### **RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST**

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

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance Method shall include:

- □ This checklist
- □ A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an 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 for the Performance Method:

- Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 one page)
- A completed Envelope Leakage Test Report (usually one page)
- □ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)

#### FORM R405-2017

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:Saunders - 122 SW Albany TerStreet:122 SW Albany TerCity, State, Zip:Fort White , FL , 32038Owner:Design Location:FL, Jacksonville		Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: 221000 County: Columbia (Florida Clima	ate Zone 2)
SHGC: SHGC=0.21	Area 52.23 ft <sup>2</sup>	<ul> <li>9. Wall Types (992.0 sqft.) <ul> <li>a. Insulated Concrete Form, Exterior</li> <li>b. N/A</li> <li>c. N/A</li> </ul> </li> <li>10. Ceiling Types (912.0 sqft.) <ul> <li>a. Under Attic (Vented)</li> <li>b. N/A</li> <li>c. N/A</li> </ul> </li> <li>11. Ducts <ul> <li>a. Sup: Attic, Ret: Attic, AH: BA2</li> </ul> </li> <li>12. Cooling systems</li> </ul>	Insulation         Area           R=22.0         992.00 ft²           R=         ft²           R=         ft²           R=         ft²           Insulation         Area           R=30.0         912.00 ft²           R=         ft²           R=         ft²           R=         ft²           R=         ft²           R=         ft²           R=         ft²           R         ft²           6         182           kBtu/hr         Efficiency
Area Weighted Average SHGC:     0       8. Floor Types (912.0 sqft.)     Insulation	ft <sup>2</sup> ft <sup>2</sup> 2.000 ft. 0.210 Area 112.00 ft <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup>	<ul> <li>a. Central Unit</li> <li>13. Heating systems <ul> <li>a. Electric Heat Pump</li> </ul> </li> <li>14. Hot water systems <ul> <li>a. Electric</li> <li>b. Conservation features</li> <li>None</li> </ul> </li> <li>15. Credits</li> </ul>	17.8 SEER:14.00 kBtu/hr Efficiency 17.8 HSPF:8.20 Cap: 40 gallons EF: 0.950 Pstat
(i) (i) ass/Eloor Area: () () 57	oposed Modified Total Baseline I		PASS
I hereby certify that the plans and specifications cov this calculation are in compliance with the Florida E Code. PREPARED BY: <u>Lic Struble E-Ca</u> DATE: <u>December 16, 2020</u> I hereby certify that this building, as designed, is in with the Florida Energy Code. OWNER/AGENT:	alcs Plus, Inc.	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.	

- 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 7.00 ACH50 (R402.4.1.2).

ORM R4	05-2017 <b>IN</b>	PUT SL	JMMAF	RY CHE	CKLIST R	EPORT				
				PRO	JECT					
Title: Building Owner N # of Units Builder N Permit O Jurisdicti Family T New/Exis Commer	lame: s: 1 Jame: office: Columbia County on: 221000 ype: Single-family sting: New (From Plans)	any T	Total St Worst C Rotate A Cross V	oned Area: tories: Case:	2 912 1 No 0 No		Address Typ Lot # Block/Subdiv PlatBook: Street: County: City, State, 2	vision: 122 S Colu	et Address SW Albany mbia White , 32038	
				CLIM	IATE					
$\checkmark$	Design Location	TMY Site			Design Temp 97.5 % 2.5 %	Int Desig Winter		Heating egree Days		Daily Temp Range
	FL, Jacksonville FL_JA	CKSONVILL	E_INT		32 93	70	75	1281	49	Medium
	BLOCKS									
Numbe	er Name	Area	Volun	ne						
1	Entire House	912	729	6						
				SPA	CES					
Numbe	er Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Coolec	Heated
1	M BR	184	1472	No	2	1	1	Yes	Yes	Yes
2	BR2	132	1056	No	1	1	1	Yes	Yes	Yes
3	BA2	84	672	No	0		1	Yes	Yes	Yes
4	Laundry	72	576	No	0		1	Yes	Yes	Yes
5	M WIC	24	192	No	0		1	Yes	Yes	Yes
6	M BA	72	576	No	0		1	Yes	Yes	Yes
7	KiLivDin	344	2752	Yes	0		1	Yes	Yes	Yes
				FLO	ORS					
$\checkmark$	# Floor Type	Space	Р	erimeter Pe	erimeter R-Value	e Area	Joist R-Val	ue Til	e Wood	Carpet
	1 Slab-On-Grade Edge Insulation	M	BR	26 ft	0	184 ft <sup>2</sup>		1	0	0
	2 Slab-On-Grade Edge Insulation	B	72	24 ft	0	132 ft <sup>2</sup>		1	0	0
	3 Slab-On-Grade Edge Insulation	BA	42	6 ft	0	84 ft²		1	0	0
	4 Slab-On-Grade Edge Insulation	Lau	ndry	18 ft	0	72 ft <sup>2</sup>		1	0	0
	5 Slab-On-Grade Edge Insulation	9 M V	VIC	4 ft	0	24 ft²		1	0	0
	6 Slab-On-Grade Edge Insulation	M	BA	18 ft	0	72 ft <sup>2</sup>		1	0	0
	7 Slab-On-Grade Edge Insulation	o KiLiv	vDin	28 ft	0	344 ft <sup>2</sup>		1	0	0

