FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: New Project Dube Street: 266 SW Coles Court City, State, Zip: Fort White , FL , Owner: Reginald Chritie Dube Design Location: FL, Gainesville	Builder Name: Americas Home Place Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Clima	
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) 7. Windows(237.3 sqft.) Description a. U-Factor: Dbl, U=0.27 237.33 ft² SHGC: SHGC=0.33 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: Area Welghted Average SHGC: 0 Detached 1 New (From Plans) Detached 1 Area (Ft²) 2025 Area No 6 Area 237.33 ft² 5 ft² SHGC: C. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: Area Welghted Average SHGC: 0.330	10. Wall Type§1845.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (2025.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: Attic 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump	Insulation Area R=13.0 1467.00 ft² R=13.0 378.00 ft² R= ft² R= ft² Insulation Area R=30.0 2025.00 ft² R= ft² R= ft² R= ft² R= ft² R ft² 6 309.4 kBtu/hr Efficiency 50.0 SEER:16.00
8. Skylights Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (2025.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2025.00 ft² b. N/A R= ft² c. N/A R= ft²	15. Hot water systemsa. Electricb. Conservation featuresNone16. Credits	Cap: 50 gallons EF: 0.980 Pstat
Glass/Floor Area: 0.117 Total Proposed Modinate Total Baselin		PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Free RS Code. 825 NW 253rd Terrace PREPARED BY: New Defry, FL 32669 OATE: (352) 472-8595 I hereby certify that this builday (352) (472-8595) I hereby certify that this builday (352) (472-8595) OWNER/AGENT: DATE: OWNER/AGENT: DATE:	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. BUILDING OFFICIAL: DATE:	COD WE THE STATE OF THE STATE O

- 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

	100000			PROJ	ECT								
Title: Building Towner Na # of Units Builder N Permit Of Jurisdiction Family Ty New/Exis Comment	ame: Reginald C s: 1 lame: Americas I ffice: on: ype: Detached ting: New (From	chritie Dube	Bedrooms Condition Total Stor Worst Ca Rotate Ar Cross Ver Whole Ho	ed Area: ies: se: gle: ntilation:	3 2025 1 No 0			Lot # Bloc Platt Stree Cour	k/Subdiv Book: et:	ision: 26 Co	reet Addr 66 SW Co olumbia ort White	les Cou	urt
				CLIMA	ATE								
√	Design Location FL, Gainesville	TMY Sit		97	Design T 7.5 %	emp 2.5 % 92		sign Tem r Summ 75	ner Deg	leating gree Days			y Tempange
	TE, GUITOSTIIG	1 2_0/ 11/12/11/11		BLOC									
Number	r Name	Area	Volume					0.0				-	
1	Block1	2025	18225										
			1199930000	SPAC	ES								
Number	r Name	Area	Volume	Kitchen	Occup	ants	Bedrooi	ns I	nfil ID	Finished	Coo	led	Heat
1	Main	2025	18225	Yes	4	1	3	1		Yes	Yes		Yes
				FLOO	RS								
\checkmark	# Floor Type	Space	e Peri	meter	R-Valu	е	Area				Tile Wo	od Ca	arpet
	1 Slab-On-Grade E	dge Insulatio	Main 224	l ft	0		2025 ft ²				0 ()	1
				ROC	F								
/	# Туре	Materials	Roof Area	Gabl Area		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (deg
	1 Gable or shed	d Composition shir	igles 2194 ft	422 ff	t² M	edium	N	0.96	No	0.9	No	0	22.6
				ATTI	С								
√	# Type	Vent	ilation	Vent Rati	io (1 in)		Area	RBS	IR	СС			
	1 Full attic	Ve	nted	150	0	2	025 ft²	N	1	N			
				CEILII	NG								
\checkmark	# Ceiling Type	9	Space	R-Valu	е	Ins Ty	pe /	Area	Fran	ning Frac	Truss	Туре	
_	1 Under Attic	(Vented)	Main	30		Blown	2	025 ft ²		0.11	Wo	od	

