#### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

riolida Depa	ittilient of business	and Profession	ai Regulation - Residential Pe	normance Method						
Project Name:	Metcalf Residence		Builder Name:							
Street:	EI		Permit Office: Permit Number:							
City, State, Zip: Owner:	, FL,		Jurisdiction:							
Design Location:	FL, Gainesville		County: Columbia(Florida Climate Zone 2)							
New construction	n or existing N	lew (From Plans)	10. Wall Types(1365.0 sqft.)	Insulation Area						
2. Single family or	multiple family	Detached	a. Frame - Steel, Exterior	R=13.0 840.00 ft <sup>2</sup>						
3. Number of units	•	1	b. Frame - Wood, Adjacent c. N/A	R=13.0 525.00 ft <sup>2</sup>						
4. Number of Bedr	ooms	1	d. N/A							
5. Is this a worst ca	ase?	No	11. Ceiling Types(796.0 sqft.)	Insulation Area						
6. Conditioned floo	or area above grade (ft²)	796	<ul><li>a. Single assembly, with (Unvented b. N/A</li></ul>	d) R=30.0 796.00 ft <sup>2</sup>						
	or area below grade (ft²)	0	c. N/A							
	sqft.) Description	Area	12. Roof(Metal, Unvent)	Deck R=0.0 839 ft <sup>2</sup>						
a. U-Factor:	Dbl, U=0.26	102.00 ft <sup>2</sup>	13. Ducts, location & insulation level							
SHGC: b. U-Factor:	SHGC=0.20 N/A	ft <sup>2</sup>	a. Sup: Main, Ret: Garage, AH: Ga b.	rage 6 194						
SHGC:	14/71		C.							
c. U-Factor:	N/A	ft <sup>2</sup>	14. Cooling Systems	kBtu/hr Efficiency						
SHGC:	varage Overhand Danth	1 500 H	a. Central Unit	24.0 SEER2:16.00						
Area Weighted Av	verage Overhang Depth:	1.500 ft 0.200								
8. Skylights	Description	Area	15. Heating Systems	kBtu/hr Efficiency						
U-Factor:(AVG)	N/A	N/A ft <sup>2</sup>	a. Electric Heat Pump	24.0 HSPF2:8.20						
SHGC(AVG):	N/A									
<ol><li>Floor Types</li></ol>	Insul		16. Hot Water Systems							
a. Slab-On-Grade	_	.0 $796.00 \text{ ft}^2 \text{ ft}^2$	a. Electric	Cap: 50 gallons						
b. N/A c. N/A	R= R=	ft <sup>2</sup>	h Companyation footywas	EF: 0.920						
0			b. Conservation features	None						
			17. Credits	CF, Pstat						
Glass/Floor Area: 0	).128 T	otal Proposed Modifie Total Baselir		PASS						
				17.00						
	t the plans and specification in compliance with the Fl		Review of the plans and specifications covered by this	THE STAN						
Code.	in compliance with the Fi	onda Energy	calculation indicates compliance	OF THE STATE						
			with the Florida Energy Code.	5/10/21						
PREPARED BY: _			Before construction is completed this building will be inspected for	JRU						
DATE:	8-9-23		this building will be inspected for compliance with Section 553.908	3						
DATE:			Florida Statutes.	* * * * * * * * * * * * * * * * * * * *						
I hereby certify that	t this building, as designe	d, is in compliance		COD WE TRUS						
with the Florida End	ergy Code. Oliver Metcalf		BUILDING OFFICIAL:	WE						
DATE: 0.40	23		BUILDING OFFICIAL: DATE:							
-··· <del>-</del> · — 8.10.2	<del>∠ə</del>									

- 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 4.73 ACH50 (R402.4.1.2).

