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	quired 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)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 191185 Chaddock Street: 230 SW Marynik Dr City, State, Zip: High Springs , FL , Owner: Mike Chaddock Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: alachua (Florida Climate Zone 2)
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(277.1 sqft.) Description a. U-Factor: Dbl, U=0.30 277.11 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 7.500 ft. Area Weighted Average SHGC: 0.200 8. 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	9. Wall Types (1440.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A R= ft² c. N/A d. N/A R= ft² 10. Ceiling Types (2086.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A R= ft² c. N/A R= ft² 11. Ducts R= ft² a. Sup: Attic, Ret: Attic, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric Cap: 50 gallons EF: 0.950 b. Conservation features None 15. Credits Pstat
Glass/Floor Area: 0.137 Total Proposed Modifie Total Baseline	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:	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:

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

				PROJ	ECT								
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Mike Chaddock 1		Bedrooms Conditions Total Stori Worst Cas Rotate And Cross Ven Whole Hor	ed Area: es: ee: gle: tilation:	2 2025 1 No 0			Lot # Bloc Platt Stree Coul	k/Subdivi 3ook: et:	sion: 2 a p: H	Street Addro 30 SW Ma Jachua Jigh Spring	rynik D	,
-				CLIMA	ATE								
	sign Location	TMY Site			Design T 7.5 %	2.5 %	Winte	esign Tem er Sumn	ner Deg	leating ree Day	s Moistu	e Ra	/ Temp ange
FL	, Gainesville	FL_GAINESVILLI	E_REGI		32	92	70	75	1	1305.5	51	М	edium
				BLOC	CKS			··- <u>-</u>					
Number	Name	Area	Volume										
1	Block1	2025	20047										
				SPAC									
Number	Name	Area		Kitchen	Occup		Bedroo		nfil ID	Finishe		led	Heate
1 	Main	2025	20047.5	Yes		4	2	1		Yes	Yes		Yes
				FLOC									
√ # 1.Si	Floor Type ab-On-Grade Edge I	Space Insulatio M	Peri lain 180	meter	R-Valu 0	ie	Area 2025 ft²				0.3 0	od Ca	arpet 0.4
	ab on orace Eage i	TIOGRAPHO IV	100				2025 10				0.5	.5 (J.4
<u> </u>	<u> </u>			ROC		- ·							
/ #	Туре	Materials	Roof Area	Gab Area		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg
1	Hip	Composition shing	gles 2134 ft²	O ft²	:	Dark	N	0.92	No	0.9	No	0	18.4
				ATT	IC								
√ #	Туре	Venti	ation	Vent Rat	tio (1 in)		Area	RBS	IR	cc			
1	Full attic	Ven	ted	30	0	2	:025 ft²	N	1	N			
· · · · · · · · · · · · ·				CEILI	NG				***				
V #	Ceiling Type		Space	R-Valu	ie	Ins Ty	pe	Area	Fran	ning Fra	c Truss	Туре	
1	Under Attic (Ven	tod)	Main	38		Blown		2086 ft²		0	Wo		

FORM R405-2017	INPUT SUMMARY CHECKLIST REPORT
FURIVI R4U5-7U17	INPUL SUMMART CHECKLIST REPURT

KMF	R405-2	017			INPUT	SUMM	•		IST R	EPORT					
7								ALLS							
V #	Omt		djacer Fo	nt Wall	Туре	Spa	ce R-Valu			Height Et In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	
1	N	Ext	erior		me - Wood	Mai		45		8	360.0 ft ²		0.23	0.75	(
2	Ε	Ext	erior	Fran	me - Wood	Mai	n 19	45		8	360.0 ft ²		0.23	0.75	(
3	S	Ext	erior	Fran	me - Wood	Mai	n 19	45		8	360.0 ft ²		0.23	0.75	(
4	W	Ext	erior	Fran	me - Wood	Mai	n 19	45		8	360.0 ft ²		0.23	0.75	(
							DO	ors							
\checkmark	#		Ornt		Door Type	Space			Storms	U-Valı	Je F	Width t In	Heigh Ft	t In	Area
	1		Ε		Insulated	Main			None	.4	:	2	6	8 1	3.3 ft ²
	2		s		Insulated	Main			None	.4	:	2	6	8 1	3.3 ft ²
	3		S		Insulated	Main			None	.4		1	6	8	6.7 ft²
	4		W		Insulated	Main			None	.4		1	6	8	6.7 ft²
	5		W		Insulated	Main			None	.4		1	6	8	6.7 ft²
						Orientation s	WIN	DOWS		Corientation					
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V	# (Ornt	ID I	Frame	Panes	NFRC	U-Factor	SHGC	lmp	Area	Depth	Separation	Int Sha	ade	Screeni
	1	N	1	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft ²	7 ft 6 in	0 ft 0 in	Non	е	None
	2	E	2	Metal	Low-E Double	Yes	0.3	0.2	N	120.0 ft ²	7 ft 6 in	0 ft 0 in	Non	е	None
	3	Е	2	Metal	Low-E Double	Yes	0.3	0.2	N	26.7 ft ²	7 ft 6 in	0 ft 0 in	Non	е	None
	4	S	3	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft ²	7 ft 6 in	0 ft 0 in	Non	е	None
	5	S	3	Metal	Low-E Double	Yes	0.3	0.2	N	26.7 ft ²	7 ft 6 in	0 ft 0 in	Non	е	None
	6	S	3	Metal	Low-E Double	Yes	0.3	0.2	N	13.3 ft ²	7 ft 6 in	0 ft 0 in	Non	е	None
	7	W	4	Metal	Low-E Double	Yes	0.3	0.2	N	13.3 ft²	7 ft 6 in	0 ft 0 in	Non	е	None
	8	W	4	Metal	Low-E Double	Yes	0.3	0.2	N	6.0 ft ²	7 ft 6 in	0 ft 0 in	Non	е	None
	9	W	4	Metal	Low-E Double	Yes	0.3	0.2	N	11.1 ft²	7 ft 6 in	0 ft 0 in	Non	e	None
							INFIL	RATIO	N						
,	Scope		Мє	ethod		SLA	CFM 50	ELA	E	:qLA	ACH	ACI	-1 50		
	olehouse		ropos	sed AC	H(50) .	00044	2338.9	128.4		11.48	.1804		7		
							HEATIN	G SYS	TEM		••				
V	#	Syste	em Ty	ре		Subtype			Efficienc	y (Capacity		ı	Block	Ducts
	1			at Pun		None			HSPF:8.	·	2 kBtu/hr			1	sys#1

FORM R405-2017 INPUT SUMMARY CHECKLIST REPORT

OT CONTICT	05-201		IME	JI SUMI		LING SYS		PORT					
$\sqrt{}$	# 5	System Type		Subtype		· .	Efficiency	Capacity	Air F	low	SHR	Block	Ducts
	1 (Central Unit/	-	None			SEER: 15	32 kBtu/hr	960	cfm	0.75	1	sys#1
					нот w	ATER SY	STEM					· · ·	
V	#	System Type	SubType	Location	EF	Ca	р	Use	SetPnt		Co	nservatio	n
	1	Electric	None	Main	0.95	50 (gal	50 gal	120 deg			None	
		•		sc	DLAR HO	T WATER	SYSTE	EM .					
\vee	FSEC Cert #	Company N	lame		System	Model #	Co	ollector Model		llector Area		age age	FEF
	None	None								ft²			
						DUCTS							. .
\checkmark	#	Sup Location R	ply -Value Area	R Locatio	leturn n Area	Leaka	је Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Co
	1	Attic	6 405 ft²	Attic	101.25	Default	Leakage	Main	(Default)	(Defaul	t)		1 1
					TEM	PERATUI	RES						
Program	able The	rmostat: Y			Ceiling Fan	s:							
Cooling Heating Venting	[] Ja [X] Ja [] Ja	n []Feb n [X]Feb n []Feb	Mar X Mar X Mar	Apr Apr (X) Apr	[] May [] May [] May	[X] Jun Jun Jun	[X] Jul Jul Jul	[X] Aug Aug Aug	[X] Sep [] Sep [] Sep	X	Oct Oct Oct	Nov X Nov X Nov	Dec X Dec Dec
Thermosta		le: HERS 200	06 Reference					ours					
Schedule 1	••		1	2 3		5	6	7	8	9	10	11	12
Cooling (W	/D)	AM PM	78 80	78 78 80 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (W	/EH)	AM PM	78 80	78 78 80 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Heating (W	/D)	AM PM	65 68	65 65 68 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
leating (W	/EH)	AM PM	65 68	65 65 68 68		65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
		. 191		00 00	. 50	MASS	- 00	00		30	00		00
Ma	iss Type			Area		Thickness		Furniture Fra	ction	Sı	pace		·
De	fault(8 lb	s/sq.ft.		0 ft²		0 ft		0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 93

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
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0 c) AHU location Main
3. No. of units (if multiple-family)	31	C) Al lo location
4. Number of bedrooms	42	13. Cooling system: Capacity 32.0 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.)	6. 2025	d) Room unit/PTAC EER
7. Windows, type and area a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC) c) Area	7a. 0.300 7b. 0.200 7c. 277.1	14. Heating system: Capacity 32.0 a) Split system heat pump HSPF b) Single package heat pump HSPF
8. Skylights a) U-factor:(weighted average)	8aNA	c) Electric resistance COP d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	e) Gas furnace, LPG AFUE
9. Floor type, insulation level: a) Slab-on-grade (R-value) b) Wood, raised (R-value) c) Concrete, raised (R-value) 10. Wall type and insulation: A. Exterior: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) B. Adjacent: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) 11. Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls	9a0.0 9b 9c 10A119.0 10A2 10B1 10B2 11a38.0 11b 11c 11dNo	15. Water heating system a) Electric resistance
d) Radiant barrier installed	11dNO	e) Multizone heating credit f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ener	gy Conservation, if not DEFAULT.
I certify that this home has complied with the F saving features which will be installed (or exce display card will be completed based on instal	eded) in this home before	e final inspection. Otherwise, a new EPL
Builder Signature:		Date:
Address of New Home: 230 SW Marvnik Dr		City/FL Zip: High Springs, FL

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

ADDRESS:	220 CM/ Manually Da	Dame & Alexandra on
ADDRESS:	230 SW Marynik Dr	Permit Number:
	LUAN CARRAGE TI	
	High Springs , FL ,	

MAN	DATORY REQUIREMENTS See individual code sections for full details.
\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 leakage\(\text{V}\) indows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
	Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued) R402.4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8. **Exceptions:** 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. 2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential. R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering. 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. 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. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of R403.3.2.1 Sealed air handler. 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 manufa air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test. **Exceptions:** 1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope. 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)Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible. R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

times 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

MANDATORY 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 1/2 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). Service water-heating systems shall be equipped with automatic temperature controls capable R403.5.6.1.1 Automatic controls. 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). A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to R403.5.6.1.2 Shut down. 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. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table R403.5.6.2 Water-heating equipment. 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: 1. 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. The building shall be provided with ventilation that meets the requirements of the R403.6 Mechanical ventilation (Mandatory). 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 insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise R403.7 Heating and cooling equipment (Mandatory). R403.7.1 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect

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

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

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

	(O (i)
MA	NDATORY 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.
	2. A variable capacity system sized for optimum performance during base load periods is utilized.
	R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.
	R403.9 Snow melt and ice system controls (Mandatory) Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
	R403.10 Pools and permanent spa energy consumption (Mandatory). be in accordance with Sections R403.10.1 through R403.10.5. The energy consumption of pools and permanent spas shall
	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.