FO	RM	R405-2020
$ \cup$		1400-2020

INPUT SUMMARY CHECKLIST REPORT

DRM					INPUT S			ALLS							
V ±	+ 0	rnt	Adjace		Туре	Space	Cavity R-Value	Wic	lth In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor-	Belov Grade
1	-	E	Exterior		me - Wood	Main	13	43		9	387.0 ft ²		0.23	0.75	(
2		Е	Garage	Fra	me - Wood	Main	13	23		9	207.0 ft ²	1	0.23	0.75	C
3	ı	S	Garage		me - Wood	Main	13	19		9	171.0 ft ²	ľ	0.23	0.75	0
4		S	Exterior	Fra	me - Wood	Main	13	17		9	153.0 ft ²		0.23	0.75	C
5	i	W	Exterior	Fra	me - Wood	Main	13	66		9	594.0 ft ²	1	0.23	0.75	C
6	i	N	Exterior	Fra	me - Wood	Main	13	37		9	333.0 ft ²	E.	0.23	0.75	
							DO	ORS							
\checkmark		#	Orni		Door Type	Space			Storms	U-Va		Width t In	Height Ft	t In	Area
		1	Е		Insulated	Main			None	.40	6	3	6	8	20 ft²
		2	S		Insulated	Main			None	.40	6	2 8	6	8 1	7.8 ft ²
	-	3	w		Insulated	Main			None	.40	6	3	6	8	20 ft²
					Orie	entation sho		DOWS		d orientation	on.				
,			Wall		- Oil	oritation one		incircu) i	10,1000			erhang			
\checkmark	#	O	rnt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sha	ide :	Screeni
	. 1	E	1	Vinyl	Double (Clear)	Yes	0.27	0.33	N	54.0 ft	2 ft 0 in	6 ft 0 in	Drapes/b	linds	Exterior
	. 2	E	≣ 1	Vinyl	Double (Clear)	Yes	0.27	0.33	N	56.0 ft	2 ft 0 in	6 ft 0 in	Drapes/b	linds	Exterior
	3	E	≣ 1	Vinyl	Double (Clear)	Yes	0.27	0.33	N	12.0 ft	2 ft 0 in	6 ft 0 in	Drapes/b	linds	Exterior
	. 4	5	3 4	Vinyl	Double (Clear)	Yes	0.27	0.33	N	4.0 ft ²	2 ft 0 in	6 ft 0 in	Drapes/b	linds	Exterior
	. 5	٧	V 5	Vinyl	Double (Clear)	Yes	0.27	0.33	Ν	8.0 ft ²	2 ft 0 in	6 ft 0 in	Drapes/b	linds	Exterior
	6	٧	V 5	Vinyl	Double (Clear)	Yes	0.27	0.33	Ν	72.0 ft ²	2 ft 0 in	6 ft 0 in	Drapes/b	linds	Exterior
	7	٧	V 5	Vinyl	Double (Clear)	Yes	0.27	0.33	Ν	13.3 ft ²	2 ft 0 in	6 ft 0 in	Drapes/b	linds	Exterior
	. 8	1	۸ 6	Vinyl	Double (Clear)	Yes	0.27	0.33	N	18.0 ft	2 ft 0 in	6 ft 0 in	Drapes/b	linds	Exterior
							GAF	RAGE							
\vee	- 3	#	Floo	r Area	Ceiling	Area	Exposed \	Nall Per	imeter	Avg. V	Vall Height	Expose	d Wall Ins	ulation	
		1	585	.2 ft²	585.2	ft²		64 ft			8 ft		1		
							INFILT	RATIC	N						
!	Scop	e	N	lethod		SLA (CFM 50	ELA	E	EqLA	ACH	ACH	150	-11 (0000101	
	holeh		Propo	sed AC			1518.8	83.32	1	56.43	.1027	5			
_							HEATING	SYS	ГЕМ			20			
V		# :	System T	уре	Sub	otype	Speed		Efficience	у	Capacity		Е	Block	Ducts
v			Electric H	-			Singl		HSPF:8		9.8 kBtu/hr	Na contraction of the contractio	9	1	sys#1

