FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Plants 340TL30703AM AH REGION 2A Project Name: Builder Name: 6 WN EG Street: 1608 SW SUNVIEWST Permit Office: City, State, Zip: .FL. Pt. white NOV 0 2 2018 32038 Permit Number: Owner: Alan Buxton Jurisdiction: Design Location: FL, Lakeland County: POLK (Florida Climate Zone New construction or existing New (From Plans) 9. Wall Types (1764.0 sqft.) WERAGAP 2. Single family or multiple family a. Frame - Wood, Exterior Single-family R=11.0 b. N/A 3. Number of units, if multiple family R= c. N/A R= ft2 4. Number of Bedrooms d. N/A R= 10. Ceiling Types (2023.0 sqft.) 5. Is this a worst case? Insulation Area a. Under Attic (Vented) R=33.0 2100.00 ft² 6. Conditioned floor area above grade (ft²) 2100 b. N/A R= ft2 c. N/A Conditioned floor area below grade (ft²) ft2 11. Ducts 7. Windows(317.0 sqft.) ft2 Description Area a. Sup: Attic, Ret: Main, AH: Main 120 a. U-Factor: Dbl, U=0.30 317.00 ft² 12. Cooling systems UNITY BUILDING SHGC: SHGC=0.29 b. U-Factor: N/A kBtu/hr Efficiency SHGC: a. Central Unit 36.0 SEER:14.00 for c. U-Factor: N/A ft2 SHGC: 13. Heating systems -kBtu/hr Efficiency d. U-Factor: N/A a. Electric Heat Pump 36.9 HSPF:8.20 SHGC: Area Weighted Average Overhang Depth: 0.500 ft. mpliand Area Weighted Average SHGC: 14. Hot water systems 0.290 a. Electric 8. Floor Types (2023.0 sqft.) Cap: 50 gallons Insulation Area EF: 0.910 a. Raised Floor R=11.0 2100.00 ft2 b. Conservation features b. N/A R= None c. N/A R= ft2 15. Credits None Total Proposed Modified Loads: 70.42 Glass/Floor Area: 0.157 PASS Total Baseline Loads: 72.98 I hereby certify that the plans and specifications covered by Review of the plans and this calculation are in compliance with the Florida Energy specifications covered by this Code. calculation indicates compliance with the Florida Energy Code. PREPARED BY: Before construction is completed RATER ID=608 DATE: 10 25-18 this building will be inspected for compliance with Section 553.908 I hereby certify that this building, as designed, is in compliance Florida Statutes. with the Florida Energy Code. OWNER/AGEN DATE: Ja- > - 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. a succession - 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 3.00 ACH50 (R402.4.1.2). Date 11-2-18 Plan No. 3R-2102-1148

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Modular Building Plans Examiner Florida License No. SMP-42

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Edition (2017) Compliant Software Page 2 of 4

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2100 10 - 63 - 60

Truss Type

#

Celling Type

Under Attic (Vented)

