FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

			
Street: 100 SW C City, State, Zip: Ft white,	FL , Brenda Hartzog	Builder Name: Harvey Building Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate 2	Zone 2)
a. U-Factor: Dbl,	### 1 ### 1	9. Wall Types (2293.3 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (2800.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Garage 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric b. Conservation features IN3WH.	Insulation Area R=13.0 2076.70 ft² R=13.0 216.67 ft² R= ft² R= ft² Insulation Area R=38.0 2800.00 ft² R= ft² R= ft² R= ft² A ft² 6 360 kBtu/hr Efficiency 46.0 SEER:14.00 kBtu/hr Efficiency 45.5 HSPF:8.20 Cap: 50 gallons EF: 0.980
Glass/Floor Area: 0.075	Total Proposed Modifie Total Baseline		PASS
this calculation are 825 Code. 825 PREPARED BY: PARED B	(352) 472L8595 ax (352) 472L2633 ding, as designed, is in compliance e.	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 TRUST

- 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

				PROJEC	Т							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	New Project Hartzog User Mike & Brenda Hart 1 Harvey Building Single-family New (From Plans)		Bedrooms: Conditioned Total Storie Worst Case Rotate Angl Cross Venti Whole Hous	s: 1 e: Ne: 0 le: 0	012		Lot # Block PlatE Stree Cour	k/Subdivi: Book: et:	sion: 1 C p: F	OO SW Oak Columbia It white ,		
				CLIMATI	Ę	<u>_</u>						
V Desi	gn Location	TMY Site		Desi 97.5 ^c	gn Temp % 2.5 %	Winte			leating gree Day		-	Tempange
FL,	Gainesville FL	_GAINESVILLE	_REGI	32	92	70	75		1305.5	51	M	edium
				BLOCKS	S							
Number	Name	Area	Volume									
1	Block1	2800	28000									
			Ð	SPACES	3							
Number	Name	Area	Volume K	itchen O	ccupants	Bedroor	ns I	nfil ID	Finishe	d Cool	ed	Heat
1	Main	2800	28000	Yes	4	4	1		Yes	Yes		Yes
				FLOORS								
√ #	Floor Type	Space	Perin	neter R	-Value	Area				Tile Wo	od Ca	arpet
1 Slab	-On-Grade Edge Insul	ation M	ain 233	ft	0	2800 ft²				0 0)	1
				ROOF								
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (de
1	Gable or shed Co	mposition shing	es 3033 ft²	582 ft²	Medium	N	0.96	No	0.9	No	0	22
				ATTIC								
√ #	Туре	Ventila	ation	Vent Ratio (l in)	Area	RBS	IR	cc			
1	Full attic	Vent	ted	150		2800 ft²	N		N			
				CEILING		-						
√ #	Ceiling Type		Space	R-Value	Ins Ty	ре	Area	Fran	ming Fra	c Truss	Туре	
	Under Attic (Vented)		-	38	-		2800 ft²		0.11	Wo		

