FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

THE RESERVE OF THE PARTY OF THE				
Project Name: Street: City, State, Zip: Owner: Design Location:	Housecraft homes D 10523 US Highway 4 Alachua , FL , 32615 Dawson FL, Gainesville	441	Builder Name: Housecraft Homes Permit Office: Permit Number: Jurisdiction: County: Alachua (Florida Climate	Zone 2)
New construction	or existing	New (From Plans)	9. Wall Types (1672.0 sqft.)	Insulation Area
2. Single family or m	CONTRACTOR OF CONTRACTOR O	Single-family	a. Concrete Block - Int Insul, Exterior	R=5.0 1496.00 ft ²
Number of units, i		1	 b. Frame - Wood, Adjacent 	R=13.0 176.00 ft ²
Number of Bedroo		3	c. N/A d. N/A	R= ft²
5. Is this a worst cas		3 No	10. Ceiling Types (1624.0 sqft.)	R= ft² Insulation Area
227 227 727 727 7			a. Under Attic (Vented)	R=38.0 1624.00 ft ²
	r area above grade (ft²)	r contents.	b. N/A c. N/A	R= ft²
Marchaell Transfer	r area below grade (ft²)		11. Ducts	R= ft² R ft²
7. Windows(169.8 s a. U-Factor: SHGC:	sqft.) Description Dbl, U=0.33 SHGC=0.23	Area 169.83 ft²	a. Sup: Attic, Ret: Attic, AH: Garage	6 324.8
b. U-Factor: SHGC:	N/A	ft²	12. Cooling systems a. Central Unit	kBtu/hr Efficiency 23.2 SEER:14.00
c. U-Factor: SHGC;	N/A	ft²	13. Heating systems	LOUIS Efficiency
d. U-Factor: SHGC;	N/A	ft²	a. Electric Heat Pump	kBtu/hr Efficiency 23.2 HSPF:8.20
	verage Overhang Dept			
Area Weighted Av		0.230	14. Hot water systems a. Electric	200 -000
8. Floor Types (162		Insulation Area	a. Elecuic	Cap: 40 gallons EF: 0.920
a. Slab-On-Grade b. N/A	Edge Insulation	R=0.0 1624.00 ft ²	 b. Conservation features 	EF. 0.320
c. N/A		R= ft² R= ft²	None	
0.707		R= II	15. Credits	CF, Pstat
Glass/Floor Area	ı: 0.105	Total Proposed Modifie Total Baseline		PASS
this calculation are Code. PREPARED BY: DATE:	at this building, as denergy Code.	(Tight seal In)	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.	GREAT STATE OF THE
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 requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

				PROJECT	Г							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Housecraft hor User Dawson 1 Housecraft Hou Single-family New (From Pla		Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	d Area: 16 es: 1 e: No gle: 0			Lot # Block PlatE Stree Cour	k/Subdivis Book: et:	sion: 1 A p: A	O523 US H Nachua Nachua Sachua,	ghway	441
				CLIMATE								
√ Desi	gn Location	TMY Site		Desig 97.5 %	n Temp 6 2.5 %		sign Tem r Summ		eating ree Day	Design s Moistur	-1-17:5	Temp inge
FL,	Gainesville	FL_GAINESVILLE	_REGI	32	92	70	75	1	305.5	51	Me	edium
				BLOCKS								
Number	Name	Area	Volume									
1	Block1	1624	12992									
				SPACES		i						
Number	Name	Area	Volume K	(itchen Oc	cupants	Bedrooi	ms Ir	nfil ID	Finishe	d Coo	ed	Heat
1	Main	1624	12992	Yes	3	3	1	1	Yes	Yes		Yes
				FLOORS	Ĭ.							
V #	Floor Type	Space	Perin	neter R-	/alue	Area				Tile Wo	od Ca	rpet
1 Slai	o-On-Grade Edge	Insulatio Ma	ain 209	ft	0	1624 ft ²				0.22 0.2	22 0.	.56
				ROOF								
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (de
1	Gable or shed	Composition shing	les 1816 ft ²	406 ft²	Medium	N	0.96	No	0.9	No	0	26.
				ATTIC								
√ #	Туре	Ventila	ation	Vent Ratio (1	in)	Area	RBS	IRO	cc			
1	Full attic	Vent	ed	300	1	624 ft ²	N	١	٧			
				CEILING			-					
V #	Ceiling Type		Space	R-Value	Ins Ty	ре	Area	Fram	ning Fra	c Truss	Туре	