### FORM R405-2017

### **INPUT SUMMARY CHECKLIST REPORT**

					RO	OF									
$\checkmark$	#	Туре	Materials	Roof Area			Roof Color			Solar Absor.	SA Tested	Emitt	Emitt Tested	Decl Insul	
	1	Gable or She	ed Composition shingle	s 961 ft <sup>2</sup>	<sup>2</sup> 152	ft²	Mediur	n Y	Y	0.85	No	0.9	No	0	18.4
ATTIC															
$\checkmark$	#	Туре	Ventilat	ion	Vent Ra	atio (1 i	in)	Area	a	RBS	IRO	CC			
	1	Full attic	Vente	d	1	50		912 ft	2	Y	١	١			
CEILING															
$\checkmark$	#	Ceiling Typ	0e	Space	R-Val	ue	Ins T	Гуре		rea	Fram	ning Frac		s Type	
	1	Under Attic	· · · ·	M BR	30		Blov			84 ft <sup>2</sup>		0.1		/ood	
	2	Under Attic	. ,	BR2	30		Blov			82 ft <sup>2</sup>		0.1		lood	
	3	Under Attic	, , , , , , , , , , , , , , , , , , ,	BA2	30		Blov			4 ft <sup>2</sup>		0.1		lood	
	4	Under Attic		Laundry	30		Blov			2 ft <sup>2</sup>	0.1		Wood		
	5	Under Attic	· · · ·	M WIC	30		Blown			4 ft <sup>2</sup>	0.1 0.1		Wood Wood		
	6	Under Attic		M BA	30		Blov			2 ft <sup>2</sup>					
	7	Under Attic	: (vented)	KiLivDin	30		Blov	vn	34	4 ft <sup>2</sup>		0.1	v	/ood	
					WAI										
#	Ornt	Adjacent	Vall Type	Space	Cavity R-Value	Wid Ft	lth In	Heigh Ft Ir		Area	Sheat R-Va	hing Fra lue Fra	iming S iction A	Solar Absor	Below Grade%
1	NE	Exterior	Insulated Concrete Form	M BR	22	12	0	8 0	) (	96.0 ft²	0		0	0.54	0
2	NW	Exterior	Insulated Concrete Form	M BR	22	14	0	8 0	) 1	12.0 ft <sup>2</sup>	0		0	0.54	0
3	NE	Exterior	Insulated Concrete Form	BR2	22	12	0	8 0	) (	96.0 ft <sup>2</sup>	0		0	0.54	0
4	SE	Exterior	Insulated Concrete Form	BR2	22	12	0	8 0	) (	96.0 ft <sup>2</sup>	0		0	0.54	0
5	SE	Exterior	Insulated Concrete Form	BA2	22	6	0	8 0		48.0 ft <sup>2</sup>	0			0.54	0
6	SE	Exterior	Insulated Concrete Form	,	22	6	0	8 0		48.0 ft <sup>2</sup>	0			0.54	0
7	SW		Insulated Concrete Form	,	22	12	0	8 0		96.0 ft <sup>2</sup>	0			0.54	0
8	NW		Insulated Concrete Form		22	4		8 0		32.0 ft <sup>2</sup>	0			0.54	0
9	SW	Exterior	Insulated Concrete Form	MBA	22	12	0	8 0		96.0 ft <sup>2</sup>	0			0.54	0
10	NW		Insulated Concrete Form	MBA	22	6	0	8 0		48.0 ft <sup>2</sup>	0			0.54	0
11	NE		Insulated Concrete Form		22	14	0	8 0		12.0 ft <sup>2</sup>				0.54	0
12	SW	Exterior	Insulated Concrete Form	KiLivDin	22	14	0	8 0	) 1	12.0 ft <sup>2</sup>	0		0	0.54	0
,					DOC	DRS									
$\checkmark$	#	Ornt	Door Type	Space			Storms	U	-Value	F	Width t Ir	ן F	Height t In	А	rea
	1	SW	Insulated L	aundry			None		.39	;	3	6	8	20	) ft²
	2	NE	Insulated K	iLivDin			None		.39	;	3	6	8	20	) ft²