FORM R405-2020	INPUT SUMMARY	CHECKLIST REPORT

ORM R	405-202	20	INP	UTS	UMN		HECKL	A PROPERTY OF THE PARTY OF THE	PORT						
V _		System Type		Sub		Sub	otype	Efficiency	Capacity	Air F		SHR	Block		ucts
	1 (Central Unit/		Non	е	Sin	ıgl	SEER: 16	50 kBtu/hr	1500	cfm ().75	1	· sy	rs#1
						HOT W	ATER S	YSTEM							
\vee	#	System Type	SubType	Lo	cation	EF	С	ар	Use	SetPnt		Co	nservatio	n	
	1	Electric	None	Ga	arage	0.98	50	gal —————	60 gal	120 deg			None		
					so	LAR HO	T WATE	R SYSTE	M						
\checkmark	FSEC Cert #	Company N	ame			System	Model #	Co	ollector Model		llector \rea		rage ume	FEF	
	None	None									ft²				
							DUCTS								
√	#	Supp Location R-	oly Value Area	L L	Re	turn Area	Leaka	ge Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC#
	1	Attic	6 309.4	ft	Attic	101.25	Default	Leakage	Attic	(Default)	(Default)			1	1
						TEM	PERATU	RES							
Program	nable The	ermostat: Y			С	eiling Fans	s:						10	2 18	
Cooling Heating Venting	X Ja	n X Feb n X Feb n Feb	Mar Mar Mar Mar		pr pr pr	May May May	[X] Jun [] Jun [] Jun	X Jul Jul Jul	[X] Aug Aug Aug	[X] Sep [] Sep [] Sep	Mg	Oct Oct Oct	X Nov X Nov X Nov		Dec Dec Dec
Thermosta Schedule		ule: HERS 200	6 Reference 1	2	3	4	5	Ho 6	ours 7	8	9	10	11	1	2
Cooling (V	VD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	5	80
Cooling (V	VEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78		8'8
Heating (V	VD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8 6
Heating (V	VEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8 6
		100000000000000000000000000000000000000					MASS								
Ma	ass Type			Are	а		Thickness	F	urniture Frac	tion	Spa	ace			
	efault(8 lb			0 ft			0 ft 0 ft		0.3			Main d Floor			
De	Jidulijo ID	oroq.it.		O IC	WEST CO.		010		The state of the s		Architect	1 1001	esting.		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

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

266 SW Coles Court, Fort White, FL,

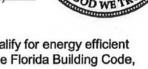
1. New	construction or exis	sting	New (Fr	om Plans)		0. Wall Type and Insulation	Insulation	Area
2. Singl	le family or multiple	nultiple family Detached			a. Frame - Wood, Exterior	R=13.0	1467.00 ft ²	
	ber of units, if multip	2000 SECONS.	4			b. Frame - Wood, Adjacent	R=13.0	378.00 ft²
		pie iarrilly	(18) (18)			c. N/A d. N/A	R= R=	ft² ft²
4. Num	ber of Bedrooms		3				\$10000 States	1000
5. Is thi	is a worst case?		No			Ceiling Type and insulation level a. Under Attic (Vented)	Insulation R=30.0	Area 2025.00 ft ²
6. Cond	ditioned floor area (f	t²)	2025			b. N/A	R=	ft ²
7. Wind	Yours**	Description		Area		c. N/A	R=	ft²
a. U-	-Factor: HGC:	Dbl, U=0.27 SHGC=0.33		237.33 ft²	1	2. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Attic		R ft ² 6 309.4
170	-Factor:	N/A		ft²				
	HGC:				1	3. Cooling systems	kBtu/hr	Efficiency
c. U-	-Factor: HGC:	N/A		ft²		a. Central Unit	50.0	SEER:16.00
	-Factor: HGC:	N/A		ft²	1	4. Heating systems	kBtu/hr	Efficiency
	Weighted Average Weighted Average			2.000 ft. 0.330		a. Electric Heat Pump	49.8	HSPF:8.20
8. Sky a.	ylights U-Factor(AVG):	Description N/A		Area ft²	1	5. Hot water systems a. Electric	Car	p: 50 gallons EF: 0.98
SH	HGC(AVG):	N/A				b. Conservation features		
9. Flo	or Types		Insulation	Area		None		
	Slab-On-Grade Edge	e Insulation	R=0.0	2025.00 ft ²		credits (Performance method)		Pstat
b. N	1000		R=	ft ²		redits (Ferformance method)		rsiai
c. N			R=	ft ²				

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.

Address of New Home: 266 SW Coles Cart

te: 12.16.51

City/FL Zip: Fort while, to



*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.

