🖶 wrightsoft

Project Summary Entire House

Job: Date: Apr 26, 2021 By:

Waller Heating and Air Cond.

405 N. St. Augustine Rd., Valdosta, GA31601 Phone: 229-244-1200

Project Information

For:

America's Home Place, Michelle Faller Lake City, FL

Notes:

Design Information

Weather: Valdosta Regional AP, GA, US

Winter Design Conditions

Outside db	31 °F
Inside db	70 °F
Design TD	39 °F

Heating Summary

Structure Ducts Central vent (0 cfm)	27102 6695 0	
(none) Humidification Piping Equipment load		Btuh Btuh Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft ²)	2576	2576
Volume (ft ³)	23184	23184
Air changes/hour	0.15	0.08
Equiv. AVF (cfm)	58	31

Heating Equipment Summary

Make Trade Model AHRI	ref
Efficie Heatin	

Heating input Heating output Temperature rise Actual air flow Air flow factor Static pressure Space thermostat 80 AFUE 0 Btuh 0 Btuh 0 °F 1461 cfm 0.043 cfm/Btuh 0 in H2O

Summer Design Conditions

Outside db	97 °F
Inside db	75 °F
Design TD	22 °F
Daily range	M
Relative humidity	50 %
Moisture difference	44 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	25287	Btuh
Ducts	8339	
Central vent (0 cfm) (none)	0	Btuh
Blower	0	Btuh
Use manufacturer's of Rate/swing multiplier Equipment sensible	data r r 1.02 load 34299	n Btuh

Latent Cooling Equipment Load Sizing

Structure Ducts Central vent (0 cfm) (none)		Btuh Btuh Btuh
Equipment latent load	3236	Btuh
Equipment Total Load (Sen+Lat) Req. total capacity at 0.70 SHR	37535 4.1	

Cooling Equipment Summary

0 SEER	DI I
0	Btuh
0	Btuh
1/61	Btuh cfm
	cfm/Btuh
0.043	in H2O
0.91	111120
	0 SEER 0 1461 0.043 0 0.91

Bold/italic values have been manually overridden

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



RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2020 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

- □ This checklist
- □ Form R405-2020 report
- □ Input summary checklist that can be used for field verification (usually four pages/may be greater)
- □ Energy Performance Level (EPL) Display Card (one page)
- HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
- □ Mandatory Requirements (five pages)

Required prior to CO:

- Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 one page)
- A completed 2020 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
- □ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2020 Duct Leakage Test Report Performance Method (usually one page)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