INPUT SUMMARY CHECKLIST REPORT

					INPUT S			ALLS								
V :	#Ornt		Adjace	ent Wall	Type	Space	Cavity	Wi	dth In	H Ft	eight In	Area_	Sheathing R-Value	Framing Fraction	Solar	Below Grade ^o
1			cterior		me - Wood	Main	13	30	8	10		306.7 ft²	11 1444	0.23	0.75	0
2	2 N	E	derior	Fra	me - Wood	Main	13	43		10		430.0 ft²		0.23	0.75	0
3	3 E	E	cterior	Fra	me - Wood	Main	13	42		10		420.0 ft ²		0.23	0.75	C
4	s s	E	cterior	Fra	me - Wood	Main	13	21	4	10		213.3 ft²		0.23	0.75	C
5	5 S	E	cterior	Fra	me - Wood	Main	13	30	8	10		306.7 ft²		0.23	0.75	C
6	s s	G	arage	Fra	me - Wood	Main	13	21	8	10		216.7 ft ²		0.23	0.75	C
7	, w	Đ	derior	Fra	me - Wood	Main	13	40		10		400.0 ft ²		0.23	0.75	C
				·····			DO	ORS								
\checkmark	#		Ornt		Door Type	Space			Storms	,	U-Valu	e Fí	Width In	Height Ft I	İn	Area
	_ 1		N		Insulated	Main			None		.46	2	. 8	8	2	1.3 ft²
	. 2		N		Insulated	Main			None		.46	2	8	8	2	1.3 ft²
	3		s		Insulated	Main			None		.46	2	8	8	2	1.3 ft²
	. 4		S		Insulated	Main			None		.46	2	8	8	2	1.3 ft²
			Wall		Oi	rientation sh	WINI nown is the e	DOWS ntered, I		d orie	entation.	Ovo	hang			
\checkmark	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	lmp)	Area		Separation	Int Sha	de :	Screenin
	1	N	1	Vinyl	Double (Clear)	Yes	0.33	0.22	N		36.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/bl	linds	Exterior
	2	N	2	Vinyl	Double (Clear)	Yes	0.33	0.22	N		54.0 ft²	6 ft 0 in	1 ft 0 in	Drapes/bl	linds	Exterior
	3	N	2	Vinyl	Double (Clear)	Yes	0.33	0.22	N		15.0 ft²	6 ft 0 in	1 ft 0 in	Drapes/bi	linds	Exterior
	. 4	s	4	Vinyi	Double (Clear)	Yes	0.33	0.22	N	3	30.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/bl	linds	Exterior
	. 5	s	5	Vinyl	Double (Clear)	Yes	0.33	0.22	N	6	60.0 ft²	10 ft 0 in	1 ft 0 in	Drapes/bl	linds	Exterior
	. 6	W	7	Vinyl	Double (Clear)	Yes	0.33	0.22	N	•	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/bl	linds	Exterior
							GAF	RAGE								
$\sqrt{}$	#		Floor	r Area	Ceiling	Area	Exposed \	Vall Per	imeter		Avg. Wa	II Height	Expose	d Wall Ins	ulation	
	. 1		528	B ft²	528 1	₹²	•	64 ft			8	ft		1		
							INFILT	RATIO	N							
#	Scope		N	lethod		SLA	CFM 50	ELA		EqL/	_ 	ACH	ACH	1 50		
	holehous	e e		sed AC			2333.3	128.1		40.9		.1307	5			
							HEATING	SYS	TEM			· · · · · · · · · · · · · · · · · · ·				
V	#	Sys	tem Ty	уре	Sut	otype			Efficien	су	C	apacity		В	Block	Ducts
				eat Pun					HSPF:8			5 kBtu/hr			1	sys#1

INPUT SUMMARY CHECKLIST REPORT

OKIVI K4				UT SUM		ING SYS					-			
V	#	System Type		Subtype	**************************************		Efficiency	Capacity	Air F	low :	SHR	Block	Dı	ıcts
	1	Central Unit/		None			SEER: 14	46 kBtu/hr	1380	cfm (0.75	1	sy	s#1
					нот w	ATER SY	STEM					-		
\checkmark	#	System Type	SubType	Location	n EF	Ca	эр	Use	SetPnt		Co	nservatio	1	
	1	Electric	None	Garage	0.98	50 (gal	70 gal	120 deg			None		
				SC	DLAR HO	T WATER	RSYST	EM						
\checkmark	FSEC Cert #	Company N	ame		System	Model #	Co	ollector Model		llector Area	Stor	-	FEF	
	None	None								ft²				
						DUCTS								
/	#	Sup Location F	oply R-Value Area	F Locatio	Return on Area	Leaka	ge Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV/ Heat	AC#
	1	Attic	6 360 ft²	Attic	140 ft²	Default	Leakage	Garage	(Default) o	(Default)	С		1	1
					TEM	PERATU	RES							
Program	able The	rmostat: Y			Ceiling Fans	S :								
Cooling Heating Venting	X 7	an [] Feb an [X] Feb an [] Feb	[] Mar [X] Mar [X] Mar	Apr Apr X Apr	[] May [] May [] May	[X] Jun Jun Jun	[X] Jul	[X] Aug Aug Aug	[X] Sep Sep Sep		Oct Oct Oct	X Nov X Nov	X	Dec Dec Dec
Thermostal	Schedu	ıle: HERS 20	06 Reference					ours						
Schedule T	уре		1	2 3	4	5	6	7	8	9	10	11		2
Cooling (W	(D)	AM PM	78 80	78 78 80 78	3 78 3 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	7	80 '8
Cooling (W	EH)	AM PM	78 78	78 78 78 78	3 78 3 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7/	'8 '8
leating (W	(D)	AM PM	66 68	66 66 68 68	66 3 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8 6
Heating (W	/EH)	AM PM	66 68	66 66 68 68		66 68	68 68	68 68	68 68	68 68	68 68	68 66		i8 i6
						MASS								<u>.</u>
Ma	iss Type	· · · · · · · · · · · · · · · · · · ·		Area		Thickness		Furniture Fra	ction	Sp	ace			
De	fault(8 It	os/sq.ft.		O ft²		0 ft		0.3			Main			