Space

Main

R-Value

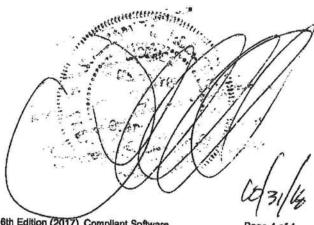
33

Ins Type

Blown

							W	ALLS							
1			Adjac	ent		161	Cavity		let-	Helek					
V_#		nt	To	Wa	l Type	Spa	R-Valu		ln_	Height Ft In	Area	Sheathing R-Value	g Framing Fraction	Solar Absor	Belo
1		000 000 111	xterio	335	me - Wood	Mai	202 117524	68		9	612.0 ft ²		0.19	0.75	
— ²	3,000	7727 001	xterio	50 EUGS	me - Wood	Mai	5000	68		9	612.0 ft ²	ti .	0.23	0.75	
_ 3 4	3 25000		xterio		me - Wood	Mai		30		9	270.0 ft ²	ti -	0.23	0.75	
*	VV-	>S E	xterio	r I-ra	ime - Wood	Mai	n 11	30		9	270.0 ft²	Ē	0.23	0.75	
							DC	ORS							
<u> </u>	#		Om	t	Door Type	Space			Storms	U-Valu	Je F	Width ft In	Height Ft Ir		Area
	1		S=>	E	Insulated	Main		_	None	.4		38	81		1.1 ft²
	2		W=>	S	Insulated	Main			None	.4		38	8		1.1 ft²
							WIN	DOWS							
			Wall		Orientation	shown is t	he entered or	lentation	(=>) cha	nged to We	orst Case.				
\checkmark	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	lmp	Area		rhang Separation		000 00	2 000000000000000000000000000000000000
	1	N=>W	1	Vinyl	Low-E Double	Yes	0.3	0.29	N	45.0 ft²	Oft 6 in		Int Shad	-	Screeni
	2	N=>W	1	Vinyl	Low-E Double	Yes	0.3	0.29	N	9.0 ft ²	Oft 6 in		Drapes/blir		Exterio
	3	N=>W	1	Vinyl	Low-E Double	Yes	0.3	0.29	N	120.0 ft²		0 ft 24 in	None		Exterio
	4	N=>W	1	Vinyl	Low-E Double	Yes	0.3	0.29	N	18.0 ft²		0 ft 10 in	Drapes/blir		Exterior
	5	N=>W	1	Vinyl	Low-E Double	Yes	0.3	0.29	N	15.0 ft²		0 ft 24 in	None Drange/blir	102	Exterior
2	6	N=>W	1	Vinyl	Low-E Double	Yes	0.3	0.29	N	5.0 ft²		0 ft 10 in	Drapes/blir None		Exterior
	7	S=>E	2	Vinyl	Low-E Double	Yes	0.3	0.29	N	25.0 ft²		0 ft 24 in	Drapes/blir		xterior
	8	S=>E	2	Vinyl	Low-E Double	Yes	0.3	0.29	N	5.0 ft²		0 ft 10 in	None		xterior
	9	S=>E	2	Vinyl	Low-E Double	Yes	0.3	0.29	N	60.0 ft²		0 ft 24 in			xterior
	10	S=>E	2	Vinyl	Low-E Double	Yes	0.3	0.29	N	12.0 ft²		0 ft 10 in	Drapes/blin		xterior
	11	E=>N	3	Vinyl	Low-E Double	Yes	0.3	0.29	N	3.0 ft²		0 ft 25 in	None None		xterior
							INFILT	RATIO	N						
												-			
`	Scope		N	Method		SLA	CFM 50	ELA	E	ALA	ACH	ACH	1 50		
Who	olehou	se	Propo	osed AC	H(50) .00	0172	910.3	49.98	93	.99	.0605	3	ŕ		
					- Vi		HEATING	SYST	EM		W				and the same
\checkmark	#	Sys	tem T	уре	Sı	ubtype			fficiency	C	apacity		Blo	ck	Ducts
	_ 1	Elec	tric H	eat Pun	np/ No	one			HSPF:8.2		9 kBtu/hr		1		sys#1
					*		COOLING	SYST	ЕМ						
V	#	_	tem T		Su	ibtype		E	fficiency	Capacit	y Ai	Flow Cash	HR Blo	ck	Ducts
	1	Cen	tral U	nit/	No	one		CI	EER: 14	36 kBtu/			75 %, 1		sys#1

						HOT W	VATER SY	STEM							
/	#	System Type	SubType	Lo	cation	EF	C	ар	Use	SetPnt		Co	nservatio	on	-
1 Electric N		None	None Main		0.91	50 gal		60 gal	120 deg		None				
					so	LAR HO	T WATER	SYST	EM	A manistroise			-	5250///	-
V FSEC Cert # Company Na		ame	ne Syster			Model #	Collector Mode	Collector ector Model # Area			Storage Volume				
	None	None				_					ft² —			FEF	
							DUCTS					-			
V	#	Sup Location R		a L	Re	turn Area	Leaka	је Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV.	AC :
No. of Concession, Name of Street, or other Persons, Name of Street, or other Persons, Name of Street, Name of	1	Attic	6 1201	²	Main	0 ft²	Default	Leakage	Main	(Default)	(Default)		-	1	
-						TEM	PERATU	RES						Least 10"	
Program	able Ther	mostat: N		1	С	eiling Fan	s:								
Cooling Heating Venting	X Jar X Jar Jan	X Feb	X Mar X Mar X Mar		pr pr pr	May May May	X Jun Jun Jun	X Jul Jul Jul	[X] Aug Aug Aug	X Sep Sep	[]8	ct ct ct	Nov X Nov X Nov		Dec Dec
Thermosta Schedule 1		e: HERS 200	6 Reference		_	1020		(3)	ours						
Cooling (W			1	2	3	4	5 _	_ 6	7	8	9 _	10	11	1	12
		AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7	8
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		8
leating (W	D)	AM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	6	
leating (W	EH)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	6 6	
						-	MASS	00	- 00	UB	08	68	68	- 6	8
Ma	ss Type			Are	a	***************************************	Thickness		Furniture Frac	tion	Space	-a	-	-	_
Default(8 lbs/sq.ft.				O ft	2		0 ft		0.3			ain			



ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* ≈ 96

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

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation le	avel
2. Single-family or multiple-family	2. Single-family	a) Supply ducts b) Return ducts	R <u>6.0</u> R 6.0
3. No. of units (if multiple-family)	31	c) AHU location	Main
4. Number of bedrooms	4 3	13. Cooling system: Ci	apacity36.0
5. Is this a worst case? (yes/no)	5. <u>Yes</u>	a) Split systemb) Single package	SEER
6. Conditioned floor area (sq. ft.)	6. 2100	 c) Ground/water source SEEI d) Room unit/PTAC 	R/COP
7. Windows, type and area a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC) c) Area	7a. <u>0.300</u> 7b. <u>0.290</u> 7c. <u>317.0</u>	e) Other 14. Heating system: Ca a) Split system heat pump b) Single package heat pump	apacity 36.9 HSPF
Skylights a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC)	8a. NA 8b. NA	c) Electric resistance d) Gas furnace, natural gas	COPAFUE
9. Floor type, insulation level: a) Slab-on-grade (R-value) b) Wood, raised (R-value) c) Concrete, raised (R-value) 10. Wall type and insulation:	9a 9b11.0 9c	15. Water heating system a) Electric resistance b) Gas fired, natural gas c) Gas fired, LPG	EF EF EF
A. Exterior; 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) B. Adjacent; 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value)	10A11.0 10A2 10B1 10B2.	 d) Solar system with tank e) Dedicated heat pump with to 	EF
Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed	11a. <u>33.0</u> 11b 11c 11dNo_	16. HVAC credits claimed (Performa) Ceiling fans b) Cross ventilation c) Whole house fan d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat	No No No
*Label required by Section R303.1.3 of the Flo	orida Building Code, Energ	gy Conservation, if not DEFAULT.	
I certify that this home has complied with the saving features which will be installed (or excedisplay card will be completed based on install	Florida Building Code, Ene	ergy Conservation, through the above	re energy EPL
Builder Signature:		Date: 12 2 1 2 2 20)	Sec. Company
Address of New Home: 1608 500 Sun	view St	City/FL Zip FL 4 cih	ite 32039

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



FLA Manufactured Building Program 2601 Blair Stone Road Tallahassee, Florida 32399-0772 Phone: 850.487.1824* Fax: 850.414.8436

Halsey Beshears, Secretary

Ron DeSantis, Governor

October 11, 2019

BRUCE BUSSELL

Palm Harbor Homes, Inc. - PC 605 South Frontage Road Plant City, FL 33563

RE: Manufacturer Certification, ID MFT-95; Expiration Date: October 10, 2022

Dear BRUCE BUSSELL

It is my pleasure to inform you that Palm Harbor Homes, Inc. - PC, located at 605 SOUTH FRONTAGE ROAD, PLANT CITY, FL 33563, has been approved under the Manufactured Buildings Program, as provided for under Chapter 553, Part I, Florida Statutes, to manufacture Storage Sheds, Manufactured Buildings for installation in Florida.

Construction or modification on a manufactured building cannot begin until the Third Party Agency has approved the plans in accordance with the current Florida Building Code. Your Third Party Agency is a contractor for the Department and has statutory authority and responsibilities that must be met to maintain approved status. You may expect and demand quality plans review and inspections.

Each Code change will make your plans obsolete until they have been reviewed, approved and indicated [on the cover page of the plans] for compliance with the Code by your Third Party Agency for plans review. Please ensure that your plans are in compliance and are properly posted on our website. All site-related installation issues are subject to the local authority having jurisdiction.

The Department's contractor will make unannounced monitoring visits at least once each year. You must grant complete access to your manufacturing facility and records to remain in compliance with the rules and regulations of this program.

Your certification is approved for three years from this date. You will receive a renewal notice by Email generated by the BCIS (www.floridabuilding.org) for online renewal. If you have questions you may contact Robert Lorenzo at 850-717-1835 or our FAX at 850-414-8436.

Please visit our website at www.floridabuilding.org to see valuable information on the Florida Manufactured Buildings Program. A copy of this letter must accompany applications for local building permits.

Sincerely,

Robert Lorenzo

Manufactured Buildings Program

Rut Lugo

cc: Hilborn Werner Carter And Assoc., Inc.