-		an them		
Street:	erica's Home Place (Falle	r Job)	Builder Name: Permit Office:	
	, nelle Faller		Permit Number: Jurisdiction:	
States and the second se	Tallahassee			a Climate Zone 2)
1. New construction or e	visting Now (From Dione)	The second s	
 Single family or multip 		From Plans) Detached	10. Wall Types(2052.0 sqft.) a. Frame - Wood, Exterior	Insulation Area R=13.0 2052.00 ft ²
 Number of units, if mu 	and the State	Detached 1	b. N/A	R= ft ²
4. Number of Bedrooms	intple farmy		c. N/A	R= ft ²
5. Is this a worst case?		5	d. N/A 11. Ceiling Types(2576.0 sqft.)	R= ft ² Insulation Area
 6. Conditioned floor area 	abovo grado (#2)	No 2576 -	a. Under Attic (Vented)	R=38.0 2576.00 ft ²
Conditioned floor area		2576 ⁻ 0	b. N/A	R= ft ²
7. Windows(251.0 sqft.)		Area	c. N/A 12. Ducts, location & insulation lev	R= ft ² vel R ft ²
a. U-Factor:	Dbl, U=0.35	251.00 ft ²	a. a. Sup: Attic, Ret: Attic, AH:	
SHGC: b. U-Factor:	SHGC=0.29 N/A	ft ²	b.	0.1 #9405.0009es
SHGC:	IN/A	п-	c. 13. Cooling Systems	kBtu/hr Efficiency
c. U-Factor:	N/A	ft²	a. Central Unit	48.0 SEER:14.00
SHGC: Area Weighted Average	Overbang Denth	1.285 ft		AND DECEMBER OF AN AN ADDRESS AND ADDRES
Area Weighted Average		0.290	14. Heating Systems	kBtu/hr Efficiency
8. Skylights	Description	Area	a. Electric Heat Pump	48.0 HSPF:8.20
U-Factor:(AVG)	N/A	N/A ft ²		
SHGC(AVG):	N/A		15. Hot Water Systems	
 Floor Types a. Slab-On-Grade Edge 	Insulation Insulation R= 0.0	Area 2576.00 ft ²	a. Electric	Cap: 40 gallons
b. N/A	R=	2370.00 ft ²	h. Conservation features	EF: 0.960
c. N/A	R=	ft²	b. Conservation features	None
			16. Credits	Pstat
Glass/Floor Area: 0.097	Total P	roposed Modifie		DA00
AND TO SHARE THE REAL PROPERTY OF THE PARTY		Total Baselir	ne Loads: 60.03	PASS
I hereby certify that the plat			Review of the plans and	THE ST.
this calculation are in com Code.	ipliance with the Florida	Energy	specifications covered by this calculation indicates compliance	OFTICSTATE
/	1. 1/2	- 1	with the Florida Energy Code.	13/000 ///21
PREPARED BY:			Before construction is completed	EAT NUNO
DATE:	01/18/2	2	this building will be inspected for compliance with Section 553.908	ACIN
	, ,		Florida Statutes.	*
I hereby certify that this bu with the Florida Energy Co	uilding, as designed, is ir	i compliance		COD WE TRUST
OWNER/AGENT:			BUILDING OFFICIAL:	
DATE:			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.

- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

- 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

				PRO	JECT						
Title: America's H Building Type: User Owner: Michelle Fa Builder Name: Permit Office: Jurisdiction: Family Type: Detached New/Existing: New (From Year Construct: Comment:		Place (Faller Job) Bedrooms: Conditioned Are: Total Stories: Worst Case: Rotate Angle: Cross Ventilatior Whole House Fa Terrain: Shielding:		ed Area ies: se: gle: ntilation: use Far	1 No 0	Lot Blog Plat Stre Cou	ck/SubDivi Book:	sion: Colur	t Address nbia		
				CLIN	IATE						
Design Location		Tmy Site		Des 97.5%	ign Temp 5 2.5%		gn Temp Summer	Heating Degree D			aily temp ange
FL, Tallahasse	e	FL_TALLAHASSEE	_REGION	A 28	94	70	75	1545	46	Med	dium
,				BLO	CKS						
Number	Name	Area	Volu	ime							
1	Block1	2576	23184								
				SPA	CES						
Number	Name	Area	Volume	Kitchen	Occupants	Bed	rooms	Finished	a c	ooled	Heated
1	Main	2576	23184	Yes	5	3	5	Yes		Yes	Yes
,				FLO	ORS	(Total E	xposed	Area = 2	2576 s	q.ft.)
# Floor Typ	e	Space	Exposed F	Perim	Perimeter R-V	alue Area	u U-Fact	tor Joist R-	Value Tile	Wood	Carpet
1 Slab-On-G	rade Edge Ins	Main	232		0	2576	ft 0.30)4	0.00	0.00) 1.00
				RO	OF						
/# Type		Materials	Ro Ar		Gable Roof Area Color		Solar Absor.	SA E Tested	Emitt Emit Teste		
1 Hip	c	Composition shingles	s 279	1 ft²	0 ft ² Mediur	n Y	0.96	No	0.9 No	0	22.62
-				AT	ГІС						
/# Туре		Ventilation		Vent F	Ratio (1 in)	Area	RBS	1	RCC		
1 Full attic		Vented			300 :	2576 ft²	Y		N		
				CEIL	.ING	(Total E	xposed	Area = 2	2576 so	q.ft.)
# Ceiling Ty	vpe	S	pace	R-Va	alue Ins. Typ		44720074	s o	ming Frac.		ss Type
1 Under Attic	(Vented)		Main	38	.0 Blown	2576	nandes i se	.024	0.11		Vood

