	0.51	in H2O
Space thermostat		
Capacity balance point = 33 °F		

COOLING EQUIPMENT

Make	Trane
Trade	TRANE
Cond	5TWX5048A1
Coil	5TEM6D07AV51++TDR+TSTAT
AHRI ref	214182959

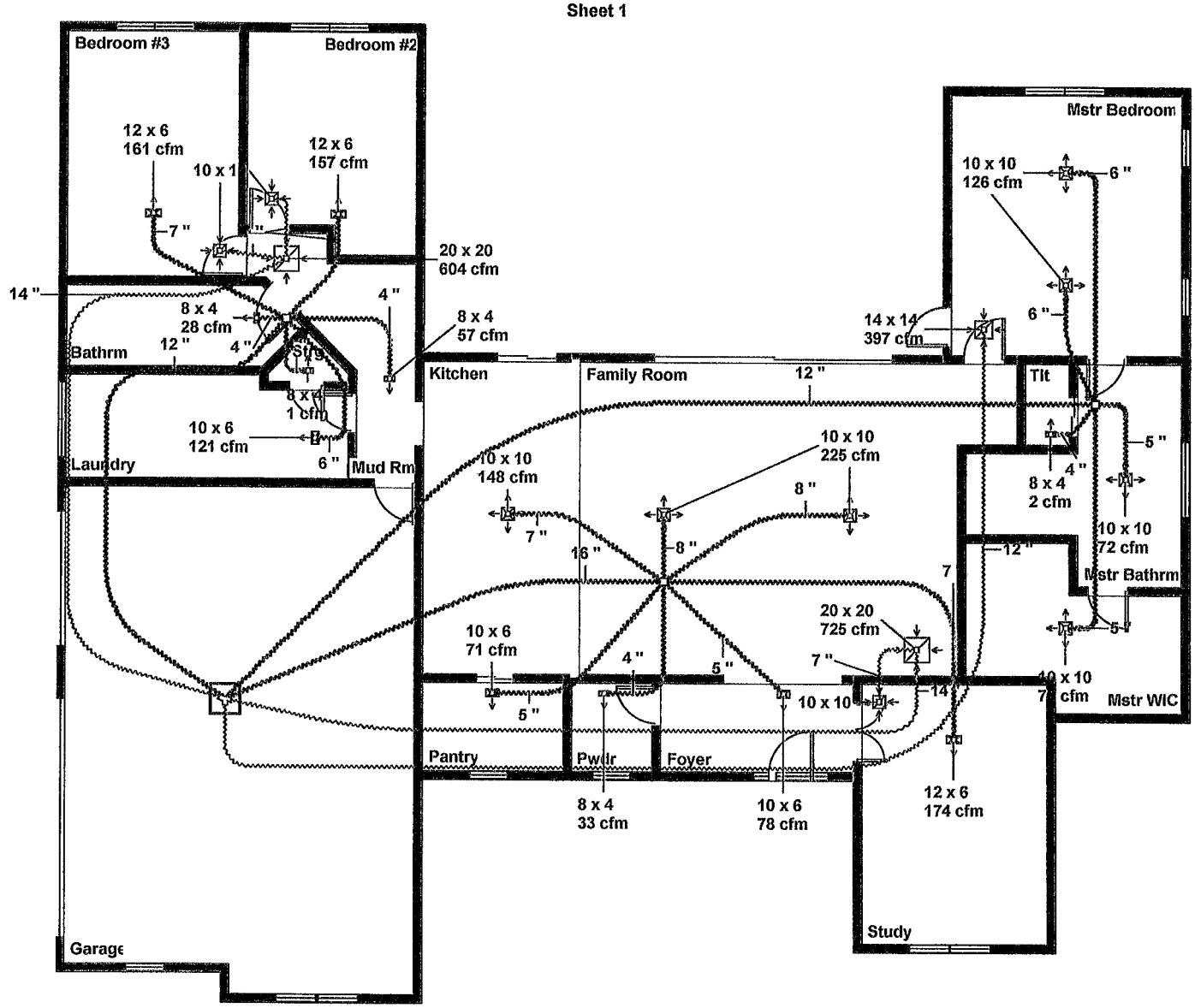
Efficiency	12.0 EER2,15.5 SEER2	
Sensible cooling	31500	Btuh
Latent cooling	13500	Btuh
Total cooling	45000	Btuh
Actual air flow	1600	cfm
Air flow factor	0 047	cfm/Btuh
Static pressure	0.51	in H2O
Load sensible heat ratio	0.82	