Florida Building Code, Energy Conservation, 7th Edition (2020) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

	anderly recognition to the	resolution resolution resolution and Erki Methods	•
ADDRESS:	266 SW Coles Court Fort White, FL,	Permit Number:	
			_
	V DECILIDENIENTO C	a badbido al anda anatina for follotos	

	Total Maria (1.2)
MAI	NDATORY REQUIREMENTS - See individual code sections for full details.
$\sqrt{}$	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.
	SECTION R402 BUILDING THERMAL ENVELOPE
	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. The 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)
open combustion fuel burning appliances, the appliances an enclosed in a room, isolated from inside the thermal envelop of Table R402.1.2, where the walls, floors and ceilings shall	Climate Zones 3 through 8, where open combustion air ducts provide combustion air to ad combustion air opening shall be located outside the building thermal envelope or be. Such rooms shall be sealed and insulated in accordance with the envelope requirements meet not less than the basement wall R-value requirement. The door into the room shall be ulated in accordance with Section R403. The combustion air duct shall be insulated where it
	and exhaust pipes installed continuous to the outside. Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.
between conditioned and unconditioned spaces. All recesses	ed in the building thermal envelope shall be sealed to limit air leakage d luminaires shall be IC-rated and labeled as having an air leakage rate not the ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed e housing and the interior wall or celling covering.
R403.1 Controls.	CTION 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).	
R403.3.2 Sealing (Mandatory) All ducts, air handle for air distribution systems shall be considered duct	rs, filter boxes and building cavities that form the primary air containment passageways to or plenum chambers, shall be constructed and sealed in accordance with Section de and shall be shown to meet duct tightness criteria below.
	ance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or orth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in
R403.3.2.1 Sealed air handler. Air handlers s of the design airflow rate when tested in accord	shall have a manufacturer's designation for an air leakage of no more than 2 percent ance with ASHRAE 193.
	e pressure tested to determine air leakage by one of the following methods:
	measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, ler enclosure if installed at the time of the test. All registers shall be taped or otherwise
	shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire air handler enclosure. Registers shall be taped or otherwise sealed during the test.
Exceptions:	
 A duct air leakage test shall not b thermal envelope. 	e required where the ducts and air handlers are located entirely within the building
Duct testing is not mandatory for R405 compliance where credit is	buildings complying by Section 405 of this code. Duct leakage testing is required for Section taken for leakage, and a duct air leakage Qn to the outside of less than 0.080 (where Qn = oper 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the od design.
A written report of the results of the tes	t 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.
R403.4 Mechanical system piping insulation (Mandatory) or below 55°F (13°C) shall be insulated to a minimum of R-3.	
	ng insulation exposed to weather shall be protected from damage, including that ce and wind, and shall provide shielding from solar radiation that can cause be permitted.
installed, they shall be in accordance with Section R	re maintenance systems (Mandatory). If heated water circulation systems are 403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with a sensors and pumps shall be accessible. Manual controls shall be readily accessible.
be a dedicated return pipe or a cold water suppl circulating hot water system pumps shall start th controls shall automatically turn off the pump who demand for hot water.	er circulation systems shall be provided with a circulation pump. The system return pipe shall y pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for ne pump based on the identification of a demand for hot water within the occupancy. The nen the water in the circulation loop is at the desired temperature and when there is no
R403.5.1.2 Heat trace systems. Electric heat to automatically adjust the energy input to the heat times when heated water is used in the occupant	race systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall tracing to maintain the desired water temperature in the piping in accordance with the acy.