### **INPUT SUMMARY CHECKLIST REPORT**

✓         Wall Ort         Wall D         Frame         Panes         NFRC         U-Factor SHGC         Imp         Area         Depth Separation         Int Shade         Screening           1         NE         1         Vinyi         Low-E Double         Yes         0.34         0.21         N         15.0 ft²         2 ft 0 in         0 ft 6 in         None         None           2         NE         3         Vinyi         Low-E Double         Yes         0.34         0.21         N         15.0 ft²         2 ft 0 in         0 ft 6 in         None         None           3         NE         11         Vinyi         Low-E Double         Yes         0.34         0.21         N         7.5 ft²         2 ft 0 in         0 ft 6 in         None         None           4         SW         12         Vinyi         Low-E Double         Yes         0.34         0.21         N         7.2 ft²         2 ft 0 in         0 ft 6 in         None         None           1         Wholehouse         Proposed ACH(50)         .000356         851.2         46.73         87.88         .1339         7          ys#1           1         Wholehouse         Proposed ACH(50)						(	Orientation st		DOWS	roposed (	orientation				
1         NE         1         Vinyl         Low-E Double         Yes         0.34         0.21         N         15.0 ff²         21 0 in         016 in         None         None           2         NE         3         Vinyl         Low-E Double         Yes         0.34         0.21         N         15.0 ff²         21 0 in         016 in         None         None         None           3         NE         11         Vinyl         Low-E Double         Yes         0.34         0.21         N         15.0 ff²         21 0 in         016 in         None         None         None           4         SW         12         Vinyl         Low-E Double         Yes         0.34         0.21         N         15.0 ff²         21 0 in         016 in         None         None         None           4         SW         12         Vinyl         Low-E Double         Yes         0.21         N         7.5 ff²         21 0 in         016 in         None         Sigs         7.5 ff²         <	$\checkmark$	#	Ornt									Ove	0	Int Shade	e Screening
3         NE         11         Vinyl         Low-E         Double         Yes         0.34         0.21         N         15.0 ft²         2 ft0 in         0 ft 6 in         None         None           4         SW         12         Vinyl         Low-E         Double         Yes         0.34         0.21         N         7.2 ft²         2 ft0 in         0 ft 6 in         None         None         None           #         Scope         Method         SLA         CFM 50         ELA         EqLA         ACH         ACH 50         Zer         Zer <thz< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>•</th><th>•</th><th></th><th><u>v</u></th></thz<>												•	•		<u>v</u>
		2	NE	3	Vinyl	Low-E Double	Yes	0.34	0.21	Ν	15.0 ft <sup>2</sup>	2 ft 0 in	0 ft 6 in	None	None
#         Scope         Method         SLA         CFM 50         ELA         EqLA         ACH         ACH 50           1         Wholehouse         Proposed ACH(50)         .000356         851.2         46.73         87.88         .1339         7           ✓         #         System Type         Subtype         Speed         Efficiency         Capacity         Block         Ducts		3	NE	11	Vinyl	Low-E Double	Yes	0.34	0.21	Ν	15.0 ft <sup>2</sup>	2 ft 0 in	0 ft 6 in	None	None
#         Scope         Method         SLA         CFM 50         ELA         EqLA         ACH         ACH 50         France           1         Wholehouse         Proposed ACH(50)         .000366         851.2         46.73         87.88         .1339         7		4	SW	12	Vinyl	Low-E Double	Yes	0.34	0.21	Ν	7.2 ft <sup>2</sup>	2 ft 0 in	0 ft 6 in	None	None
1         Wholehouse         Proposed ACH(50)         .000356         851.2         46.73         87.88         .1339         7           ✓         #         System Type         Subtype         Speed         Efficiency         Capacity         Block         Ducts	INFILTRATION														