	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 (Mandator) he 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)Fuel gas lighting systems shall not have continuously burning pilot lights.

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:

191185 Chaddock

Street:

230 SW Marynik Dr High Springs , FL , Builder Name: Permit Office:

Permit Number:

City, State, Zip: Owner: Design Location:	High Springs , FL , Permit Nu Mike Chaddock Jurisdiction FL , Gainesville	er:			
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			
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 sp	paces.			
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 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 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 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 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 #:					
Jol	Information							
Bui	lder: Community	:		Lot:	NA			
Add	dress: 230 SW Marynik Dr							
City	y: High Springs	State:	FL	Zip:				
Air	r Leakage Test Results Passing results mus	t meet ei	ther the Performa	ance, Prescriptive, o	or ERI Method			
C	PRESCRIPTIVE METHOD-The building or dwelling unit sha changes per hour at a pressure of 0.2 inch w.g. (50 Pascals			aving an air leakage r	ate of not exceeding 7 air			
the	PERFORMANCE or ERI METHOD-The building or dwelling eselected ACH(50) value, as shown on Form R405-2017 (Performance ACH(50) specified on Form R405-2017-Energy	ormance) o	or R406-2017 (ERI)	, section labeled as in				
	x 60 ÷ 20048 = ACH(PASS When ACH(50) is less than 3, Mechanical Ventila must be verified by building department.	` ′	- callation	Retrieved from Code software	ating building volume: n architectural plans e calculated ed and calculated			
Tes 489	02.4.1.2 Testing. Testing shall be conducted in accordance with sting shall be conducted by either individuals as defined in Section 9.105(3)(f), (g), or (i) or an approved third party. A written report vided to the code official. Testing shall be performed at any time	on 553.99 of the resu	3(5) or (7), <i>Florida</i> ults of the test shall	Statues.or individuals be signed by the part	licensed as set forth in Section ty conducting the test and			
1. E con 2. E mea 3. li 4. E 5. H	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.							
Te	esting Company							
Ιh	ompany Name:		e with the 2017 6t		uilding Code			
Si	ignature of Tester:		Date	of Test:				
Pı	rinted Name of Tester:							
Li	cense/Certification #:		Issuing Autho	rity:				

Residential System Sizing Calculation

Summary

Mike Chaddock 230 SW Marynik Dr High Springs, FL Project Title: 191185 Chaddock

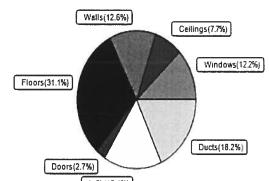
2019-10-30

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)								
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)								
Winter design temperature(TMY3	99%) 30	F	Summer design temperature(TMY	3 99%) 94	F			
Winter setpoint	70	F	Summer setpoint	75	F			
Winter temperature difference	40	F	Summer temperature difference	19	F			
Total heating load calculation	27346	Btuh	Total cooling load calculation	23090	Btuh			
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh			
Total (Electric Heat Pump)	117.0	32000	Sensible (SHR = 0.75)	128.6	24000			
Heat Pump + Auxiliary(0.0kW)	117.0	32000	Latent	180.5	8000			
			Total (Electric Heat Pump)	138.6	32000			

WINTER CALCULATIONS

Winter Heating Load (for 2025 sqft)

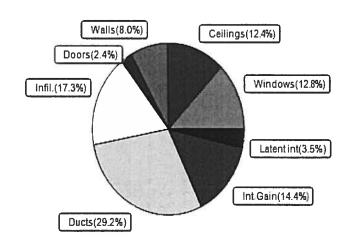
TTOTAL TOTAL TOTAL				
Load component			Load	
Window total	277	sqft	3325	Btuh
Wall total	1116	sqft	3450	Btuh
Door total	47	sqft	747	Btuh
Ceiling total	2086	sqft	2118	Btuh
Floor total	2025	sqft	8496	Btuh
Infiltration	96	cfm	4223	Btuh
Duct loss			4987	Btuh
Subtotal			27346	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			27346	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2025 sqft)

Load component			Load	
Window total	277	sqft	2962	Btuh
Wall total	1116	sqft	1846	Btuh
Door total	47	sqft	560	Btuh
Ceiling total	2086	sqft	2859	Btuh
Floor total			0	Btuh
Infiltration	72	cfm	1505	Btuh
Internal gain			3320	Btuh
Duct gain			5607	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			18659	Btuh
Latent gain(ducts)			1135	Btuh
Latent gain(infiltration)			2497	Btuh
Latent gain(ventilation)	0	Btuh		
Latent gain(internal/occup	800	Btuh		
Total latent gain	4431	Btuh		
TOTAL HEAT GAIN			23090	Btuh





EnergyGauge® System Sizing
PREPARED BY: Evan Beamsley
DATE: 2019-10-30

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Mike Chaddock 230 SW Marynik Dr High Springs, FL Project Title: 191185 Chaddock Building Type: User

2019-10-30

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Component Loads for Whole House

Window	Panes/Type	Fran	ne U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.20	Meta	al 0.30	N	30.0	12.0	360 Btuh
2	2, NFRC 0.20	Meta	al 0.30	E	120.0	12.0	1440 Btuh
3	2, NFRC 0.20	Meta	al 0.30	E	26.7	12.0	320 Btuh
4	2, NFRC 0.20	Meta	al 0.30	S	30.0	12.0	360 Btuh
5	2, NFRC 0.20	Meta	al 0.30	S	26.7	12.0	320 Btuh
6	2, NFRC 0.20	Meta	al 0.30	S	13.3	12.0	160 Btuh
7	2, NFRC 0.20	Meta	al 0.30	W	13.3	12.0	160 Btuh
8	2, NFRC 0.20	Meta	al 0.30	W	6.0	12.0	72 Btuh
9	2, NFRC 0.20	Meta	al 0.30	W	11.1	12.0	133 Btuh
	Window Total				277.1(sqft)	i	3325 Btuh
Walls	Туре	Ornt.	Ueff.	R-Value	Area X	HTM=	Load
	''			(Cav/Sh)		1	
1	Frame - Wood	- Ext	(0.077)	19.0/0.0	330	3.09	1020 Btuh
2	Frame - Wood		(0.077)	19.0/0.0	200	3.09	618 Btuh
3	Frame - Wood		(0.077)	19.0/0.0	270	3.09	835 Btuh
4	Frame - Wood		(0.077)	19.0/0.0	316	3.09	977 Btuh
	Wall Total		. ,		1116(sqft)		3450 Btuh
Doors	Туре	Stor	m Ueff.		Area X	HTM=	Load
1	Insulated - Exte	rior, n	(0.400)		13	16.0	213 Btuh
2	Insulated - Exte				13	16.0	213 Btuh
3	Insulated - Exte				7	16.0	107 Btuh
4	Insulated - Exte		. ,		7	16.0	107 Btuh
5	Insulated - Exte		, ,		7	16.0	107 Btuh
	Door Total	•	, ,		47(sqft)		747Btuh
Ceilings	Type/Color/Surf	ace	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/D/S			38.0/0.0	2086	1.0	2118 Btuh
	Ceiling Total		,		2086(sqft)		2118Btuh
Floors	Туре		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	180.0 ft(per	im.) 47.2	8496 Btuh
	Floor Total		` '		2025 sqft	,	8496 Btuh
					Envelope Subto	otal:	18136 Btuh
1 8114	<u> </u>						
Infiltration	Type	Who		CH Volume			4000 B/ 1
	Natural			.29 2004	3 1.00	96.4	4223 Btuh
Duct load	Average sealed	, R6.0, \$	Supply(Att), Return(Att)	(DLM	of 0.223)	4987 Btuh
All Zones			· · · · · · · · · · · · · · · · · · ·	Sensible	Subtotal All Z	ones	27346 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)
Project Title:

Mike Chaddock 230 SW Marynik Dr High Springs, FL

Project Title: 191185 Chaddock Building Type: User

2019-10-30

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	27346 Btuh 0 Btuh 27346 Btuh
--------------------	--	------------------------------------

EQUIPMENT

	1. Electric Heat Pump	#	32000 Btuh
ı			1

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values) or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor)

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Mike Chaddock 230 SW Marynik Dr High Springs, FL Project Title: 191185 Chaddock

2019-10-30

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

			Тур	e*			Over	hang	Wind	dow Area	a(sqft)	F	ITM	Load	
Window	Panes	SHC	SC U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC				No	N	7.5ft.	0.0ft.	30.0	0.0	30.0	10	10	297	Btuh
2	2 NFRC	0.20	, 0.30) No	No	Ε	7.5ft.	0.0ft.	120.0	120.0	0.0	10	25	1189	Btuh
3	2 NFRC	0.20	, 0.30) No	No	E	7.5ft.	0.0ft.	26.7	24.9	1.8	10	25	291	Btuh
4	2 NFRC	0.20	, 0.30	No No	No	S	7.5ft.	0.0ft.	30.0	30.0	0.0	10	11	297	Btuh
5	2 NFRC	0.20	, 0.30	No No	No	S	7.5ft.	0.0ft.	26.7	26.7	0.0	10	11	264	Btuh
6	2 NFRC	0.20	, 0.30	No No	No	S	7.5ft.	0.0ft.	13.3	13.3	0.0	10	11	132	Btuh
7	2 NFRC	0.20	, 0.30) No	No	W	7.5ft.	0.0ft.	13.3	12.4	0.9	10	25	145	Btuh
8	2 NFRC	0.20	, 0.30) No	No	W	7.5ft.	0.0ft.	6.0	6.0	0.0	10	25	59	Btuh
9	2 NFRC	0.20	, 0.30) No	No	W	7.5ft.	0.0ft.	11.1	10.4	0.7	10	25	121	Btuh
	Excursio	ın					İ							166	Btuh
	Windov	w To	tal						277 (saft)				2962	Btuh
Walls	Туре					U	-Value	e R-\			(sqft)		HTM	Load	
								Cav/S	heath		,				
1	Frame -	Wood	d - Ex	t			80.0	19.0		33	0.0		1.7	546	Btuh
2	Frame -	Wood	d - Ex	t			80.0	19.0	0.0/	20	0.0		1.7	331	Btuh
3	Frame -	Wood	d - Ex	t			80.0	19.0		27	0.0		1.7	446	Btuh
4	Frame -	Wood	d - Ex	t			80.0	19.0	0.0	31	6.2		1.7	523	Btuh
	Wall To	otal								111	6 (sqft)			1846	Btuh
Doors	Type									Area			HTM	Load	
1	Insulated	d - Ex	terior								3.3		12.0	160	Btuh
2	Insulated										3.3		12.0	160	Btuh
3	Insulated										.7		12.0	80	Btuh
4	Insulated										 .7		12.0	80	Btuh
5	Insulated										.7		12.0	80	
	Door T										7 (sqft)				Btuh
Ceilings	Type/C		/Sur	face		U	-Valu	е	R-Valu	e Area			НТМ	Load	
1	Vented A						0.025		38.0/0.0		86.0		1.37	2850	Btuh
'	I			illigie			0.023	•	30.0/0.0				1.07	2859	
	Ceiling	ιοι	aı						/=1		6 (sqft)		LITA		Diun
Floors	Туре	_						K-1	/alue	-	ze		НТМ	Load	
1	Slab On		е						0.0		25 (ft-peri	meter)	0.0		Btuh
	Floor T	otal								2025	.0 (sqft)			0	Btuh
										Ε	nvelope	Subtota	d:	8227	Btuh
Infiltration	Туре					Ave	rage A	ACH	Volu	ıme(cuf	t) Wall R	atio	CFM=	Load	
	Natura	ıl					•	0.22		20048	•		72.3	1505	Btuh
Internal							Occu	pants		Btuh/o	cupant	,	Appliance	Load	
gain								4		X 23			2400	3320	Btuh
										S	ensible l	Envelop	e Load:	13052	Btuh
Duct load	Average	seal	ed, S	upply(F	86.0-A	ittic), F	Return(R6.0-At	tic)		(DG	M of 0.4	30)	5607	Btuh
										Sei	nsible L	oad All	Zones	18659	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mike Chaddock 230 SW Marynik Dr High Springs, FL Project Title: 191185 Chaddock Climate:FL_GAINESVILLE_REGIONAL_A