MA	NDATORY REQU	IREMENTS - (Continue	ed)	
	heat traps installed on both the i	nlets and outlets. External heat traps	pped with integral heat traps and having shall consist of either a commercially a water distribution line and cold water li	vailable heat trap or a
	R403.5.6 Water heater efficien	cies (Mandatory).		
			systems shall be equipped with autom perature settings for the intended use.	
	(* 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		arked circuit breaker shall be provided hall be provided to permit the energy serned off.	
	Equipment used to pro	ter 4 of the Florida Building Code, Ene	mbination system shall satisfy all state	ons, for the type of equipment installed.
	factor of the system of the sy	tem. The solar energy factor of a syste ystems. Solar collectors shall be teste	em shall be determined from the Florid ad in accordance with ISO Standard 98 System and Component Test Protoco	306, Test Methods for Solar Collectors,
		d with a tilt angle between 10 degrees d at an orientation within 45 degrees o	and 40 degrees of the horizontal; and of true south.	
		ential, or Florida Building Code, Mech or Mechanical means. Outdoor air Int	be provided with ventilation that meet anical, as applicable, or with other app akes and exhausts shall have automat	roved means of ventilation
		echanical ventilation system fan eff all meet the efficacy requirements of	ficacy. When installed to function as a Fable R403.6.1.	a whole-house mechanical
		re an air handler that is integral to test handler shall be powered by an electro	ed and listed HVAC equipment is used onically commutated motor.	to provide whole-house mechanical
	shall meet the following cri	teria:	operated at a positive indoor pressure	
	Indoor Air Quality	y, shall be the maximum rates allowed		100 pt 10
			hall be provided to conditioned space paces adjacent to swimming pools or s	
			the walls of the space(s) from which a e insulated to a minimum of R-19, space	
	R403.7 Heating and cooling eq	uipment.		
	on the equipment loa methodologles, base outdoor and indoor u conditions described factors that affect equipment as st ventilation such as st an efficiency rating e	ds calculated in accordance with ACC d on building loads for the directional on the control of the submitted in Section R302.1. This Code does not be upment sizing. System sizing calculate and ard kitchen and bathroom exhausing calculates.	ling equipment shall be sized in accord. A Manual J or other approved heating orientation of the building. The manufated along with the sensible and total cooled allow designer safety factors, provisions shall not include loads created by a systems. New or replacement heating equired by federal law for the geograph	and cooling calculation cturer and model number of the ing capacities at the design ions for future expansion or other local intermittent mechanical g and cooling equipment shall have
	installed.	TABLE R403. HOLE-HOUSE MECHANICAL VE	6.1 ENTILATION SYSTEM FAN EFFIC	CACY
	FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ⁸ (CFMWATT)	AIRFLOW RATE MAXIMUM (CFM)

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
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
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

When tested in accordance with HVI Standard 916

a.

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 R403.7, 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 1. calculated total sensible load but not less than 80 percent of that load. 2 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: A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas. 1. 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 Florida Building Code, Energy Conservation—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). The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an R403.10.1 Heaters. 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.
	R403.11 Portable spas (Mandatory). The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
П	R403.13 Dehumidifiers (Mandatory If installed, a dehumidifier shall conform to the following requirements:
	 The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/da The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.
	R403.13.1 Ducted dehumidifiers. Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:
	 If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.
	SECTION R404
ELE	ECTRICAL POWER AND LIGHTING SYSTEMS
	R404.1 Lighting equipment (Mandatory). Not less than 90 percent of the lamps in permanently installed luminaires shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.
	R404.1.1 Lighting equipment (Mandatory). Fuel gas lighting systems shall not have continuously burning pilot lights.

2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA ^a

Project Name:

New Project Dube

Builder Name: Americas Home Place

Street: City, State, Zip:

266 SW Coles Court Fort White, FL,

Permit Office: Permit Number:

Owner: Design Location:	Reginald Chritie Dube FL, Gainesville Jurisdiction		100	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA		
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.		
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.		
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.		
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 with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls		
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 conditioned spa	ces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	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 showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.		
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.			
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or			
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or cellings.			

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Envelope Leakage Test Report (Blower Door Test) Residential Prescriptive, Performance or ERI Method Compliance 2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:							
Job Information								
Builder: Americas Home Place Community:	Lot: NA							
Address: 266 SW Coles Court								
City: Fort White State	e: FL Zip:							
Air Leakage Test Results Passing results must meet	either the Performance, Prescriptive, or ERI Method							
PRESCRIPTIVE METHOD-The building or dwelling unit shall be te changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clir PERFORMANCE or ERI METHOD-The building or dwelling unit sh	all be tested and verified as having an air leakage rate of not exceeding or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.							
When ACH(50) is less than 3, Mechanical Ventilation installation Field measured and calculated must be verified by building department. R402.4.1.2 Testing. 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 Statues.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. 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								
Company Name: I hereby verify that the above Air Leakage results are in accordant Energy Conservation requirements according to the compliance results.	ce with the 2020 7th Edition Florida Building Code							
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	Issuing Authority:							

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:

П	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.
	Mandatory Requirements (five pages)
Red	quired 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)



Load Short Form Entire House SHATTO HEATING & AIR, INC.