V       #       System Type       Subtype       Speed       Efficiency       Capacity       Block       Ducts         1       Electric Heat Pump/       Split       Singl       HSPF:8.2       17.8 kBtu/hr       1       sys#1         ✓       #       System Type       Subtype       Subtype       Efficiency       Capacity       Air Flow       SHR       Block       Ducts         ✓       #       System Type       Subtype       Subtype       Efficiency       Capacity       Air Flow       SHR       Block       Ducts         1       Central Unit/       Split       Singl       SEER: 14       17.8 kBtu/hr       cfm       0.7       1       sys#1         ✓       #       System Type       SubType       Location       EF       Cap       Use       SetPnt       Conservation         ✓       #       System Type       SubType       Location       EF       Cap       Use       SetPnt       Conservation         1       Electric       None       Laundry       0.95       40 gal       50 gal       120 deg       None       FEF         ✓       FSEC       Company Name       System Model #       Collector Model #       Area	#	Scope		r	Method		SLA	CFM 50	ELA	Ec	ιLA	ACH	AC	CH 50	
√         #         System Type         Subtype         Speed         Efficiency         Capacity         Block         Ducts           1         Electric Heat Pump/         Split         Singl         HSPF.8.2         17.8 kBtu/hr         1         sys#1           COOLING SYSTEM           √         #         System Type         Subtype         Subtype         Efficiency         Capacity         Air Flow         SHR         Block         Ducts           √         #         System Type         Subtype         Subtype         Efficiency         Capacity         Air Flow         SHR         Block         Ducts           √         #         System Type         Subtype         Subtype         Efficiency         Capacity         Air Flow         SHR         Block         Ducts            1         Central Unit/         Split         Singl         SEER: 14         17.8 kBtu/hr         cfm         0.7         1         sys#1           /         #         System Type         SubType         Location         EF         Cap         Use         SetPnt         Conservation         None         None         None         None         System Hodel #         Collector Model	1 V	Wholehou	use	Prop	osed AC	CH(50) .C	000356	851.2	46.73	87	.88	.1339		7	
1       Electric Heat Pump/       Split       Singl       HSPF:8.2       17.8 kBtu/hr       1       sys#1         COOLING SYSTEM         ✓       #       System Type       Subtype       Subtype       Efficiency       Capacity       Air Flow       SHR       Block       Ducts         1       Central Unit/       Split       Singl       SEER: 14       17.8 kBtu/hr       cfm       0.7       1       sys#1         V       #       System Type       Subtype       Location       EF       Cap       Use       SetPnt       Conservation         V       #       System Type       Subtype       Location       EF       Cap       Use       SetPnt       Conservation         1       Electric       None       Laundry       0.95       40 gal       50 gal       120 deg       None       None         V       FSEC Cert #       Company Name       System Model #       Collector Model #       Collector Area       Storage Volume       FEF         None       None       None       THE       System Type       Storage Location       FEF         Min       None       None       System System Model #       Collector Model #		HEATING SYSTEM													
✓       #       System Type       Subtype       Subtype       Efficiency       Capacity       Air Flow       SHR       Block       Ducts		#	Sy	stem <sup>-</sup>	Туре	:	Subtype	Speed	E	Efficiency	, (	Capacity		Blo	ock Ducts
√         #         System Type         Subtype         Subtype         Efficiency         Capacity         Air Flow         SHR         Block         Ducts		1	Ele	ectric I	Heat Pur	np/	Split	Singl	ŀ	ISPF:8.2	2 17.	8 kBtu/hr		1	sys#1
		COOLING SYSTEM													