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

							WA	LLS								
V #	Ornt		ljacer	nt Wall	Type	Space	Cavity R-Value	Wid	th In	Heigh	ht	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade
_ 1	NW	Gar	age		ne - Wood	Main		22	88	8		176.0 ft ²		0.111	0.150000	
2	NW	Exte	erior	Con	crete Block - Int Insu	l Main	5	31		8		248.0 ft ²		0	0.150000	0
3	NE	Exte	erior	Con	crete Block - Int Insu	l Main	5	52		8		416.0 ft ²		0	0.150000) 0
4	SE	Exte	erior	Con	crete Block - Int Insu	l Main	5	52		8		416.0 ft ²		0	0.150000	0
5	sw	Exte	erior	Con	crete Block - Int Insu	l Main	5	52		8		416.0 ft ²		0	0.150000) 0
							DO	ORS								
$\sqrt{}$	#		Ornt		Door Type	Space			Storms	U-	-Value	e Ft	Width In	Heigh Ft	it , In	Area
	1	9	NW		Insulated	Main			None		.46	3		6	8 2	O ft²
	2		NW		Insulated	Main			None		.46	3		6	8 2	O ft²
	3		SE		Insulated	Main			None		.46	1		6	8 6	.7 ft²
					Orient	ation sh	WINI own is the er	DOWS		d orient	ation.	2				
/		V	Vall										hang			
V	#			Frame	Panes	NFRC	U-Factor	SHGC	Imp	Ar	ea		Separation	Int Sha	ade S	creenir
	1	NW	2	Vinyl	Low-E Double	Yes	0.33	0.23	Ν	30.0	O ft²	2 ft 0 in	1 ft 6 in	Drapes/I	blinds	None
	2	NW	2	Vinyl	Low-E Double	Yes	0.33	0.23	Ν	10.5	5 ft²	2 ft 0 in	1 ft 6 in	Drapes/	blinds	None
	3	NW	2	Vinyl	Low-E Double	Yes	0.33	0.23	Ν	3.0	ft ²	2 ft 0 in	1 ft 6 in	Drapes/I	blinds	None
	4	NE	3	Vinyl	Low-E Double	Yes	0.33	0.23	Ν	30.0	O ft²	2 ft 0 in	1 ft 6 in	Drapes/I	blinds	None
	5	NE	3	Vinyl	Low-E Double	Yes	0.33	0.23	Ν	4.0	ft ²	2 ft 0 in	1 ft 6 in	Drapes/I	blinds	None
	6	SE	4	Vinyl	Low-E Double	Yes	0.33	0.23	Ν	33.3	3 ft²	2 ft 0 in	1 ft 6 in	Drapes/I	blinds	None
	7	SE	4	Vinyl	Low-E Double	Yes	0.33	0.23	Ν	25.0	O ft²	2 ft 0 in	1 ft 6 in	Drapes/I	blinds	None
	8	SE	4	Vinyl	Low-E Double	Yes	0.33	0.23	Ν	15.0	O ft²	2 ft 0 in	1 ft 6 in	Drapes/I	blinds	None
	9	SW	5	Vinyl	Low-E Double	Yes	0.33	0.23	Ν	4.0	ft²	2 ft 0 in	1 ft 6 in	Drapes/I	blinds	None
	10	SW	5	Vinyl	Low-E Double	Yes	0.33	0.23	N	15.0	O ft²	2 ft 0 in	1 ft 6 in	Drapes/I	blinds	None
							GA	RAGE								
$\sqrt{}$	#		Floor	Area	Ceiling Ar	ea	Exposed \	Wall Per	imeter	Avç	g. Wa	ll Height	Expose	ed Wall In	sulation	
-	1		382.	8 ft²	382.8 ft ²		(64 ft			8	ft		1		
							INFILT	RATIC	N							
8	Scope		M	ethod	SL	A	CFM 50	ELA		EqLA		ACH	ACH	H 50		
Mb	olehous	e P	ropo	sed AC	H(50) .00025	4	1082.7	59.44	1	11.78		.0956		5		