Job: DUBE RESIDENCE

Date: Nov 02, 2021 KIM SHATTO

595 WEST MAIN STREET, LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 Email: SERVICE@SHATTOAIR.COM Web: WWW.SHATTOAIR.COM License: CACO5...

Project Information

For:

AMERICA'S HOME PLACE

9200 NW 39THAVE. SUITE 190, GAINESVILLE, FL 32606

Phone: 352-244-8247

Email: ALOCAY@AMERICASHOMEPLACE.COM

	Htg	Clg		Infiltration	
Outside db (°F)	33	92	Method		Simplifie
Inside db (°È)	70	75	Construction quality		Averag
Design TD (°F)	37	17	Fireplaces		
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	33	45			

HEATING EQUIPMENT

COOLING EQUIPMENT

	IILAIII	E GCOII IMETAT			000=		
Make Trade	THE TRANE (Make Trade		NE COMPANY NE COMPANY	
Model	4TWR6048			Cond	4TWR604	8	
AHRI ref				Coil	TEM6A0C	48	
,				AHRI ref			
Efficienc	v	8.1 HSPF		Efficiency		12.2 EER, 16 SEER	
Heating				Sensible of		35043	Btuh
Heating		49812	Btuh @ 47°F	Latent coo	oling	15018	Btuh
	ature rise	28	°F	Total cooli	ina	50061	Btuh
Actual ai		1599	cfm	Actual air		1599	cfm
Air flow f		0.060	cfm/Btuh	Air flow fac	ctor	0.043	cfm/Btuh
Static pre			in H2O	Static pres	ssure	0	in H2O
	ermostat	-		2.50	sible heat ratio	0.80	

Capacity balance point = 9 °F

Backup:

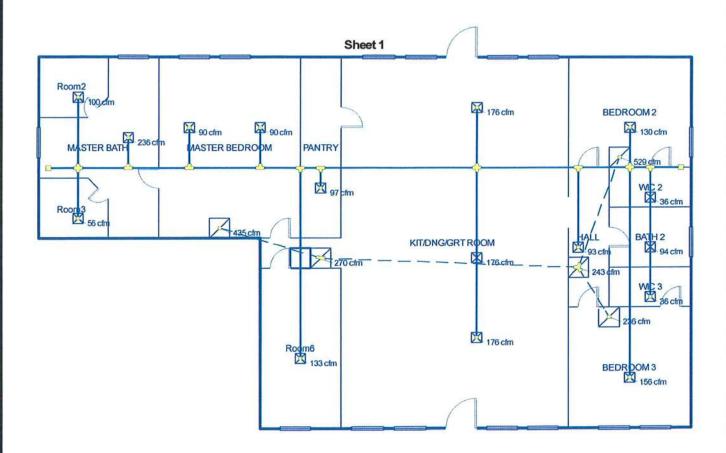
0 1444 O. 4-14 - 000000 DE-15 400 AELIE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
MASTER BATH	216	3961	3845	236	166
Room2	40	936	2327	56	100
Room3	40	936	991	56	43
MASTER BEDROOM	252	2919	4193	174	181
PANTRY	72	455	2260	27	97
Room6	128	2226	1913	133	82
KIT/DNG/GRT ROOM	838	8858	10455	529	450
BEDROOM 2	132	2174	2662	130	115
WIC 2	32	343	826	20	36
BATH 2	48	861	2180	51	94
WIC 3	32	343	826	20	36
BEDROOM 3	144	2618	2478	156	107
HALL	56	156	2156	9 '	93

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

Entire House Other equip loads Equip. @ 0.97 RSM Latent cooling	2030	26786 0	37111 0 35998 9080	1599	1599
TOTALS	2030	26786	45078	1599	1599





Job #: DUBE RESIDENCE Performed by KIM SHATTO for:

AMERICA'S HOME PLACE 9200 NW 39TH AVE. SUITE 190 GAINESVILLE, FL 32606 Phone: 352-244-8247 ALOCAY@AMERICASHOMEPLACE.COM

SHATTO HEATING & AIR, INC.

595 WEST MAIN STREET LAKE BUTLER, FL 32054 Phone: 386-496-8224 Fax: 386-496-9065 WWW.SHATTOAIR.COM SERVICE@SHATTOAIR.C.. Scale: 1 : 112

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