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

	_							۷	VALL	S		(Total	Expo	sed .	Area	= 20	52 sq.	.ft.)
\checkmark	# (Ornt		acent Fo	Wall Type		Space		Cavity R-Value	Wid Ft	lth In	Heig Ft		Area sq.ft.	U- Factor	Sheath R-Valu		. Solar . Absor	Below Grade
	1 2 3 4	N E S W		Exterior Exterior Exterior Exterior	Frame - Woo Frame - Woo Frame - Woo Frame - Woo	d d	Maii Maii Maii Maii	n n	13.0 13.0 13.0 13.0	39.0 75.0 39.0 75.0	0 0	9.0 9.0 9.0 9.0	0 0 0 0	351.0 675.0 351.0 675.0	0.084 0.084 0.084 0.084	•	0.23 0.23 0.23 0.23	0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 %
								D	OOR	S			(Tot	al Ex	pose	ed Are	ea = 6	60 sq.	ft.)
<i>\</i>	# (Drnt		Adjacent	To Door Type		Space		Ste	orms		U-Va	lue		idth t In		eight In	Ar	ea
	1	E W		Exterio Exterio			Main Main			None None			46 46	6.00 3.00	0 0	6.00 6.00	8 8		Oft² Oft²
								WI	NDO	ws			(Tota	I Exp	osed	Area	1 = 25	51 sq.	ft.)
/ #	¥ (Vall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp S	Storm	Area	ı	O Depth	verhan Separ		Interior	Shade	Scre	eening
	1 M 2 E 3 S 4 N	E	1 2 3 4	Vinyl Vinyl Vinyl Vinyl	Double (Tinted) Double (Tinted) Double (Tinted) Double (Tinted)	Yes Yes Yes Yes	0.35 0.35 0.35 0.35	0.29 0.29 0.29 0.29	N N N	NNNN	18.0f 101.0 18.0f 114.0f	ft ² 1. t ² 0.	0 ft 0 in 0 ft 6 in 0 ft 0 in 0 ft 6 in	0.0 ft 0.0 ft	0 in 0 in	Drapes Drapes	s/blinds s/blinds s/blinds s/blinds	N N	one one one one
								INFIL	TRA	TION	N						_		
/#	¥ \$	Scope		M	ethod	SL	A CFI	M50	ELA	E	qLA	ACI	н ,	ACH50			Space	(s)	
	1	Who	lehou	ise Proj	oosed ACH(50)	0.00	040 27	05	148.39	27	8.59	0.14	00	7.0			All		
									MASS	5									
/ #	<i>‡</i>	Mas	s Typ	e		Are	ea		Thickne	ess	F	urnitur	e Fractio	on	S	Space			
	1	Defa	ult(8	lbs/sq.ft.)		0 f	't²		0 ft			0	.30			Main			
							HE	ATI	NG S	YSTI	EM								
/ #	ŧ	Syst	em Ty	ype	S	ubtype/S	peed	AHRI #	Effi	iciency		pacity Btu/hr	 Entry			eatPump Volt C		Oucts	Block
	1	Elec	tric H	eat Pump)	None/Sir	ngle		HSF	PF: 8.20) 4	48.0		0.	00 (0.00	0.00 s	ys#1	1
							CC	OLII	NG S	YST	EM								
V #	ŧ	Syst	em Ty	уре	S	ubtype/S	peed	AHRI #	E	fficienc	су		acity tu/hr		r Flow cfm	SH	IR I	Duct	Block
	1	Cent	ral Ur	nit		None/S	Single		SI	EER:14	1.0 4	48.0			1440	0.1	75 s	ys#1	1