## FORM R405-2022S INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title: Building Type: Owner: Builder Home IE Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construct: Comment:	Detached New (From Plans)		Bedrooms Condition Total Stor Worst Ca Rotate Ar Cross Ver Whole Ho Terrain: Shielding	ed Area: ries: se: ngle: ntilation: buse Fan	1 No 0	rate/Rur	Lot #: Block/ PlatBo Street Count City, S	:		et Addre	ess		
CLIMATE													
Design Location		Tmy Site		Des 97.5%	ign Temp 2.5%		nt Design /inter So		Heating Degree D		Design Moisture	Dai Rar	ly temp nge
FL, Gainesvill	е	FL_GAINESVILLE	_REGIONA	32	92		70	75	1305.5		51	Mediu	ım
				BLO	CKS								
V Number	Name	Area	Vol	ume									
1	Block1	796	716	4 cu ft									
	SPACES												
√ Number	Name	Area	Volume	Kitchen	Оссиј	oants	Bedro	oms	Finishe	ed	Coole	ed H	eated
1	Main	796	7164	Yes	2		1		Yes		Ye	S	Yes
				FLO	ORS		(	Total E	xpose	d Ar	ea = 7	96 sq	.ft.)
√# Floor Ty	/ре	Space	Exposed	Perim	Perimeter	R-Value	e Area	U-Facto	r Joist R	-Value	Tile V	Vood	Carpet
1 Slab-On-0	Grade Edge Ins	Main	151.66	6	0		796 ft	0.535			0.20	0.20	0.60
				RO	OF								
√# Type		Materials		oof ea		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1 Gable or s	shed	Metal	83	39 ft²	132 ft²	Light	N	0.6	No	0.9	No	0	18.43
				ΑT	TIC								
√# Type		Ventilation	า	Vent F	Ratio (1 in)	) Aı	rea	RBS		IRCC			
1 No attic		Unvented	I		0	79	6 ft²	N		N			
	CEILING (Total Exposed Area = 796 sq.ft.)												
√# Ceiling	Туре		Space	R-Va	alue Ins	s. Type	Area	u U-Fa	actor Fr	aming	Frac.	Truss	з Туре
1 Single ass	sembly, with airspace	e(Unvented)	Main	30	).O E	Blown	796.0	ft² 0.0	)55	0.11		W	ood

## **INPUT SUMMARY CHECKLIST REPORT**

								WA	LLS	<b>3</b>		(	Tota	al Exp	osed	Area	= 136	65 sq.	ft.)
<b>\</b> #	Ornt	-	acent To	Wall Type		Space	Э	Ca\ R-V	rity ′alue	Width Ft I			ight In	Area sq.ft.	U- Factor	Sheat R-Val		. Solar . Absor	Below . Grade
1 2 3 4	S		Exterior Garage Exterior Exterior	Frame - Stee Frame - Woo Frame - Stee Frame - Stee	od el	n 1	Main Main Main Main	1; 1;	3.0 3.0 3.0 3.0	58.0 17.0	0 4 4 0	9.0 9.0 9.0 9.0	0	234.0 525.0 156.0 450.0	0.094 0.215	ļ 5	0.23 0.23 0.23 0.23	0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 %
<b>DOORS</b> (Total Exposed Area = 153 sq.ft.)																			
<b>\sqrt</b>	Ornt		Adjacent	To Door Type	e	Space	Э		Stor	ms		U-V	alue		Vidth Ft In		leight t In	Ar	ea
123456	S W W		Exterio Garage Exterio Exterio Exterio	e Insulate r Insulate r Insulate r Insulate	d d d	Mai Mai Mai Mai Mai	n n n n		No No No No	one one one one one one		() () ()	0.40 0.40 0.40 0.40 0.40 0.40	3.00 3.00 6.00 3.00 5.00	0 0 0 0 0 0 0 0	6.00 6.00 6.00 6.00 6.00	8 9 8 9 8	20. 40.	
	WINDOWS (Total Exposed Area = 102 sq.ft.)																		
<b>/</b> #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp S	Storm	Total Area (ft²)		Same \ Jnits	Vidth (ft)	Height (ft)	Overl Depth (ft)		Interior	Shade	Screen
1 2 3	W	3 4 4	Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double	Υ	0.26 0.26 0.26	0.20 0.20 0.20	N N N	N N N	30.0 60.0 12.0			3.00 3.00 4.00	5.00 5.00 3.00	1.5 1.5 1.5	2.3 2.3 2.3	No	one one one	None None None
							INF	ILTI	RAT	ION									
<b>/</b> #	Scope	е	Me	ethod	S	SLA	CFM50	Е	LA	EqL	Α.	A	CH	ACH5	0 Spac	ce(s)	Infiltra	tion Tes	t Volume
1	Wh	olehou	ıse Prop	posed ACH(50)	0.0	0027	565	30	.98	58.′	17	0.0	972	4.7	A	II	7164	cu ft	
							(	SAR	AG	E									
<b>/</b> #		F	Floor Area	1	Roof Are	ea	Exp	oosed	Wall P	erimete	er		Avg	. Wall He	eight	Exp	osed Wa	all Insula	ition
1			1120 ft²		1120 ft	2			87 ft					14 ft			,	1	
MASS																			
<b>/</b> #	Ma	ss Typ	е		А	rea		Th	icknes	ss		Furnitu	ire Fra	action	;	Space			
1	Def	ault(8	lbs/sq.ft.)		C	) ft²			0 ft				0.30			Main			
							HEAT	ING	SY	STE	M								
<b>V</b> #	Sys	tem T	ype		Subtype	/Speed	AHR	l #	Effic	iency		Capacity kBtu/hr		Geoth ntry P	nermal H ower		np [ Current	Ducts	Block
1	Ele	ctric H	eat Pump	)	None/S	Single			HSPF	2: 8.20		24.0		(	0.00	0.00	0.00 s	sys#1	1