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)
Red	uired 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)

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

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

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
		a) Supply ducts R <u>6.0</u>
2. Single-family or multiple-family	2. Single-family	b) Return ducts R 6.0
		c) AHU location Garage
3. No. of units (if multiple-family)	31	
4. Number of bedrooms	44	13. Cooling system: Capacity 46.0 a) Split system SEER
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.)	62800	d) Room unit/PTAC EER e) Other 14.0
7. Windows, type and area		<u></u>
a) U-factor:(weighted average)	7a. 0.330	
b) Solar Heat Gain Coefficient (SHGC)	7b. 0.220	14. Heating system: Capacity 45.5
c) Area	7c. 210.0	a) Split system heat pump HSPF
,		b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)	8aNA	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	e) Gas furnace, LPG AFUE
,		f) Other 8.20
9. Floor type, insulation level:		,
a) Slab-on-grade (R-value)	9a0.0	
b) Wood, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (R-value)	9c	a) Electric resistance EF 0.98
		b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, LPG
A. Exterior:		d) Solar system with tank EF
 Wood frame (Insulation R-value) 	10A1. <u>13.0</u>	e) Dedicated heat pump with tank EF
2. Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:		g) Other
 Wood frame (Insulation R-value) 	10B1. 13.0	
2. Masonry (Insulation R-value)	10B2	
		16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a. 38.0	b) Cross ventilation No
b) Single assembly	11b	c) Whole house fan No
c) Knee walls/skylight walls	11c	d) Multizone cooling credit
d) Radiant barrier installed	11dNo	e) Multizone heating credit
		f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the Fl	orida Building Code. Ene	ergy Conservation, if not DEFAULT.
I certify that this home has complied with the	Florida Building Code, E	Energy Conservation, through the above energy
saving features which will be installed (or exc		
display card will be completed based on insta		
Builder Signature:		Date:
Dulider Orginature		D4 (0,
Address of New Home: 100 SW Oak Glen		City/FL Zip: Ft white, FL

	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 (Mandatoff) e energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	SECTION R404
EL	LECTRICAL POWER AND LIGHTING SYSTEMS
	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): uel gas lighting systems shall not have continuously burning pilot lights.

M/	ANDATORY 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. 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.
	 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). in accordance with Sections R403.10.1 through R403.10.5. The energy consumption of pools and permanent spas shall be
	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:
	 Where public health standards require 24-hour pump operation. Pumps that operate solar- and waste-heat-recovery pool heating systems. 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.

M	ANDATORY REQUIREMENTS - (Continued)
	R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
	R403.5.6 Water heater efficiencies (Mandatory).
	R403.5.6.1.1 Automatic controls. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
	R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
	R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
	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:
	 Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and Be installed at an orientation within 45 degrees 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.
	Exception: Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
	R403.6.2 Ventilation air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
	 The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
	 No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
	3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be

R403.7 Heating and cooling equipment (Mandatory).

otherwise.

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.

TABLE R403.6.1 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (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
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) 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:** Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. 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. **SECTION R403 SYSTEMS** R403.1 Controls. 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: 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 manufac 1. handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. 2. 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. R403.4 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) leated 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.

when heated water is used in the occupancy.

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

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

ADDRESS:	100 SW Oak Glen	Permit Number:	
	Ft white , FL		

MANDATORY REQUIREMENTS See individual code sections for full details.

	The state of the s
\checkmark	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 leakagė\(\)Vindows, 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.

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:

New Project Hartzog

Street: City, State, Zip: 100 SW Oak Glen Ft white, FL,

Builder Name: Harvey Building

Permit Office: Permit Number: Jurisdiction:

Street:	100 SW Oak Glen Permit Of	Permit Office:		
City, State, Zip:	· ·	Permit Number:		
Owner:	5	Jurisdiction:		
Design Location:	FL, Gainesville		CHECK	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA		
General	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier.	Air-permeable insulation shall		
requirements	Breaks or joints in the air barrier shall be sealed.	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.			
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 space	es.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	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 an plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	d	
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 on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.			
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.			
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be set in a manner that is recommended by the manufacturer. Caulking or ott adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.			