2019-10-30

WHOLE HOUSE TOTALS Sensible Envelope Load All Zones 13052 Btuh Sensible Duct Load 5607 Btuh **Total Sensible Zone Loads** 18659 Btuh Sensible ventilation 0 Btuh Blower 0 Btuh **Whole House** Total sensible gain 18659 Btuh 2497 Btuh **Totals for Cooling** Latent infiltration gain (for 51 gr. humidity difference) 0 Btuh Latent ventilation gain

EQUIPMENT			
1. Central Unit	#	32000	0 Btuh

Latent occupant gain (4.0 people @ 200 Btuh per person)

*Key: Window types (Panes - Number and type of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value)

Latent duct gain

Latent other gain

Latent total gain

TOTAL GAIN

(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed

For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(½))

(Ornt - compass orientation)



1135 Btuh

800 Btuh 0 Btuh

4431 Btuh

23090 Btuh

Version 8

Single Hung Windows YVS-410 TU Series Windows YKK AP AMERICA

INSTALLATION NOTES.

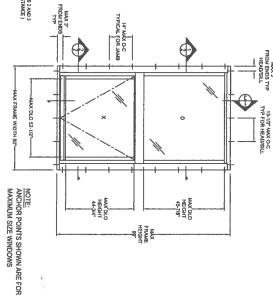
- . ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MAYMMIN NUMBERS OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- 3. HISTALL BIDNIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF \$172 NICH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL, (I.E., WITH OUT CONSIDERATION OF TOLERANCE). TOLERANCE ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- FOR INSTALLATION ON WOOD SUBSTRATE USE #10 WOOD SCREWS, SEE TYPICAL ELEVATION DRAWING AND INSTALLATION DETAILS FOR EMBEDIMENT AND SPACING REQUIREMENTS.
- FOR INSTALLATION ON STEEL FRAME SUBSTRATE AND APPROVED YOU ALL DIMINUM MALLUDIS, USE SUD TEK SCHERYS SEE TYPICAL ELEVATION ORDANING AND INSTALLATION DETAILS FOR EMBEDINENT AND ENGLING REQUIREMENTS. FOR INSTALLATION ON MASCHMY AND CONCRETE SUBSTRAITE, USE 3'16' DAMETER TW TAPCON SCREW'S SEE TYPICAL ELEVATION DRAWING AND INSTALLATION DETAILS FOR EMBEDMENT AND SPACARD REQUIREMENTS
- MANAGA ENDEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHEB, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDNIG.
- . INSTALLATION ANCHORS AND ASSOCIATED HANDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRACTION STREAMS HE WISHALL NOT BE USED IN ACCORDANCE WITH SPECIFED BY THE ANNURAL STREAMSTH SPECIFED BY THE ANNURAL MANUFACTURER.

GENERAL NOTES.

- I. THE PRODUCT SHOWN HEREM IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLOR: DA BUILDING CODE, EXCLUDING REQUIREMENTS FOR HVNZ
- 2. JOEGUACY OR THE EXISTING STRUCTURAL CONCIDETEMASONRY 2X AND STEEL STUD FRAMMA GA MAN WINDD FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERVING MAPELED PRODUCT LOADS TO THE FOLANDATION IS THE RESPONSABLITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND THE INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF
- 1. THE MISTILLATION DETAILS DESCRIBED HEREM ARE CEMERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A BYEIGHT OF THE E STIE COMMITTION CAUSE WISTILLATION TO DETAILE HAND HER READ HEREM A RECEIVED BYEIGHT A LOCKISED BYGINEER OR ARCHITECT SWALL PREPARE SITE SPECIFIC DOCUMENTS FOR LOCKISED BYGINEER OR ARCHITECT SWALL PREPARE SITE SPECIFIC DOCUMENTS FOR LOCKISED BYGINEER OR ARCHITECT SWALL PREPARE SITE SPECIFIC DOCUMENTS FOR LOCKISED BYGINEER OR ARCHITECT SWALL PREPARE SITE SPECIFIC DOCUMENTS FOR LOCKISED BYGINEER OR ARCHITECT SWALL PREPARE SITE SPECIFIC DOCUMENTS FOR LOCKISED BYGINEER OR ARCHITECT SWALL PREPARE SITE SPECIFIC DOCUMENTS FOR LOCKISED BYGINEER SPECIFIC DOCUMENTS FOR LOCKISED BYGINEER SWALL PROPARE SITE SWALL PROPARE SWALL PROPARE SITE SWALL PROPARE SITE SWALL PROPARE SITE SWALL PRO
- THIS PRODUCT REQUIRES IMPACT PROTECTIVE DEVICES YMEN USED AT LOCATIONS REQUIRING IMPACT RESISTANCE
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/AIETAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSUKLAR MATERIALS SWALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BULLDING CODE.

DESIGN PRESSURE = +/- 50 PSF

NOT RATED FOR IMPACT RESISTANCE



(SEE INSTALLATION DETAILS ON BHEETS 2 AND 3 FOR EMBEDMENT DEPTH AND EDGE DISTANCE) MAX FRAME WIDTH BOT

DOW CORNAY 795 STRUCTURAL BILICONE SEALANT

I/I TEMPERED GLASS

34" AIR SPACE

GLASS BITE TYP

GLASS DETAIL
1" Naminal Thickness

THICKNESS, THICKER GLASS SHALL COMPLY WITH ASTM E1300 WHILE MAINTAINING A 1" OVERALL

TYPICAL ELEVATION Digitally signed by Hermes F. Norero, P.E. SCALE: 38" = 1'-0"

William . A RIMES NESF NO TITLE: ITLE: YVS-400 TU SINGLE HUNG WINDOW (N.I) **REVISIONS** NO DESCRIPTION ВУ DATE SONEER *

Quality inspires

SHEET

TABLE OF CONTENTS
SHEET DESCRIPTION

GENERAL NOTES AND ELEVATION HORIZONTAL SECTIONS

YKK AP AMERICA 1229 HWY 441 BYPASS DUBLIN, GEORGIA 31021 PH. (478) 277-1955 FX. (678) B3B-6

VERTICAL SECTIONS
PART DETAILS AND BILL OF MATERIAL

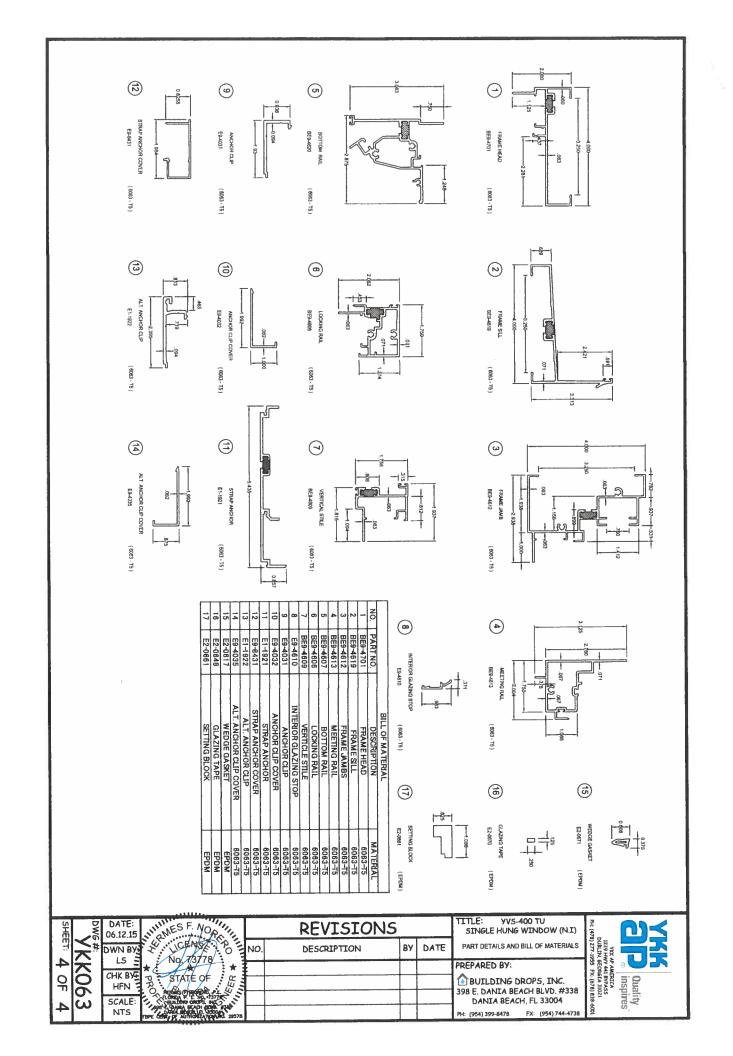
GENERAL NOTES AND ELEVATION PREPARED BY: 📤 BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FX: (954) 744-4731