✓       #       System Type       SubType       Location       EF       Cap       Use       SetPnt       Conservation         1       Electric       None       Laundry       0.95       40 gal       50 gal       120 deg       None         ✓       FSEC Cert #       Company Name       System Model #       Collector Model #       Collector Area       Storage Volume       FEF         ✓       Mone       None       None       FEF       E       E       E       E         ✓       Mone       None       None       FEF       E       E       E       E       E         ✓       FSEC Cert #       Company Name       System Model #       Collector Model #       Collector Area       Storage Volume       FEF         ✓       FSEC Cert #       Company Name       E       E       E       E       E         ✓       FSEC Cert #       Company Name       E       E       E       E       E       E         ✓       FSEC Cert #       Company Name       E       E       E       E       E       E         ✓       Hone       None       None       E       E       E       E       E <t< td=""><td><math>\checkmark</math></td><td>#</td><td>Sy</td><td>stem -</td><td>Туре</td><td>:</td><td>Subtype</td><td>Subtype</td><td>e E</td><td>fficiency</td><td>Capaci</td><td>ty A</td><td>ir Flow</td><td>SHR Blo</td><td>ock Ducts</td></t<>	$\checkmark$	#	Sy	stem -	Туре	:	Subtype	Subtype	e E	fficiency	Capaci	ty A	ir Flow	SHR Blo	ock Ducts
$\checkmark$ System Type       SubType       Location       EF       Cap       Use       SetPnt       Conservation          1       Electric       None       Laundry       0.95       40 gal       50 gal       120 deg       None         SULAR HOT WATER SYSTEM $\checkmark$ FSEC       Company Name       System Model #       Collector Model #       Collector Area       Storage Volume       FEF $\frown$ None       None       None       System Model #       Collector Model #       Area       Volume       FEF $\frown$ None       None $\frown$ $\frown$ $\frown$ $\bullet$ <t< td=""><td></td><td> 1</td><td>Ce</td><td>entral l</td><td>Jnit/</td><td>:</td><td>Split</td><td>Singl</td><td>S</td><td>EER: 14</td><td>17.8 kBt</td><td>u/hr</td><td>cfm</td><td>0.7 1</td><td>sys#1</td></t<>		1	Ce	entral l	Jnit/	:	Split	Singl	S	EER: 14	17.8 kBt	u/hr	cfm	0.7 1	sys#1
1       Electric       None       Laundry       0.95       40 gal       50 gal       120 deg       None        N       SOLAR HOT WATER SYSTEM       SOLAR HOT WATER SYSTEM       Collector       Storage       Storage       Volume       FEF        N       FSEC Cert #       Company Name       System Model #       Collector Model #       Collector Area       Storage Volume       FEF        N       None       None       ft²       FEF        N       None       Supply Location R-Value Area       Return Location Area       Air       CFM 25       CFM25 OUT       QN       RLF       HVAC # Heat								HOT WAT	ER SYS	БТЕМ					
SOLAR HOT WATER SYSTEM         V       FSEC Cert #       Company Name       System Model #       Collector Model #       Collector Area       Storage Volume       FEF         Mone       None       ft²       '       '       ft²       '        '        '       '       ' <td><math>\sim</math></td> <td>#</td> <td>9</td> <td>Systen</td> <td>n Type</td> <td>SubType</td> <td>Location</td> <td>EF</td> <td>Cap</td> <td></td> <td>Use</td> <td>SetP</td> <td>nt</td> <td>Conserv</td> <td>ation</td>	$\sim$	#	9	Systen	n Type	SubType	Location	EF	Cap		Use	SetP	nt	Conserv	ation
V       FSEC Cert #       Company Name       System Model #       Collector Model #       Collector Area       Storage Volume       FEF         Mone       None       ft²        ft²         FEF         Jubble       Jubble       Jubble       Jubble        Storage Volume       FEF         V       Image: System Model #       Collector Model #       ft²        FEF         Jubble       Image: System Model #       Image: System Model #       Image: Storage Volume       FEF          Image: System Model #       Image: System Model #       Image: Storage Volume       Image: Storage Volume       FEF         Image: System Model #       Image: System Model #       Image: Storage Volume       Image: Storage Volume       FEF         Image: System Model #       Image: Storage Volume		1	E	Electri	С	None	Laundry	0.95	40 ga	l	50 gal	120 de	èg	None	Э
Cert #       Company Name       System Model #       Collector Model #       Area       Volume       FEF         None       None       ft²        ft²							SOL	AR HOT W	/ATER	SYSTE	M				
DUCTS         Justice       Justice         Justice	$\checkmark$			Com	ipany Na	ime		System Mod	del #	Co	ellector Mo	del #		•	FEF
Supply Return Air CFM 25 CFM25 HVAC # # Location R-Value Area Location Area Leakage Type Handler TOT OUT QN RLF Heat Cool		N	one	None	9								ft²		
V # Location R-Value Area Location Area Leakage Type Handler TOT OUT QN RLF Heat Cool								DU	ICTS						
	$\checkmark$	#							Leakage	e Type				QN RI	