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

					HOT	WAT	ER SY	STEM						
/#	System Type	Subtype)	Location		EF(UEF) Cap	Use	SetPnt	Fixture	Flow I	Pipe Ins	s. Pip	e length
1	Electric	None		Attic		0.96 (0.9	3) 40.00 ga	80 gal	120 deg	Stand	dard	None		99
	Recirculation System		rc Control Type		Loop length	Branch length	Pump power	DWHR	Faciliti Connec			DWHR Eff	Othe	er Credits
1	No				NA	NA	NA	No	NA	NA	4	NA	No	ne
						DL	JCTS							
/ Duc' #		ply R-Value A		Retration	urn R-Value		Leakage T	уре	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF H	HVAC # leat Cool
1 <i>A</i>	Attic	8.0 542	ft ² Attic		8.0	135 ft²	Prop. Leak	Free	Main		3 	0.03	0.50	1 1
					TI	EMPE	RATUR	ES						
Prog Cooli Heat Venti	ing [X] Jan	ostat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	[] N [] N [] N	/lay [K] Jun [] Jun] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[] Oc [] Oc [X] Oc	t ()] Nov K] Nov K] Nov	[] Dec [X] Dec [] Dec
	ermostat Sched hedule Type	ule: HERS	2006 Refere 1	ence 2	3	4	5	Hou 6	rs 7	8	9	10	11	12
Co	ooling (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
Co	oling (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
	ating (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
He		Pivi	00	00	00	00	00	00		~ ~				

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX* = 98

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

,,FL,

1. New construction or ex	New (Fro	New (From Plans)			
2. Single family or multipl	0	Detached			
3. Number of units, if mul		1			
4. Number of Bedrooms		5			
5. Is this a worst case?		No			
 Conditioned floor area Conditioned floor area 		2576 0			
 7. Windows** a. U-Factor: SHGC: 	Description Dbl, U=0.35 SHGC=0.29		Area 251.00 ft²		
 b. U-Factor: SHGC: 	N/A		ft ²		
c. U-Factor: SHGC:	N/A		ft ²		
Area Weighted Average Area Weighted Average	pth:	1.285 ft 0.290			
 Skylights U-Factor:(AVG) SHGC(AVG): 	Description N/A N/A		Area N/A ft²		
 Floor Types a. Slab-On-Grade Edge b. N/A c. N/A 	Insulation F	Insulation R= 0.0 2 R= R=	Area 2576.00 ft ² ft ² ft ²		

 Wall Types(2052.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 11. Ceiling Types(2576.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 	$\begin{array}{cccc} \text{Insulation} & \text{Area} \\ \text{R=13.0} & 2052.00 \ \text{ft}^2 \\ \text{R=} & \text{ft}^2 \\ \text{R=} & \text{ft}^2 \\ \text{R=} & \text{ft}^2 \\ \text{Insulation} & \text{Area} \\ \text{R=38.0} \ 2576.00 \ \text{ft}^2 \\ \text{R=} & \text{ft}^2 \\ \text{R=} & \text{ft}^2 \\ \text{R=} & \text{ft}^2 \\ \text{R=} & \text{ft}^2 \end{array}$
 Ducts, location & insulation level a. a. Sup: Attic, Ret: Attic, AH: Main b. c. 	n R ft ² n 8 541.8
13. Cooling Systemsa. Central Unit	kBtu/hr Efficiency 48.0 SEER:14.00
14. Heating Systemsa. Electric Heat Pump	kBtu/hr Efficiency 48.0 HSPF:8.20
15. Hot Water Systems a. Electric	Cap: 40 gallons EF: 0.960
b. Conservation features16. Credits	None 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: City/FL Zip: ,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.