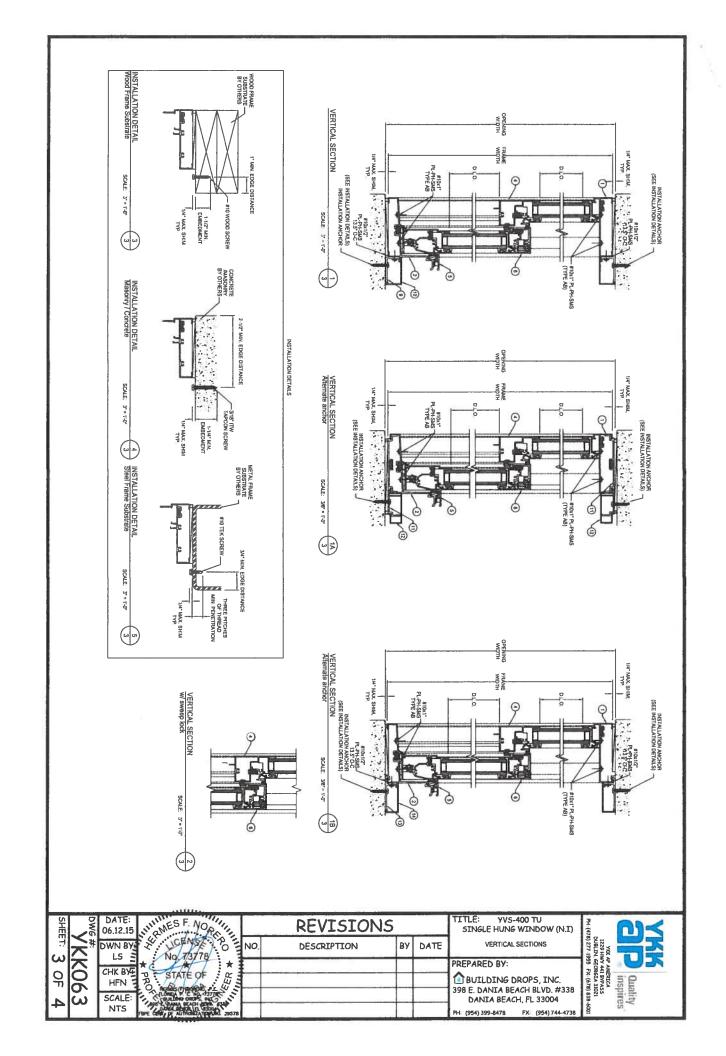
SEE SEPARATE APPROVAL FOR MULLIONS WINDOW WITHIN A SINGLE OPENING YKK STACKING MULLION 4652 MAY BE USED WHEN USING MORE THAN ONE

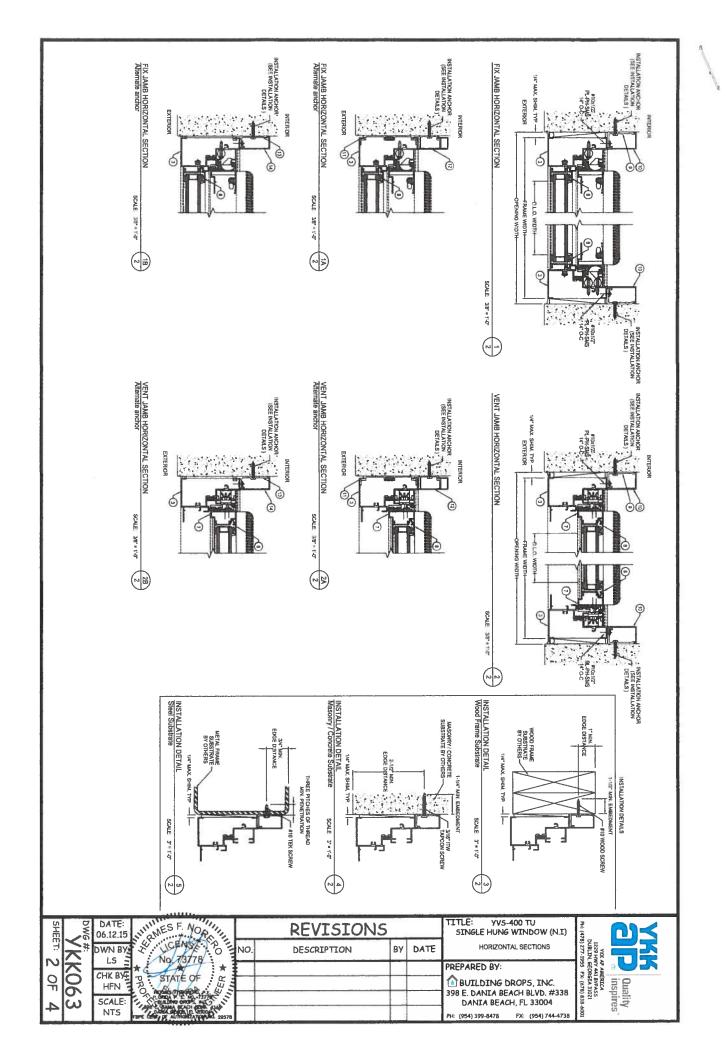
DATE: 06.12.15 DWN BY LS **K06** CHK BY 유 SCALE NT5

Reason: I am approving this document

Date: 2015.06.21 17:25:57 -04'00'









Manual S Compliance Report **Entire House**

Job: Chaddock Date: Nov 05, 2019

By: DJM

Project Information

For:

Chaddock

Cooling Equipment

Design Conditions

Outdoor design DB: 92.0°F Sensible gain: 31983 Btuh Outdoor design WB: 76.3°F Latent gain: 3959 Btuh Indoor design DB: 75.0°F Total gain: 35942 Btuh Indoor RH: 50% Estimated airflow: 1417 cfm

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:

Split ASHP

Manufacturer:

Rheem

Model: RP1542AJ1NA+RH1T4821STANJAUSA

Actual airflow:

1417 cfm

36183 Btuh

113% of load

Sensible capacity: Latent capacity:

3845 Btuh 97% of load

Total capacity:

40028 Btuh 111% of load SHR: 90%

Heating Equipment

Design Conditions

Outdoor design DB: Indoor design DB:

33.4°F 70.0°F Heat loss:

37074 Btuh Entering coil DB:

NER

Entering coil DB:

Entering coil WB:

68.9°F

77.3°F

63.6°F

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:

Split ASHP

Manufacturer:

Rheem

Model: RP1542AJ1NA+RH1T4821STANJAUSA

Actual airflow:

1417 cfm

Output capacity:

Supplemental heat required:

33833 Btuh

91% of load 3241 Btuh

32 °F Capacity balance: -99 °F Economic balance:

Backup equipment type:

Elec strip

Manufacturer:

Actual airflow: Output capacity: 1417 10.7

cfm kW 99% of load

Temp. rise:

50 °F

Meets all requirements of ACCA Manual S.

Model:

Job: Chaddock Date: Nov 05, 2019

DJM

Project Information

For:

Chaddock

Design Information

Gainesville Regional AP, FL, US Weather:

ter Design Conditions

Summer Design Conditions

Outside db Inside db Design TD	33 °F	Outside db	92 °F
	70 °F	Inside db	75 °F
	37 °F	Design TD	17 °F
		Daily range Relative humidity Moisture difference	M 50 % 47 gr/lb

Heating Summary

Sensible Cooling Equipment Load Sizing

29083 7991	Btuh Btuh	Structure Ducts	21644 10339	Btuh Btuh
0	Btuh	Central vent (0 cfm) (none)	0	Btuh
0	Btuh	Blower	0	Btuh
U	Blun			
37074	Btuh	Use manufacturer's data	r	1
		Rate/swing multiplier	0.97	Dtub
	7991 0 0	7991 Btuh 0 Btuh 0 Btuh 0 Btuh 0 Btuh	7991 Btuh Ducts 0 Btuh Central vent (0 cfm) (none) 0 Btuh Blower 0 Btuh 37074 Btuh Use manufacturer's data	7991 Btuh Ducts 10339 0 Btuh Central vent (0 cfm) 0 (none) 0 Btuh Blower 0 0 Btuh 37074 Btuh Use manufacturer's data rate/swing multiplier 0.97

Method Construction quality		Simplified Average	Latent Cooling Equipme	nt Load	d Sizing
Fireplaces		0	Structure Ducts Central vent (0 cfm)	2185 1775 0	
Area (ft²) Volume (ft³)	Heating 2025 16200	Cooling 2025 16200	(none) Equipment latent load	3959	Btuh
Air changes/hour Equiv. AVF (cfm)	0.32 86	0.16 43	Equipment Total Load (Sen+Lat) Req. total capacity at 0.70 SHR	34982 3.7	

Heating Equipment Summary

Cooling Equipment Summary

Rheem

RHEEM

Make

Trade

	RP1542AJ1NA 7512350			Cond Coil	RP1542AJ1 RH1T4821S			
Efficiency Heating input Heating outpu Temperature i Actual air flow Air flow factor Static pressur	nt rise	40000 26 1417 0.038	HSPF Btuh @ 47°F °F cfm cfm/Btuh in H2O	AHRI ref Efficiency Sensible co Latent coolin Total coolin Actual air fl Air flow fact Static press	7512350 poling ing g ow tor	12.5 EER,	15 SEER 29750 12750 42500 1417 0.044	R Btuh Btuh Btuh cfm cfm/Btuh in H2O

Capacity balance point = 32 °F

RHEEM

Make

Trade

Input = 11 kW, Output = 36560 Btuh, 100 AFUE

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



HardiePlank 1710 Lap Siding

JamesHardie EFFECTIVE NOVEMBER 2012

INSTALLATION REQUIREMENTS' - PRIMED & COLORPLUS® PRODUCTS

Visit www. ameshardie.com for the most recent version.

SELECT CEDARMILL° • SMOOTH • CUSTOM COLONIAL™ SMOOTH • CUSTOM COLONIAL™ ROUGHSAWN CUSTOM BEADED CEDARMILL® • CUSTOM BEADED SMOOTH • STRAIGHT-EDGE SHINGLE PLANK

IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND JAMES HARDIE WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY. BEFORE INSTALLATION, CONFIRM THAT YOU ARE USING THE CORRECT HARDIEZONE™ PRODUCT INSTRUCTIONS. INSTALLATION OF HZ10® PRODUCTS OUTSIDE AN HZ10® LOCATION WILL VOID YOUR WARRANTY. TO DETERMINE WHICH HARDIEZONE™ APPLIES TO YOUR LOCATION, VISIT WWW.HARDIEZONE.COM OR CALL 1-866-942-7343 (866 9HARDIE)

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and comers from breakage. James Hardie is not responsible for damage caused by improper storage and handling

of the product.

CUTTING INSTRUCTIONS

OUTDOORS 1. Position cutting station so that wind will blow dust away from user and others in working area.

2. Use one of the following methods:

i. Score and snap ii. Shears (manual, electric or pneumatic b. Better:

i. Dust reducing circular saw equipped with a HardieBlade® saw blade and HEPA vacuum extraction

i. Dust reducing circular saw with a HardieBlade saw blade

(only use for low to moderate cutting)

INDOORS

Cut only using score and snap, or shears (manual, electric or pneumatic).
 Position cutting station in well-ventilated area

NEVER use a power saw indoors

NEVER use a circular saw blade that does not carry the HardieBlade saw blade trademark

NEVER dry sweep - Use wet suppression or HEPA Vacuum

Important Note: For maximum protection (lowest respirable dust production), James Hardie recommends always using "Best"-level cutting methods where feasible.

NIOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.jameshardie.com to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

GENERAL REQUIREMENTS:

HardiePlank° lap siding can be installed over braced wood or steel studs spaced a maximum of 24" o.c. or directly to minimum 7/16" thick OSB sheathing. See general fastening requirements. Irregularities in framing and sheathing can mirror through the finished application.

Information on installing James Hardle products over foam can be located in JH Tech Bulletin 19 at www. jamehardle.com

Figure 2

 A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap1, which complies with building code requirements.