### FORM R405-2017

### **INPUT SUMMARY CHECKLIST REPORT**

	TEMPERATURES													
Programa	Programable Thermostat: Y Ceiling Fans:													
Cooling Heating Venting	[ ] Jan [X] Jan [ ] Jan	[ ] Feb [X] Feb [ ] Feb	[ ] Mar [X] Mar [X] Mar	[ ] A   A [X] A	or [ or ] or [	] May   May ] May	[X] Jun [  ] Jun [  ] Jun	[X] Jul [ ] Jul [ ] Jul	[X] Aug [ ] Aug [ ] Aug	[X] §	Sep Sep Sep	Oct Oct [X] Oct	[ ] Nov [X] Nov [X] Nov	[ ] Dec [X] Dec [ ] Dec
Thermostat	t Schedule:	HERS 2006	6 Reference	Э				Н	ours					
Schedule T	Туре		1	2	3	4	5	6	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 78
Heating (W	/D)	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
Heating (W	/EH)	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
							MASS							
Ма	iss Type			Are	a		Thickness		Furniture Fra	ction		Space		
De	fault(8 lbs/so	q.ft.		0 ft	2		0 ft		0.3			M BR		
De	fault(8 lbs/so	q.ft.		ft²			ft		0.3			BR2		
De	fault(8 lbs/so	q.ft.		ft²			ft		0.3			BA2		
De	fault(8 lbs/so	q.ft.		ft²			ft		0.3			Laundry	1	
De	fault(8 lbs/so	q.ft.		ft²			ft		0.3			M WIC		
De	fault(8 lbs/so	q.ft.		ft²			ft		0.3			M BA		
De	fault(8 lbs/so	q.ft.		ft²			ft		0.3			KiLivDir	ו	

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX\* = 83

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

1. New home or, addition	1. <u>New (From</u> Plans)	12. Ducts, location & insulation level a) Supply ducts R <u>6.0</u>
2. Single-family or multiple-family	2. Single-family	b) Return ducts R <u>6.0</u> c) AHU location BA2
3. No. of units (if multiple-family)	31	
4. Number of bedrooms	42	13. Cooling system:Capacity 17.8a) Split systemSEER 14.0
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6. <u>912</u>	d) Room unit/PTAC EER e) Other
<ul> <li>7. Windows, type and area</li> <li>a) U-factor:(weighted average)</li> <li>b) Solar Heat Gain Coefficient (SHGC)</li> <li>c) Area</li> </ul>	7a. <u>0.340</u> 7b. <u>0.210</u> 7c. <u>52.2</u>	14. Heating system: Capacity <u>17.8</u> a) Split system heat pump HSPF <u>8.2</u> b) Single package heat pump HSPF
<ul><li>8. Skylights</li><li>a) U-factor:(weighted average)</li><li>b) Solar Heat Gain Coefficient (SHGC)</li></ul>	8a. <u>NA</u> 8b. <u>NA</u>	c) Electric resistance COP d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other
<ol> <li>9. Floor type, insulation level:         <ul> <li>a) Slab-on-grade (R-value)</li> <li>b) Wood, raised (R-value)</li> <li>c) Concrete, raised (R-value)</li> </ul> </li> <li>10. Wall type and insulation:         <ul> <li>A. Exterior:</li> <li>1. Wood frame (Insulation R-value)</li> <li>2. Masonry (Insulation R-value)</li> <li>B. Adjacent:                 <ul> <li>1. Wood frame (Insulation R-value)</li> <li>Concrete:</li> <li>1. Wood frame (Insulation R-value)</li> <li>D. Adjacent:</li> <li>1. Wood frame (Insulation R-value)</li> </ul> </li> </ul> </li> </ol>	9a. <u>0.0</u> 9b. <u>9</u> 9 9c 10A1 10A2. <u>22.0</u>	15. Water heating systema) Electric resistanceEFb) Gas fired, natural gasEFc) Gas fired, LPGEFd) Solar system with tankEFe) Dedicated heat pump with tankEFf) Heat recovery unitHeatRec%g) Other
<ul> <li>2. Masonry (Insulation R-value)</li> <li>11. Ceiling type and insulation level <ul> <li>a) Under attic</li> <li>b) Single assembly</li> <li>c) Knee walls/skylight walls</li> <li>d) Radiant barrier installed</li> </ul> </li> </ul>	10B2 11a. <u>00</u> 11b 11c 11d. <u>Yes</u>	16. HVAC credits claimed (Performance Method)         a) Ceiling fans         b) Cross ventilation         c) Whole house fan         d) Multizone cooling credit         e) Multizone heating credit         f) Programmable thermostat