#### FORM R405-2022S

## **INPUT SUMMARY CHECKLIST REPORT**

	COOLING SYSTEM														
$\checkmark$	# Sy	stem Type		Sul	otype/Spee	d	AHRI #	Effic	ciency	Capacity kBtu/hr		r Flow cfm	SHR	Duct	Block
_	_1 Ce	ntral Unit			None/Sing	le		SEE	R2:16.0 2	24.0		720	0.85	sys#1	1
	HOT WATER SYSTEM														
$\bigvee$	# Sys	stem Type	Subtype		Location		EF(UE	F) Cap	Use	SetPnt	Fixture	Flow	Pipe Ins	. Pip	e length
	_1 Ele	ectric	None		Main		0.92 (0.	.92) 50.00	gal 40 ga	l 120 deg	Stan	dard	None		99
		circulation System		с Control Гуре		Loop length	Brand			R Faciliti Connec			DWHR Eff	Othe	r Credits
_	_ 1	No				NA	NA	NA	No	NA	N.	A	NA	Nor	ie
							D	UCTS							
	Duct # L	Sup ocation F	ply R-Value A		Reteation I	urn R-Value		Leakage	е Туре	Air Handler	CFM 25 TOT	CFM 25 OUT	ō QN	RLF H	HVAC # eat Cool
	_ 1 Main		6.0 194	ft² Garage		6.0	48 ft²	Prop. Lea	ak Free	Garage			0.03	0.50	1 1
						TE	EMPI	ERATU	RES						
(  -	Programa Cooling Heating Penting	able Thermo [] Jan [X] Jan [] Jan	ostat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[ ] Apr [ ] Apr [X] Apr	[] N [] N [] N	1ay 1ay	Fans: N [X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[]0 []0 [X]C	ct [>	] Nov (] Nov (] Nov	[] Dec [X] Dec [] Dec
$\checkmark$		ostat Schedule Type	ule: HERS 2	2006 Refere 1	ence 2	3	4	5	Ho 6	ours 7	8	9	10	11	12
_	_ Coolin	g (WD)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
_	_ Coolin	g (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
_	_ Heatin	g (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
	_ Heatin	g (WEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68

Address of New Home:

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

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

,,FL,

<ol> <li>New construction or existing</li> </ol>	ng New (I	rom Plans)	10. Wall Types(1365.0 sqft.)	Insulation	
2. Single family or multiple fa	mily	Detached	a. Frame - Steel, Exterior	R=13.0	840.00 ft <sup>2</sup>
3. Number of units, if multiple	family	1	b. Frame - Wood, Adjacent c. N/A	R=13.0	525.00 ft <sup>2</sup>
4. Number of Bedrooms		1	d. N/A		
5. Is this a worst case?		No	11. Ceiling Types(796.0 sqft.)	Insulation	
<ol><li>Conditioned floor area abo Conditioned floor area belo</li></ol>	• , ,	796 0	<ul><li>a. Single assembly, with (Unvente</li><li>b. N/A</li><li>c. N/A</li></ul>	d) R=30.0	796.00 ft <sup>2</sup>
a. U-Factor: Db	scription I, U=0.26 IGC=0.20 A	Area 102.00 ft <sup>2</sup> ft <sup>2</sup>			839 ft <sup>2</sup> R ft <sup>2</sup> 6 194
SHGC: c. U-Factor: N// SHGC:		ft <sup>2</sup>	c. 14. Cooling Systems a. Central Unit	kBtu/hr 24.0 S	Efficiency EER2:16.00
Area Weighted Average Ove Area Weighted Average SH		1.500 ft 0.200			
8. Skylights De U-Factor:(AVG) N/// SHGC(AVG): N///		Area N/A ft <sup>2</sup>	<ul><li>15. Heating Systems</li><li>a. Electric Heat Pump</li></ul>	kBtu/hr 24.0	Efficiency HSPF2:8.20
<ul><li>9. Floor Types</li><li>a. Slab-On-Grade Edge Inst</li><li>b. N/A</li><li>c. N/A</li></ul>	Insulation ulation R= 0.0 R= R=	Area 796.00 ft <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup>	16. Hot Water Systems a. Electric	Сар	o: 50 gallons EF: 0.920
0. 14//	–		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: Oliver Metcalf Date:

\*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.

City/FL Zip: ,FL,

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