Nail line (If nail

present place fastener

between 3/4"

& 1" from top

of plank)

line is not

When installing James Hardie products all clearance details in figs. 3,4,5,6,7,8,&9 must be followed.

Adjacent finished grade must slope away from the building in accordance with local building codes typically a minimum of 6" in the first 10".

Do not use HardlePlank lap siding in fascia or trim applications.

Do not install James Hardie products, such that they may remain in contact with standing water.

HardiePlank lap siding may be installed on flat vertical wall applications only.

For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie° Siding Products" at www.JamesHardie.com.

DO NOT use stain on James Hardie® products.

water-resistive barrier

Single Wall Construction let-in bracino

24" o.c. max. plywood or OSB sheathing

Double Wall

INSTALLATION:

JOINT TREATMENT

· Joint flashing behind field butt joints is required for ColorPlus and recommended for primed products.

. DO NOT Caulk field butt joints on

ColorPlus siding.*
• It is OK to Caulk field butt joints on James Hardie primed siding products that is to be field painted.

 DO caulk where HardiePlank® meets vertical trim.

*Note: Caulking at field butt joints is not recommended for ColorPlus for aesthetic reasons as the

caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.

water-resistive barrier

HardieZone*
HardiePlank*siding

Note: Field painting over caulking may produce a sheen difference when compared to the field painted PrimePlus, *Refer to Caulking section in these instructions. For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-4Hardie or www.hardiewrap.com

install planks in moderate contact at butt joints

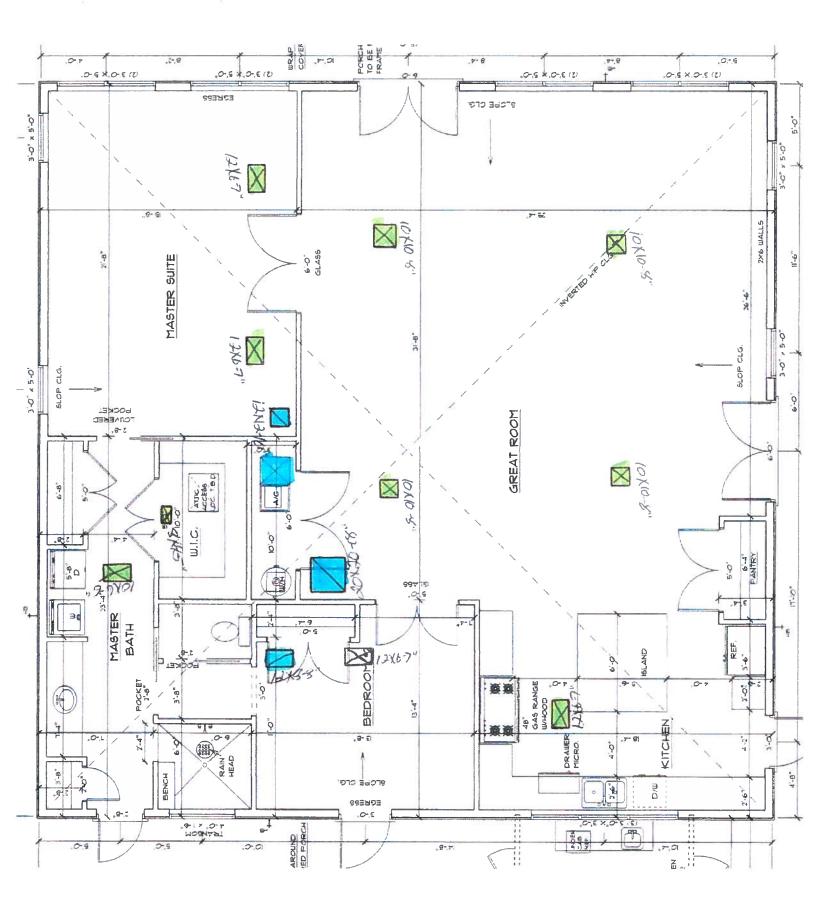
water-resistive barrier Install a 1 1/4" starter strip to ensure a consistent plank angle

leave appropriate gap between planks and trim, then caulk.***

WARNING: AVOID BREATHING SILICA DUST

WARNING: AVOID BREATHING SILICA DUST

James Hardie® products contain respirable crystaltine silica, which is known to the State of California to cause cancer and is considered by IARC and NIOSH to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling; (1) work in outdoor areas with ample ventilation; (2) use fiber cement shears for cutting or, where not feasible, use a HardieBlade® saw blade and dust-reducing circular saw attached to a HEPA vacuum; (3) warm others in the immediate area; (4) wear a property-fitted, NIOSH-approved dust mask or respirator (e.g. N-95) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods - never dry sweep. For further information, refer to our installation instructions and Material Safety Data Sheet available at www.jameshardle.com or by calling 1-800-9HARDIE (1-800-942-7343). FAILURE TO ADHERE TO CUR SCHOOLS PERSONAL INJURY OR DEATH.



Wilson Heat and Air, Inc. PO Box 531 Lake Butler, FL 32054,

Rosenboom-Chaddock





Alachua County, Board of County Commissioners
Department of Growth Management
10 SW 2nd Ave., Gainesville, Fl 32601
Tel. 352.374.5249, Fax. 352.338.3224
http://growth-management.alachua.fl.us

Submit Application to: Building Division

Tel. 352.374.5243 Fax. 352.491.4510

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below. You can find product approval numbers at www.floridabuilding.org. First select "Product Approval". "Find a Product". Then select a category (product), select a manufacturer, and then search. Please include the mfg's installation instructions in your package.

Approval Number(s)

Category/Subcategory	Manufacturer	Product Description	Approvat (autiliber(3)
1. EXTERIOR DOORS			
A. SWINGING	PLAS PEO	11	15215,1
B. SLIDING			
C. SECTIONAL			
D. ROLL UP			
E. AUTOMATIC			
F. OTHER			
2. WINDOWS			
A. SINGLE HUNG	YKK :		12878.
B. HORIZONTAL SLIDER			
C. CASEMENT			The state of the s
D. DOUBLE HUNG			
E. FIXED			
F. AWNING			
G. PASS THROUGH			
H. PROJECTED			
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
3. ROOFING PRODUCTS			110 5/ 5/2
A. ASPHALT SHINGLES	TAMKO		1956 R12
B. UNDERLAYMENTS			
C. ROOFING FASTENERS			
D. NON-STRUCTURAL METAL			
ROOFING			
E. WOOD SHINGLES & SHAKES			
F. ROOFING TILES			
G. ROOFING INSULATION			
H. WATERPROOFING			
I. BUILT-UP ROOFING ROOF SYSTEMS			
J. ROOFING SLATE			
K. LIQUID APPLIED ROOF			
SYSTEMS			
L. ROOF TILE ADHESIVE			
M. SPRAY APPLIED POLYURETHANE			
ROOF			
N. OTHER			
4. SKYLIGHTS			
5. NEW EXTERIOR ENVELOPE PRODUCTS The products listed below did not demonstrate		the state of the s	sting of those products the

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturer's installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Signature of Applicant	Date ///	17/1	19
		/	

CETHS

DESCRIPTION

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Buck and frame anchoring - 2X buck masonry construction frame anchoring - 1X buck masonry construction
Bill of materials, glazing detail & components

Vertical cross sections

Typical elevation, design pressures, & general notes

Door panel details



5200 W. CENTURY BLVD. LOS ANGELES, CA 90045

FLUSH GLAZED FIBERGLASS DOOR INSWING / OUTSWING ONELITE SERIES "NON-IMPACT"

GENERAL NOTES

- This product has been evaluated and is in compliance with the 2010 Horida Building Code (FBC) structural requirements excluding the "High Velocity Hunicane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing ar stucco.

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- When used in areas requiring wind bome debris protection this product is required to be protected with an impact resistant covering that complies with Section 1609.1.2 of the 2010 RBC.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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	82.00° MAX. OVERALL FRAME HEIGHT - INSWING	1
	○ ○×	37.50" MAX, OVERALL FRAME WIDTH

OUTSWING	- 1	INSWING		できるのできるというというというできるというでものできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというでものできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというでものできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというできるというでもできるというできるというできるというできるというできるというできるというできるというできるというでもできるというでもできるというでもできるとというでもできるというでもできるというでもでもできるともでもでもでもでもでもできるともでもでもでもでもでもでもでもでもでもでもでもでもでもでもでもでもでもでもで	#4X	SPINO	ないまではいること
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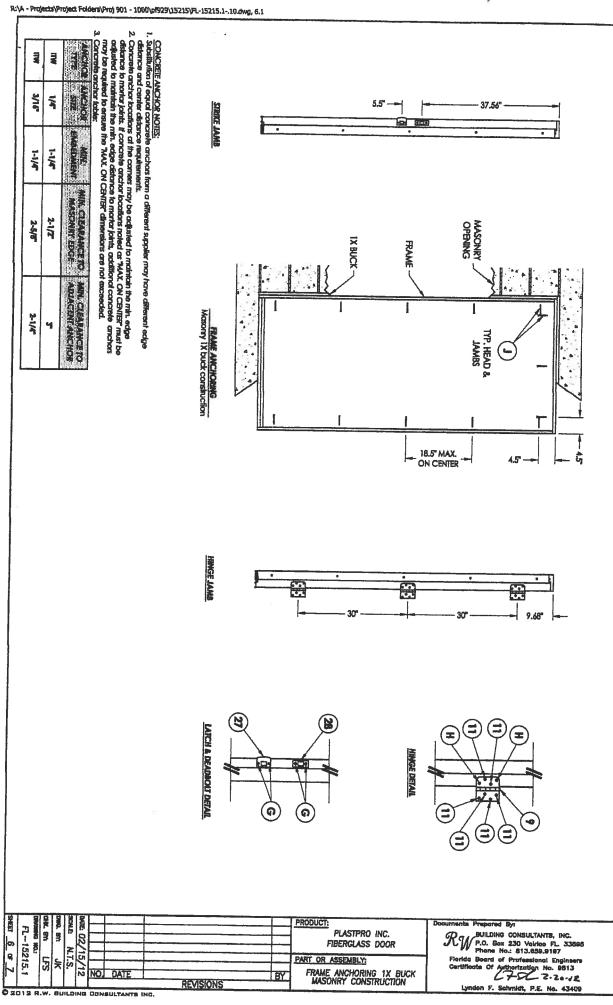
CHK. BY:	DANC BAS		PRODUCT: PLASTPRO INC.
15215.1 R. N. 1	N.T.S.	NO DATE REVISIONS CONSULTANTS INC.	FIBERGLASS DOOR PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

Currents Prepared By:

PU BUILDING CONSULTANTS, NG.
P.O. Box 230 Vatrico FL, 33595
Phone No.: 813.659.9197

Florida Beard of Professional Engineers
Certificate Of Authorization No. 9813

Lyndon F. Schmidt, P.E. No. 43409





Certificate of Product Ratings

AHRI Certified Reference Number: 201631373 Date 11-06-2019 Model Status Active

Old AHRI Reference Number 7512350

AHRI Type: HRCU-A-CB

Outdoor Unit Brand Name: RHEEM

Outdoor Unit Model Number (Condenser or Single Package): RP1542AJ1 Indoor Unit Model Number (Evaporator and/or Air Handler): RH1T4821STAN