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

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: <u>122 SW Albany Ter</u>	City/FL Zip: <u>Fort White, FL 32038</u>			

Florida Building Code, Energy Conservation, 6th Edition (2017) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:

122 SW Albany Ter Fort White , FL , 32038 Permit Number:

MANDATORY REQUIREMENTS See individual code sections for full details.

SECTION R401 GENERAL	

**R401.3 Energy Performance Level (EPL) display card (Mandatory).**The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.

R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

**Exception:** Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.

**R402.4.1 Building thermal envelope** building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

**R402.4.1.1 Installation.**The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

**R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

**Exception:** Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.

2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.

- 3. Interior doors, if installed at the time of the test, shall be open.
- 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
- 6. Supply and return registers, if installed at the time of the test, shall be fully open.

**R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.

**R402.4.3 Fenestration air leakage/**Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

## MANDATORY REQUIREMENTS - (Continued)

**R402.4.4 Rooms containing fuel-burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

- 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
- 2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

**R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

#### R403.1 Controls.

### **SECTION R403 SYSTEMS**

**R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system.

**R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

**R403.3.2 Sealing (Mandatory)** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.

**R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.

R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods:

- 1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
- Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.

#### Exceptions:

- 1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
- 2. Duct testing is not mandatory for buildings complying by Section 405 of this code.

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums.

**PA403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

**R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

**R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory)**Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.

**R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

**R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.

# MANDATORY REQUIREMENTS - (Continued)

heat traps installed on both the inl	ets and outlets. External heat traps s	ed with integral heat traps and having hall consist of either a commercially av water distribution line and cold water lin	ailable heat trap or a						
R403.5.6 Water heater efficienci	es (Mandatory).								
	· · · · · · · · · · · · · · · · · · ·	ystems shall be equipped with automa berature settings for the intended use.							
		rked circuit breaker shall be provided to hall be provided to permit the energy su ned off.							
Equipment used to prov	r 4 of the Florida Building Code, Ene	ipment installed in residential units sha rgy Conservation, Commercial Provision nbination system shall satisfy all stated riteria of Section R403.5.6.2.1.	ons, for the type of equipment installed						
factor of the syste Certified Solar Sy and SRCC Standa	R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:								
	with a tilt angle between 10 degrees at an orientation within 45 degrees of	and 40 degrees of the horizontal; and of true south.							
R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.									
R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.									
<b>Exception:</b> Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.									
	<b>R403.6.2 Ventilation air.</b> Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:								
	ange per hour minimums for resident , shall be the maximum rates allowed	ial buildings in ASHRAE 62.2, Ventilati I for residential applications.	on for Acceptable						
		hall be provided to conditioned space f baces adjacent to swimming pools or sp							
		the walls of the space(s) from which ai e insulated to a minimum of R-19, spac							
R403.7 Heating and cooling equipment (Mandatory). R403.7.1 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.									
WF	TABLE R403. IOLE-HOUSE MECHANICAL VE	6.1 ENTILATION SYSTEM FAN EFFIC	CACY						
FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY <sup>a</sup> (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)						
Range hoods	Any	2.8 cfm/watt	Any						
In-line fan	Any	2.8 cfm/watt	Any						
Bathroom, utility room	10	1.4 cfm/watt	<90						

For SI: 1 cfm = 28.3 L/min.