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 2017 Florida Building Code, Energy Conservation, 6th Edition

	Jurisdiction:			Permit #:			
Address: 100 SW Oak Glen City: Ft white State: 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 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. PERFORMANCE or ERI 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. 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 an Form R405-2017. Energy Calc (Performance) or R406-2017 (ERI): 5.000 Whethod for calculating building volume: ACH(50) Retrieved from architectural plans Code software calculated Pascals be verified by building department. R402.4.12 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 553.93(5) or (7), Florids Statues or individuals cinesed as set forth in Section 439, 105(3)(7), (9), or (0) 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 thecode official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope. During testing: Lizetior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. 2. Dempers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control m	Job Inform	ation					
Air Leakage Test Results	Builder:	Harvey Building	Community:		Lot:	NA	
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. 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 liabled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 5.000 When ACH(50) is less than 3, Mechanical Ventilation installation 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 553.933(5) or (7), Florida Statues or individuals licensed as set forth in Section 499. 105(3)(1), (1), or 1) or an approved hird party. A written report of the results of the test shall be signed by the party conducting the test and provided to the acodo 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 tumed off. 5. Heating and cooling systems, if installed at the time of the test, shall be tumed off. 5. Heating and cooling systems, if installed at the time of the test, shall be fully open. Phone: 1 hereby verify that the above Air Leakage resul	Address:	100 SW Oak Glen					
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 Pascale) in Climate Zones 1 and 2. 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 R405-2017 (ERI), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2017 (Performance) or R405-2017 (ERI), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2017 (ERI). **Energy Case (Performance) or R405-2017 (ERI): **DASS** Whethod for calculating building volume: CFM(50) PASS** When ACH(50) is less than 3, Mechanical Ventilation installation PASS** When ACH(50) is less than 3, Mechanical Ventilation installation Field measured and calculated must be verified by building department. R402-4.12 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 \$53 993(5) or (7), Fonda Statuces or individuals licensed as set forth in Section \$493.105(3)(1), (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 thecode official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope. During testing: Laterior windows and doors, fireplace and stove doors shall be closed, but not sealed beyond intended infiltration control measures. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed and sealed. Heating and cooling systems, installed at the time of the	City: Ft wh	nite	State:	FL	Zip:		
changes per hour at a pressure of 0.2 inch w.g. (50 Pescals) in Climate Zones 1 and 2. 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); section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2017-Energy Calc (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); section ACH50. ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI); socion ACH50. ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI); section ACH50. ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI); section ACH50. ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI); section ACH50. ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI); section ACH50. ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI); section ACH50. AC	Air Leaka	ge Test Results	Passing results must meet e	ither the Performa	nce, Prescriptive,	or ERI Method	
the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH(50). ACH(50) specified on Form R405-2017-Energy Cate (Performance) or R406-2017 (ERI): \$\begin{array}{c} x 60 \div \frac{28000}{28000000000000000000000000000000					g an air leakage rate	of not exceeding 7 air	
PASS Code software calculated When ACH(50) is less than 3, Mechanical Ventilation installation 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 fully open. Testing Company Company Name: Phone: I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above. Signature of Tester: Date of Test: Printed Name of Tester:	PERFO	ACH(50) value, as shown on	Form R405-2017 (Performance) or	R406-2017 (ERI), sec	tion labeled as infiltr	ation, sub-section ACH50.	
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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 thecode 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 accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above. Signature of Tester: Date of Test: Date of Test: Printed Name of Tester:				stallation	Field measure	ed and calculated	
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Company Name: Phone: I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above. Signature of Tester: Date of Test: Printed Name of Tester:	5. Heating and	cooling systems, if installed	at the time of the test, shall be turne	d off.			
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Printed Name of Tester:	I hereby ve	rify that the above Air Le	akage results are in accordant	Phone ce with the 2017 6	: th Edition Florida		
	Signature	of Tester:		Date o	f Test:	,,	
License/Certification #: Issuing Authority:	Printed Na	ame of Tester:					
	License/C	ertification #:		Issuing Author	ity:		