The manufacturer of this RHEEM product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of ANSI/AHRI 210/240 with Addenda 1 and 2, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh: 42500

SEER: 15.00

EER (A2) - Single or High Stage (95F): 12.50

Heating Capacity (H12) - Single or High Stage (47F): 40000

HSPF (Region IV): 9.00

†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale, OR new models that are being marketed but are not yet being produced "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.
Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating

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AIR-CONDITIONING, HEATING, & REFRIGERATION INSTITUTE

CERTIFICATE NO.:

132175225429183933

THIR

DESCRIPTION

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Frame anchoing - 1X buck masony construction
Bill of materials, glazing detail & components



5200 W. CENTURY BLVD. plastpro

LOS ANGELES, CA 90045

FLUSH GLAZED FIBERGLASS DOOR INSWING / OUTSWING **ONELITE SERIES** "NON-IMPACT"

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Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

	82.00° MAX. OVERALL FRAME HEIGHT - INSWING	
	○ ○ ×	37.50° MAX. OVERALL FRAME WIDTH

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	1 8	\$; ;	3	"	2				PLASTPRO INC.
-	152	1		2	1				FIBERGLASS DOOR
읶				-	5				
N	Çī	S	₹	'n	7				PART OR ASSEMBLY:
, ,	_	H			N	NO.	DATE	BY	TYPICAL ELEVATION DESIGN
1			_					PENISIONS	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
J 20	112 F	e.w.	an	ILDI	110	CON	BULTANTS I	io.	

Cuments Propored By:

RWEDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.659,9197
Florido Board of Professional Engineers
Certificate Of Authorization No. 9813

2 20-12
Lynden F. Sehmidt, P.E. No. 43409

- Proj	ects'/Pr	rojad Foi	ders/Proj 901 - 1000	ipf929\15215	VFL-15215.1	10.dwg, 6.1			*
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						Ш	, I	18 OI	3.5" MAX. 4.5" 4.5"
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FL-	CHIC. BY	THOSE C					PRODUCT:	INC.	Documents Prepared By:
15215.1	55	N.T.S.		R	MISIONS	BY	FIBERGLASS PART OR ASSEMBLY: FRAME ANCHORIN MASONRY CONS	DOOR	BUILDING CONSULTANTS, INC. P.O. Box 230 Velrice Ft. 33595 Phone No.: 813.659.9197 Florida Board of Professional Engineers Certifloats Of Authorization No. 8813

C 2012 R.W. BUILDING CONSULTANTS INC.



Certificate of Product Ratings

AHRI Certified Reference Number: 201631373

Date: 11-06-2019

Model Status : Active

Old AHRI Reference Number: 7512350

AHRI Type : HRCU-A-CB

Outdoor Unit Brand Name: RHEEM

Outdoor Unit Model Number (Condenser or Single Package): RP1542AJ1
Indoor Unit Model Number (Evaporator and/or Air Handler): RH1T4821STAN

The manufacturer of this RHEEM product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of ANSI/AHRI 210/240 with Addenda 1 and 2, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh: 42500

SEER: 15.00

EER (A2) - Single or High Stage (95F): 12.50

Heating Capacity (H12) - Single or High Stage (47F): 40000

HSPF (Region IV): 9.00

†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale, OR new models that are being marketed but are not yet being produced "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

DISCLAIMER

AHRI does not endorse the product(s) listed on this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed on this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data listed on this Certificate. Certified ratings are valid only for models and configurations listed in the directory at www.ahridirectory.org.

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This Certificate and its contents are proprietary products of AHRI. This Certificate shall only be used for individual, personal and confidential reference purposes. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference.

CERTIFICATE VERIFICATION

The Information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.

©2019 Air-Conditioning, Heating, and Refrigeration Institute

CERTIFICATE NO.: 1

& REFRIGERATION INSTITUTE

we make life better*

132175225429183933

Hardie Plank 1710 Lap Siding

JamesHardie EFFECTIVE NOVEMBER 2012

INSTALLATION REQUIREMENTS' - PRIMED & COLORPLUS® PRODUCTS

Visit www.jameshardie.com for the most recent version.

SELECT CEDARMILL° • SMOOTH • CUSTOM COLONIAL™ SMOOTH • CUSTOM COLONIAL™ ROUGHSAWN CUSTOM BEADED CEDARMILL® • CUSTOM BEADED SMOOTH • STRAIGHT-EDGE SHINGLE PLANK

IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND JAMES HARDIE WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY. BEFORE INSTALLATION, CONFIRM THAT YOU ARE USING THE CORRECT HARDIEZONE™ PRODUCT INSTRUCTIONS. INSTALLATION OF HZ10® PRODUCTS OUTSIDE AN HZ10® LOCATION WILL VOID YOUR WARRANTY. TO DETERMINE WHICH HARDIEZONE™ APPLIES TO YOUR LOCATION, VISIT WWW.HARDIEZONE.COM OR CALL 1-866-942-7343 (866 9HARDIE)

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage, James Hardie is not responsible for damage caused by improper storage and handling of the product.



CUTTING INSTRUCTIONS

OUTDOORS 1. Position cutting station so that wind will blow dust away from user

and others in working area.

2. Use one of the following methods: i. Score and snap a. Best:

ii. Shears (manual, electric or pneumatic)

i. Dust reducing circular saw equipped with a HardieBlade® saw blade and HEPA vacuum extraction

i. Dust reducing circular saw with a HardieBlade saw blade (only use for low to moderate cutting)

INDOORS

1. Cut only using score and snap, or shears (manual, electric or pneumatic). 2. Position cutting station in well-ventilated area

NEVER use a power saw indoors

NEVER use a circular saw blade that does not carry the HardieBlade saw blade trademark NEVER dry sweep — Use wet suppression or HEPA Vacuum

Important Note: For maximum protection (lowest respirable dust production), James Hardie recommends always using "Best"-level cutting methods where feasible.

NIOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.jameshardie.com to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

GENERAL REQUIREMENTS:

HardiePlank° lap siding can be installed over braced wood or steel studs spaced a maximum of 24" o.c. or directly to minimum 7/16" thick OSB sheathing. See general fastening requirements. Irregularities in framing and sheathing can mirror through the finished application.

Information on installing James Hardie products over foam can be located in JH Tech Bulletin 19 at www. jamehardie.com

A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap1, which complies with building code requirements.

When installing James Hardie products all clearance details in figs. 3,4,5,6,7,8,&9 must be followed.

Adjacent finished grade must slope away from the building in accordance with local building codes typically a minimum of 6" in the first 10'.

Do not use HardlePlank lap siding in fascia or trim applications.

Do not install James Hardie products, such that they may remain in contact with standing water.

HardiePlank lap slding may be installed on flat vertical wall applications only.

· For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at www.JamesHardie.com.

DO NOT use stain on James Hardie® products.

Double Wall Construction water-resistive harrier

Single Wall Construction

let-in bracing 24" o.c. max. plywood or OSB sheathing

INSTALLATION:

JOINT TREATMENT

· Joint flashing behind field butt joints is required for ColorPlus and recommended for primed products.

. DO NOT Caulk field butt joints on

ColorPlus siding.*
• It is OK to Caulk field butt joints on James Hardie primed siding products that is to be field painted.

 DO caulk where HardiePlank® meets vertical trim.

*Note: Caulking at field butt joints is not

recommended for ColorPlus for aesthetic reasons as the

fastener between 3/4" & 1" from top water-resistive barrier of plank) HardieZone™ irdiePlank*siding install planks in moderate contact at butt joints

Figure 2

line is not present place

Nail line (If nail

caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products. leave appropriate gap between planks and trim, then caulk.*** **Note: Field painting over caulking may produce a sheen difference when compared to the field painted PrimePlus. ***Refer to Caulking section in these instructions.

For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-4Hardie or www.hardiewrap.com

WARNING: AVOID BREATHING SILICA DUST

WARNING: AVOID BREATHING SILICA DUST
James Hardie* products contain respirable crystalline silica, which is known to the State of California to cause cancer and is considered by IARC and NIOSH to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) use fiber cernent shears for cutting or, where not feasible, use a HardieBladde* saw blade and dust-reducing circular saw attached to a HEPA vacuum; (3) warm others in the immediate area; (4) wear a properly-fitted, NIOSH-approved dust mask or respirator (e.g. N-95) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods - never dry sweep. For further information, refer to our installation instructions and Material Safety Data Sheet available at www.jameshardie.com or by calling 1-800-9HARDIE (1-800-942-7343). FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

water-resistive

fastener

Install a 1 1/4" starter strip to

ensure a consistent plank angle

Single Hung Windows YKK AP AMERICA YVS-410 TU Series Windows

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBERS OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- FOR 1937-ALATION ON WOOD SUBSTRATE USE 910 WOOD SCIENTS, SEE TYPICAL ELEVATION DRAWNOD AND INSTALLATION DETAAS FOR EMBEDINENT AND SPACING REQUIREMENTS. INSTALL REMYBULUL INSTALLATION ANCHORS WITHIN A TOLERANCE OF 112 NCH OF THE EXPORTED CICKATION IN THE ANCHOR LANGUT DETAIL (I.E. WITH OUT COMSIDERATION OF TOLERANCE; TOLERANCE ARE NOT CLANULATIVE PROMICHE INSTALLATION ANCHOR TO THE HIST.
- FOR INSTALLATION ON MASONAY AND CONCRETE SUBSTRATE, USE 3/16" DIAMETER THY TAPCON SCREENS SEET TYPICAL ELECATION DRAWING AND INSTALLATION DETAILS FOR EMBEDMENT AND SPACING REQUIREMENTS.
- FOR INSTALLATION ON STREL FRAME SUBSTRATE AND APPROVED YOU ALLUKINUM MAILLIONS, USES TO TEX SCREWS SEE TYPE/ALLEI/AND DRAWING AUD INSTALLATION DETAILS FOR EMBEDINENT AND SPACING REQUIREMENTS.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. MINION EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO BTUCCO, FOAM, BRICK VENEER, AND SIDING.
- NISTALATION ANCHORS SHALL BE INSTALED IN ACCORDANCE WITH ANCHOR MANUFACTURERS INSTALATION HISTRUCTIONS, AND ANCHORS SHALL MOT BE USED IN SUBSTRAITES WITH STREAMTHS. ESIS THAN THE MARKAM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

- INSTALATION AND HIS CAPACITES FOR PRODUCTS HETCH ARE DAKED ON SUBSTRATE
 MATERIALS WITH THE FOLLOWING PROPERTIES:
 A WOOD-HAN MAY REPORT EXPANT FOR ESS.
 A WOOD-HAN MAY REPORT EXPANT FOR ESS.
 CONCESTE: MINIMAN 2023 FOR CAPACITES STEADING
 CONCESTE: MINIMAN MAY SHE CONCESTED AS HIS CAPACITY FOR CAPACITY
 CONCESTE: MINIMAN HIS DESTRAIN FOR 21 KMS. LIMINALLI WALL PROPERTIES FOR DAY
 E. MULTIVARIA- MINIMAL MINICAS FOR DAY.
 E. MULTIVARIA- MINIMAL MINICAS FOR DOT

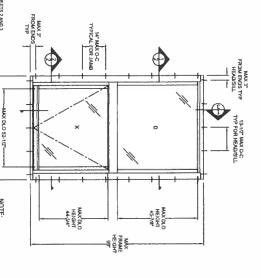
GENERAL NOTES:

- . THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLOREDA BUILDING CODE, EXCLUDING REQUIREMENTS FOR HYAZ
- 2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETEMASONRY , 2X AND STEEL STUD FRANKING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE POUNDATION IS THE RESPONSEILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- . 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOUDS TO THE STRUCTURE. BUCK DESIGN AND THE INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER ON ARCHITECT OF RECORD FOR THE PROJECT OF
- THE RISTILLATION RETALS DESCREED HEREIN ARE GEREID AND MAY NOT RETLECT ACTUAL COMMITTONS LIFEA, A SECURED FOR THE THE COMMITTING ALIASE WISTALLATION TO DEVIATE FROM THE REQUIREMENTS DETALED HEREIN, A LICENSED BROWNER ON ANOTIFICT SMALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- THIS PRODUCT REQUIRES MAPACT PROTECTIVE DEVICES WHEN USED AT LOCATIONS REQUIRENG IMPACT RESISTANCE.
- . MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUX,DING CODE.