Bathroom, utility room

Bathroom, utility room

2.8 cfm/watt

90

a.

Any

### MANDATORY REQUIREMENTS - (Continued)

**R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.

The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

- Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
- When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

#### R403.7.1.2 Heating equipment capacity.

R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.

R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.

**R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.

**R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:

- 1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
- 2. A variable capacity system sized for optimum performance during base load periods is utilized.

**R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.

**R403.9 Snow melt and ice system controls (Mandatory)** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).

R403.10 Pools and permanent spa energy consumption (Mandatory). shall be in accordance with Sections R403.10.1 through R403.10.5. The energy consumption of pools and permanent spas

**R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

#### Exceptions:

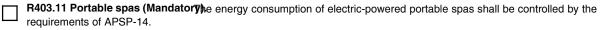
- 1. Where public health standards require 24-hour pump operation.
- 2. Pumps that operate solar- and waste-heat-recovery pool heating systems.
- 3. Where pumps are powered exclusively from on-site renewable generation.

**R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

**Exception:** Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.

**R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

**R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.



### **SECTION R404**

### **ELECTRICAL POWER AND LIGHTING SYSTEMS**

 $\square$ 

R404.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps. Exception: Low-voltage lighting.

R404.1.1 Lighting equipment (Mandatory)Fuel gas lighting systems shall not have continuously burning pilot lights.

### 2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

# TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: Street: City, State, Zip:	122 SW Albany Ter	Builder Name: Permit Office: Columbia County Permit Number:
Owner: Design Location:		Jurisdiction: 221000
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
General requirements	A continuous air barrier shall be installed in the building er The exterior thermal envelope contains a continuous air ba Breaks or joints in the air barrier shall be sealed.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned the insulation and any gaps in the air barrier shall be seale Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	
Walls	The junction of the foundation and sill plate shall be sealed The junction of the top plate and the top of exterior walls s sealed. Knee walls shall be sealed.	
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 a Class I vapor retarder with overlapping joints taped.	with Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace
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 cond	litioned spaces.
Recessed lighting	Recessed light fixtures installed in the building thermal environment of the drywall.	relope 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 showe tubs shall separate them from the showers and tubs.	
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or comm boxes or air-sealed boxes shall be installed.	unication
HVAC register boots	HVAC register boots that penetrate building thermal envel be sealed to the sub-floor or drywall.	ope shall
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shat sealed in a manner that is recommended by the manufact Caulking or other adhesive sealants shall not be used to fi between fire sprinkler cover plates and walls or ceilings.	urer. Il voids

EnergyGauge® USA 6.0.02 (Rev. 1) - FlaRes2017 FBC 6th Edition (2017) Compliant Software

# Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance 2017 Florida Building Code, Energy Conservation, 6th Edition

	Jurisdiction: 221000	Permit #:							
Job	Job Information								
Bui	Ider: Community:	Lot: NA							
Ado	dress: 122 SW Albany Ter								
City	y: Fort White State	e: FL Zip: 32038							
Aiı	Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method								
	PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.								
$\sim$	PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.           ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI):         7.000								
	x       60       ÷       7296       =       ACH(50)         PASS         When ACH(50) is less than 3, Mechanical Ventilation is must be verified by building department.	Method for calculating building volume:         Retrieved from architectural plans         Code software calculated         Field measured and calculated							
Tes 489 pro Du 1. E cor 2. [ me 3. I 4. E 5. H	<b>R402.4.1.2 Testing.</b> Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals).         Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), <i>Florida Statues.</i> or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>code official.</i> Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope.</i> During testing:       1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.         2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.         3. Interior doors, if installed at the time of the test, shall be open.         4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.         5. Heating and cooling systems, if installed at the time of the test, shall be turned off.								
6. Supply and return registers, if installed at the time of the test, shall be fully open. Testing Company									
l ł Ei	ompany Name:	method selected above.							
	ignature of Tester: rinted Name of Tester:								
	cense/Certification #:								