Backup:
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom #3	204	3511	3392	135	161
Bedroom #2	174	3311	3312	128	157
Bathrm	90	728	271	28	13
Laundry	140	3133	1569	121	74
Strg	15	36	26	1	1
Mud Rm	109	1490	629	57	30
Kitchen	226	3449	3128	133	148
Pantry	65	1842	740	71	35
Pwdr	39	862	520	33	25
Foyer	88	2012	1335	78	63
Family Room	583	6308	9513	243	451
Mstr Bedroom	288	6551	4803	253	228
Tlt	21	50	36	2	2
Mstr Bathrm	161	1872	731	72	35

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Sheet 1



Job #: Franz Metz **Performed by John Pirkl for:** Franz Metz 473 N W Ambleside Drive Lake City, FL 32055 Phone: (772) 263 - 2051 sika57@aol.com	**New Age Dimensions, LLC.** 14080 S.E 122nd Lane Road Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 john newage@gmail.com	Scale: 1 : 132 Page 1 Right-Suite® Universal 2024 24.0 03 RSU02050 2025-May-09 11:44.14 . t HVAC\Home Owner\Franz Metz.rup

wrightsoft

Duct System Summary

Entire House

New Age Dimensions, LLC.

Job: Franz Metz
Date: 05/09/2025
By: John Pirkl
Plan: Manual J and D

14080 S E 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: Franz Metz
473 N.W. Ambleside Drive, Lake City, FL 32055
Phone: (772) 263 - 2051
Email: sika57@aol.com

	Heating	Cooling
External static pressure	0.51 in H2O	0 51 in H2O
Pressure losses	0 18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.203 / 0.127 in H2O	0 203 / 0.127 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	1600 cfm	1600 cfm
Total effective length (TEL)	404 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm	h	728	28	13	0.880	4.0	0x0	VlFx	41.8	170.0	st3
Bedroom #2	c	3312	128	157	0.880	7.0	0x0	VlFx	48.3	175.0	st3
Bedroom #3	c	3392	135	161	0.880	7.0	0x0	VlFx	52.4	175.0	st3
Family Room	c	4756	122	225	0.880	8.0	0x0	VlFx	35.6	160.0	st2
Family Room-A	c	4756	122	225	0.880	8.0	0x0	VlFx	45.0	165.0	st2
Foyer	h	2012	78	63	0.880	5.0	0x0	VlFx	42.1	160.0	st2
Kitchen	c	3128	133	148	0.880	7.0	0x0	VlFx	43.0	165.0	st2
Laundry	h	3133	121	74	0.880	6.0	0x0	VlFx	51.5	180.0	st3
Mstr Bathrm	h	1872	72	35	0.880	5.0	0x0	VlFx	73.8	165.0	st1
Mstr Bedroom	h	3276	126	114	0.880	6.0	0x0	VlFx	75.3	165.0	st1
Mstr Bedroom-A	h	3276	126	114	0 880	6 0	0x0	VlFx	84.3	165.0	st1
Mstr WIC	h	1827	70	27	0.880	5.0	0x0	VlFx	83.8	165.0	st1
Mud Rm	h	1490	57	30	0.880	4.0	0x0	VlFx	50.8	175.0	st3
Pantry	h	1842	71	35	0.880	5.0	0x0	VlFx	46.0	165.0	st2
Pwdr	h	862	33	25	0.880	4.0	0x0	VlFx	42.6	165.0	st2
Strg	h	36	1	1	0.880	4.0	0x0	VlFx	44.8	175.0	st3
Study	h	4522	174	151	0.880	7.0	0x0	VlFx	61.1	165 0	st2
Tlt	h	50	2	2	0.880	4.0	0x0	VlFx	70.8	165.0	st1