DESIGN PRESSURE = +/- 50 PSF

NOT RATED FOR IMPACT RESISTANCE

(SEE INSTALLATION DETAILS ON SHEETS 2 AND : FOR EMBEDMENT DEPTH AND EDGE DISTANCE)



TYPICAL ELEVATION SCALE: 3/8" = 1'-0"

AX FRAME WIDTH 60"

MAXIMUM SIZE WINDOWS

WHILE MAINTAINING A 1" OVERALL THICKNESS, THICKER GLASS SHALL COMPLY WITH ASTM E1300

GLASS DETAIL
1" Nominal Thickness

GLASS BITE TYP

EXTERVOR

1/8" TEMPERED GLASS

34" AIR SPACE

Reason: I am approving this document Digitally signed by Hermes F. Norero, P.E. Date: 2015.06.21 17:25:57 -04'00'

YKK063

<u>1</u> 유

06.12.15 J6.IL JWN BY

CHK BY

SCALE:

NTS

NOTE: ANCHOR POINTS SHOWN ARE FOR STATE OF STA William . REVISIONS ВУ DATE DESCRIPTION

TLE: YVS-400 TU SINGLE HUNG WINDOW (N.I.) TITLE: GENERAL NOTES AND ELEVATION

YKK STACKING MULLION 4652 MAY BE USED WHEN USING MORE THAN ONE

SEE SEPARATE APPROVAL FOR MULLIONS WINDOW WITHIN A SINGLE OPENING

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FX: (954) 744-4738

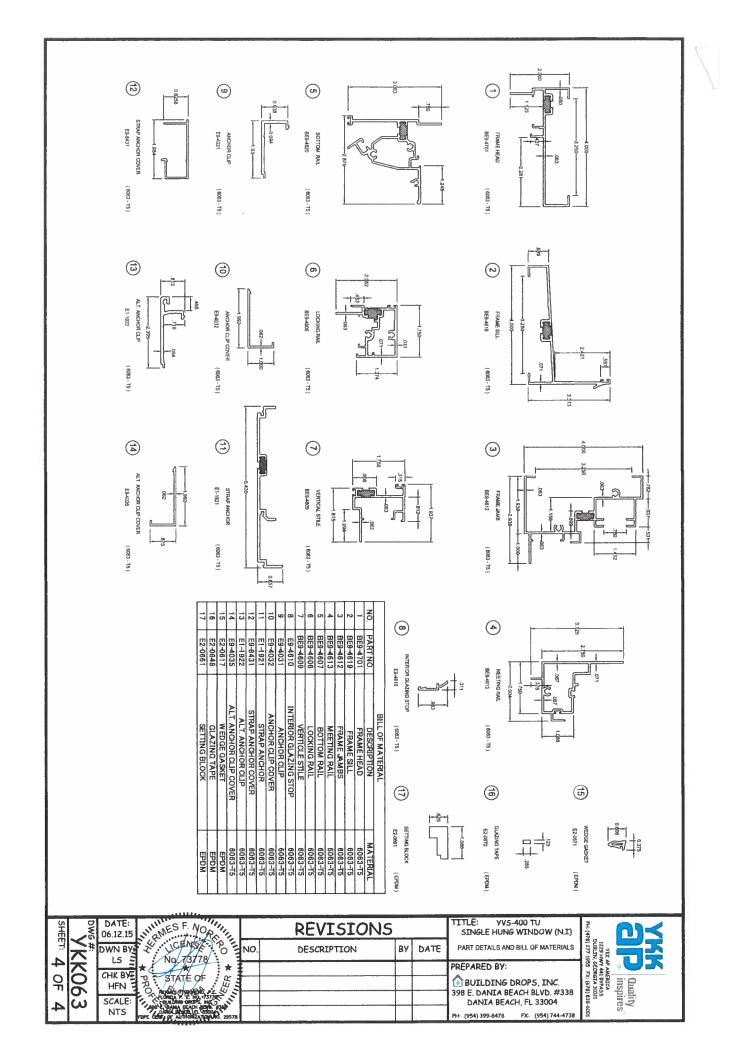
YKK AP AMERICA 1229 HWY 441 BYPASS DUBLIN, GEORGEA 31021 PH: (478) 277-1955 FX: (678) 838-6

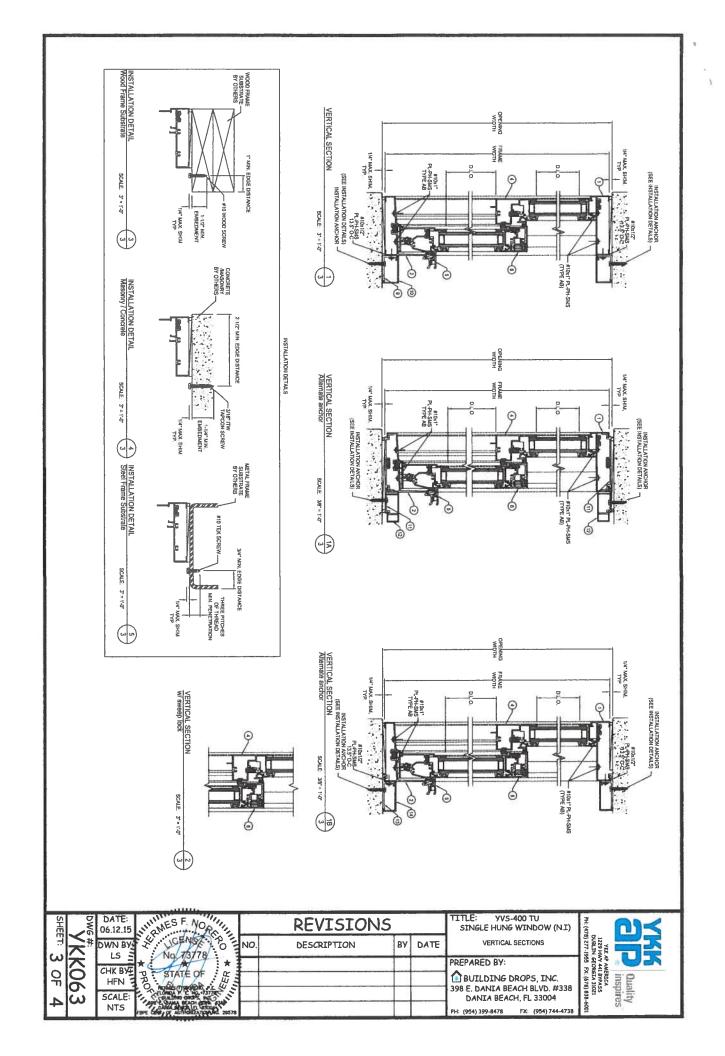
VERTICAL SECTIONS
PART DETAILS AND BILL OF MATERIALS

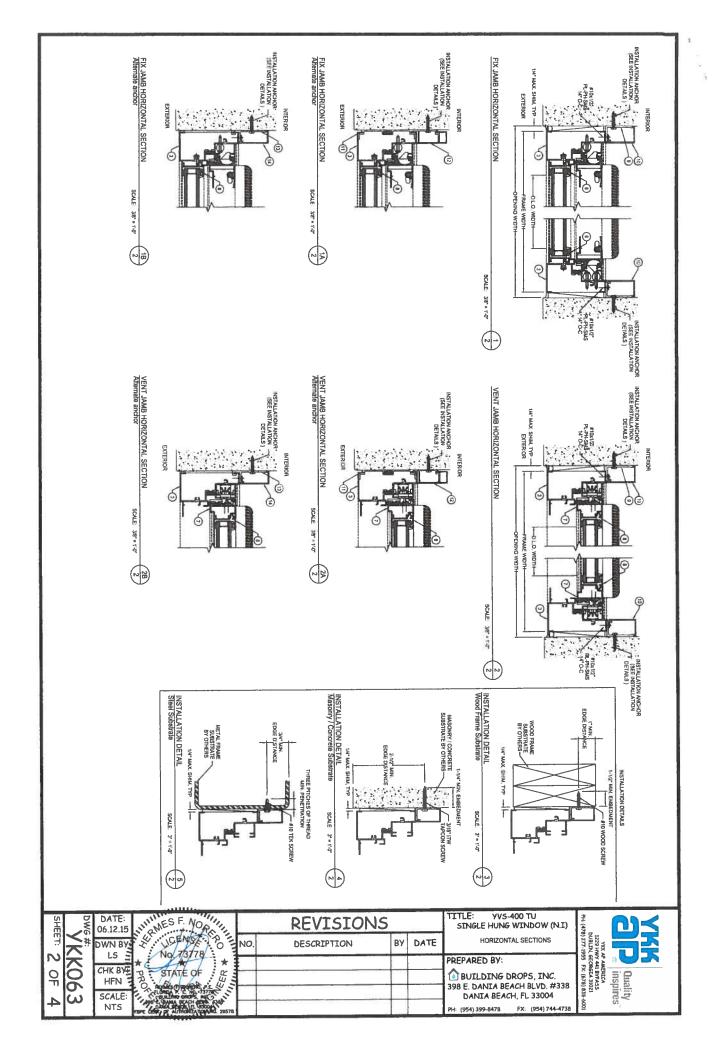
Quality inspires

SHEET

TABLE OF CONTENTS SHEET DESCRIPTION
GENERAL NOTES AND ELEVATION HORIZONTAL SECTIONS







As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS	ENTEREY	IMPACT	01-0314-18
A. SWINGING	X1A		
B. SLIDING	NH		
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	YKK	5 H	YKK 134
B. HORIZONTAL SLIDER	112		
C. CASEMENT	NA		
D. FIXED	N. in.		
E. MULLION	N/H NA		
F. SKYLIGHTS			
G. OTHER	NA		
3. PANEL WALL			
A. SIDING	HARDE	BIANCE	
B. SOFFITS	NA		
C. STOREFRONTS	NA		
D. GLASS BLOCK	NA		
E. OTHER	NA		
4. ROOFING PRODUCTS			
	Continue	7.7	00 /3/6 -3
A. ASPHALT SHINGLES B. NON-STRUCT METAL	CERTHINTEED	DEMEUSIONAL	02-1219.03
C. ROOFING TILES	NA -		
D. SINGLE PLY ROOF	NA- NW XIA-		
	X IF		
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	5:110 00 000	ON PLAINS	
B. WOOD ANCHORS	Sympsoxs		
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS	1/		
F. OTHERS	V		
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			
THATTOLT LUODOCIS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