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

						HEAT	ING SYS	ГЕМ							
$\sqrt{}$	# S	ystem Type		Subtype				Efficiency	/ Car	pacity		27.7	Block	Duct	ts
	1 E	lectric Heat Pu	mp/	None				HSPF:8.2	23.21	kBtu/hr			1	sys#	1
					0	COOL	ING SYS	ГЕМ							
$\sqrt{}$	# S	ystem Type		Subtype			E	fficiency	Capacity	Air F	Flow	SHR	Block	Duct	ts
	1 0	entral Unit/		None			8	EER: 14	23.2 kBtu/h	r 696	cfm	0.75	1	sys#	1
					Н	OT W	ATER SY	STEM							
\vee	#	System Type	SubType	Locati	on	EF	Ca	0	Use	SetPnt		Co	onservatio	n	
	1	Electric	None	Garag	je	0.92	40 g	al	60 gal	120 deg			None		
					SOLA	R HO	T WATER	SYSTE	M						
\checkmark	FSEC Cert #	Company Na	ame		5	System	Model #	Co	ollector Mode		ollector Area		rage ume	FEF	
	None	None									ft²				
							DUCTS								
\checkmark	#	Supp Location R-	oly Value Area	Loca	Returr	Area	Leakag	е Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC Heat C	-
	1	Attic	6 324.8 f	t Atti	ic 8	31.2 ft ²	Default l		Garage	(Default)	(Defaul	lt)		1	1
						_	PERATUR	RES							
2	able The	rmostat: Y				ng Fans									
Cooling Heating Venting	[] Ja [X] Ja [] Ja	n []Feb n [X]Feb n []Feb	[] Mar [X] Mar [X] Mar	Apr Apr X Apr	[]	May May May	[X] Jun [] Jun [] Jun	[X] Jul Jul Jul	[X] Aug Aug Aug	[X] Ser Ser Ser		Oct Oct Oct	[] Nov [X] Nov [X] Nov	[x] B	ec ec
Thermosta Schedule T		le: HERS 200	06 Reference 1	2	3	4	5	6 6	ours 7	8	9	10	11	12	
Cooling (W	'D)	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 (W	EH)	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	
Heating (W	(D)	AM PM	66 68		66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66	
Heating (W	/EH)	AM PM	66 68		66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66	
		PIM	88	08	08	80	MASS	80	08	08	00	80	66	00	
Ma	ss Type			Area			Thickness		Furniture Fra	ction	S	pace			
	fault(8 lb	s/sa.ft.		O ft²			0 ft		0.3		-17.1	Main			

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
		a) Supply ducts R6.0
Single-family or multiple-family	Single-family	b) Return ducts R 6.0
		c) AHU location Garage
3. No. of units (if multiple-family)	31	
4. Number of bedrooms	43	13. Cooling system: Capacity 23.2
		a) Split system SEER
5. Is this a worst case? (yes/no)	5No	b) Single package SEER
		c) Ground/water source SEER/COP
Conditioned floor area (sq. ft.)	6. <u>1624</u>	d) Room unit/PTAC EER
		e) Other14.0
7. Windows, type and area		
a) U-factor:(weighted average)	7a. <u>0.330</u>	
b) Solar Heat Gain Coefficient (SHGC)	7b. 0.230	14. Heating system: Capacity 23.2
c) Area	7c. 169.8	a) Split system heat pump HSPF
1.0 / 0.004/00/00/		b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)	8a. NA	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8b. NA	e) Gas furnace, LPG AFUE
by colai from dain coomolom (chiac)	00	f) Other 8.20
9. Floor type, insulation level:		1) Gitter 6.20
a) Slab-on-grade (R-value)	9a0.0	
b) Wood, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (R-value)		
c) Concrete, raised (n-value)	9c	
10 Wall type and insulation:		b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, LPG EF
A. Exterior:	1011	d) Solar system with tank EF
Wood frame (Insulation R-value)	10A1	e) Dedicated heat pump with tank EF
Masonry (Insulation R-value)	10A2. <u>5.0</u>	f) Heat recovery unit HeatRec%
B. Adjacent:		g) Other
Wood frame (Insulation R-value)	10B1. <u>13.0</u>	
2. Masonry (Insulation R-value)	10B2	
		HVAC credits claimed (Performance Method)
Ceiling type and insulation level		a) Ceiling fans <u>Yes</u>
a) Under attic	11a. <u>38.0</u>	b) Cross ventilation No
b) Single assembly	11b	c) Whole house fan No
c) Knee walls/skylight walls	11c	d) Multizone cooling credit
d) Radiant barrier installed	11d. <u>No</u>	e) Multizone heating credit
(229)	W	f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the F	lorida Building Code, Ene	ergy Conservation, if not DEFAULT.
I certify that this home has complied with the	Florida Building Code, Er	nergy Conservation, through the above energy
saving features which will be installed (or exc		
display card will be completed based on insta		
D. III.		
Builder Signature:		Date:
Address of New House Common Co	244	0.75
Address of New Home: 10523 US Highway	441	City/FL Zip: Alachua, FL 32615