NOTES:	 	



COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2017 EFFECTIVE 1 JANUARY 2018

AND THE NATIONAL ELECTRICAL 2014 EFFECTIVE 1 JANUARY 2018

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS, FBC 1609.3.1 THRU 1609.3.3.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES Revised 7/1/18

Website: http://www.columbiacountyfla.com/BuildingandZoning.asp

GENERAL REQUIREMENTS:

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

2 All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void

3 Condition space (Sq. Ft.) 2025 Total (Sq. Ft.) under roof 3249

1 Two (2) complete sets of plans containing the following:

	signers name and signature shall be on all documents and a licensed architect or engineer, signature and libe affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL 1		embossed	seal
Si	te Plan information including:			
4	Dimensions of lot or parcel of land	-V		
5	Dimensions of all building set backs	-1		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed	1/		
	well and septic tank and all utility easements.	-		
7	Provide a full legal description of property.	-iv		
w	ind-load Engineering Summary, calculations and any details are required.			
	GENERAL REQUIREMENTS:	I	s to Includ	
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Box shall	be
		1	ircled as	
			olicable	
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	N.A
0		Select Fro	m Drop	down
9	Basic wind speed (3-second gust), miles per hour (Wind exposure – if more than one wind exposure	- '-		
	LWING exposure = it more than one wind exposure			
10		- :/		
	is used, the wind exposure and applicable wind direction shall be indicated)	- :/		
11		- :/		
	is used, the wind exposure and applicable wind direction shall be indicated) Wind importance factor and nature of occupancy The applicable internal pressure coefficient, Components and Cladding	- :/		
11	is used, the wind exposure and applicable wind direction shall be indicated) Wind importance factor and nature of occupancy The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component,	• /		
11	is used, the wind exposure and applicable wind direction shall be indicated) Wind importance factor and nature of occupancy The applicable internal pressure coefficient, Components and Cladding	• /		
11 12 13	is used, the wind exposure and applicable wind direction shall be indicated) Wind importance factor and nature of occupancy The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	- /		
11 12 13	is used, the wind exposure and applicable wind direction shall be indicated) Wind importance factor and nature of occupancy The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component,	- /		
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11 12 13 Ele	is used, the wind exposure and applicable wind direction shall be indicated) Wind importance factor and nature of occupancy The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional. Evations Drawing including: All side views of the structure Roof pitch	- /		
11 12 13 Ele 14	is used, the wind exposure and applicable wind direction shall be indicated) Wind importance factor and nature of occupancy The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional. Evations Drawing including: All side views of the structure	·/		
11 12 13 Ele 14 15 16	is used, the wind exposure and applicable wind direction shall be indicated) Wind importance factor and nature of occupancy The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional. Evations Drawing including: All side views of the structure Roof pitch Overhang dimensions and detail with attic ventilation	-/ -/		
11 12 13 Ele 14 15 16 17	is used, the wind exposure and applicable wind direction shall be indicated) Wind importance factor and nature of occupancy The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional. Evations Drawing including: All side views of the structure Roof pitch Overhang dimensions and detail with attic ventilation Location, size and height above roof of chimneys	-/ -/		

Items to Include-Each Box shall be

Circled as

Applicable
Select From Drop down

No

NA

2

Yes

Floor Plan Including:

	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches,		
21	deck, balconies		
22	Raised floor surfaces located more than 30 inches above the floor or grade	- /	
23	All exterior and interior shear walls indicated		
24	Shear wall opening shown (Windows, Doors and Garage doors)		
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each		
	bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the		
}	opening of an operable window is located more than 72 inches above the finished grade or surface		
	below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above	-	1
	the finished floor of the room in which the window is located. Glazing between the floor and 24		
	inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.		
26	Safety glazing of glass where needed	- V	
	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth		
27	(see chapter 10 and chapter 24 of FBCR)	ALK	
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	1 A	
		PA	
29	Identify accessibility of bathroom (see FBCR SECTION 320)		

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

GENERAL REQUIREMENTS:

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls) 38 Show all materials making up walls, wall height, and Block size, mortar type 39 Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement

APPLICANT – PLEASE CHECK ALL APPLICABLE	1	Each Bo	ox shall be cled as licable
FBCR 403: Foundation Plans			
		Select Fro	om Drop down
Location of all load-bearing walls footings indicated as stan and type of reinforcing.	dard, monolithic, dimensions, size	/	
31 All posts and/or column footing including size and reinforci	ng	-V	
32 Any special support required by soil analysis such as piling.		- i/	
	er Square Foot	Mer	
Location of horizontal and vertical steel, for foundation or with foundation which establish new electrical utility comp Encased Electrode will be required within the foundation to Per the National Electrical Code article 250.52.3	anies service connection a Concrete	-780	
FBCR 506: CONCRETE SLAB ON GRADE			
35 Show Vapor retarder (6mil. Polyethylene with opints la con 6 i	nches and sealed)	- 0	
36 Show control j oints, synthetic fiber reinforcement or welded	fire fabric reinforcement and Sports		
FBCR 318: PROTECTION AGAINST TERMITES			
Indicate on the foundation plan if soil treatment is used for Submit other approved termite protection methods. Protection termiticides	•	/	

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Items to Include-

Floor Framing System: First and/or second story

_			
40	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	WHV	
41	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers	NKI	
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	- V	
43	Attachment of joist to girder	- /	
44	Wind load requirements where applicable	- V	
45	Show required under-floor crawl space	-WAV	
46	Show required amount of ventilation opening for under-floor spaces	-NAV	
47	Show required covering of ventilation opening	- V	
48	Show the required access opening to access to under-floor spaces	-N/W	
49	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	NAV	
50	Show Draftstopping, Fire caulking and Fire blocking	- V	
51	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	- V	
52	Provide live and dead load rating of floor framing systems (psf).	-NAV	

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL Applicable Select from Drop down

		orect in our brop	CO 11 1
53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls		
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown	- 🗸	
55	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	- /	
56	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	-/	
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC-R602.7.	- i/	
58	Indicate where pressure treated wood will be placed	- /	
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	- V	
60	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	- :/	

FBCR:ROOFSYSTEMS:

61	Truss design drawing shall meet section FBC-R 802.10. 1 Wood trusses	-	V	
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	-	:/	
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	-		
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	-	V	
65	Provide dead load rating of trusses	-	-	

FBCR 802: Conventional Roof Framing Layout

66	Rafter and ridge beams sizes, span, species and spacing	- V	
67	Connectors to wall assemblies' include assemblies' resistance to uplift rating	. /	
68	Valley framing and support details	- /	
69	Provide dead load rating of rafter system	- 1	

FBCR 803 ROOF SHEATHING

70	Include all materials which will make up the roof decking, identification of structural panel	./	
	sheathing, grade, thickness	- /	
71	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas		

ROOF ASSEMBLIES FRC Chapter 9

-		-	
72	Include all materials which will make up the roof assembles covering	- 2	
73	Submit Florida Product Approval numbers for each component of the roof assembles covering	- /	

FBCR Chapter 11 Energy Efficiency Code for Residential Building

Residential construction shall comply with this code by using the following compliance methods in the FBCR Chapter 11 Residential buildings compliance methods. Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.

	GENERAL REQUIREMENTS:		Include- ox shall be
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		led as
			licable
		Select from I	
74		seleci from i	Drop Down
75			
	Exterior wall cavity		
77		1.15	
111	Cidwi space	Vav	
H	VAC information		
	Submit two copies of a Manual J sizing equipment or equivalent computation study	T- :/ T	
79			
Ì	20 cfm continuous required	- 1	
80	Show clothes dryer route and total run of exhaust duct	- 1	
	umbing Fixture layout shown		
	All fixtures waste water lines shall be shown on the foundationplan	- 1	
82	Show the location of water heater	- :/	
D.	*		
	ivate Potable Water	1 . /	
	Pump motor horse power	-NAV	
84	Reservoir pressure tank gallon capacity	- NAV	
85	Rating of cycle stop valve if used	1- NOV	
El	ectrical layout shown including		
86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	- 1	
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected		
	by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	-	
88	Show the location of smoke detectors & Carbon monoxide detectors	- /	
89	Show service panel, sub-panel, location(s) and total ampere ratings	- 15	
	On the electrical plans identify the electrical service overcurrent protection device for the main		
	electrical service. This device shall be installed on the exterior of structures to serve as a)]
90	and the control of th		
	disconnecting means to a panel or sub panel shall have four-wire conductors, of which one		
	conductor shall be used as an equipment ground. Indicate if the utility company service entrance	/	
	cable will be of the overhead or underground type.	V	
	For structures with foundation which establish new electrical utility companies service		
	connection a Concrete Encased Electrode will be required within the foundation to serve as an		
	Grounding electrode system. Per the National Electrical Code article 250.52.3		
91	Appliances and HVAC equipment and disconnects		
92	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed	 	
_	in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms,	./	
	sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by		
	a listed Combination arc-fault circuit interrupter, Protection device.		

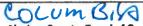
Notice Of Commencement:

A notice of commencement form RECORDED in the Columbia County Clerk Office is required to be filed with the Building Department BEFORE ANY INSPECTIONS can be performed.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
	Applicable

ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT. Select from Drop down Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed. 94 Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058 96 City of Lake City A City Water and/or Sewer letter. Call 386-752-2031 97 N AN Toilet facilities shall be provided for all construction sites 98 Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit. Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the NAV Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municode.com) CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required. A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00 - Uke **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept, determines the size 102 and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit 911 Address: An application for a 911 address must be applied for and received through the Columbia 103 County Emergency Management Office of 911 Addressing Department (386) 758-1125.

Ordinance Sec. 90-75. - Construction debris. (e) It shall be unlawful for any person to dispose of or discard solid waste, including construction or demolition debris at any place within the county other than on an authorized disposal site or at the county's solid waste facilities. The temporary storage, not to exceed seven days of solid waste (excluding construction and demolition debris) on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance, shall not be deemed a violation of this section. The temporary storage of construction and demolition debris on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance shall not be deemed in violation of this section; provided, however, such construction and demolition debris must be disposed of in accordance with this article prior to the county's issuance of a certificate of occupancy for the premises. The burning of lumber from a construction or demolition project or vegetative trash when done so with legal and proper permits from the authorized agencies and in accordance with such agencies' rules and regulations, shall not be deemed a violation of this section. No person shall bury, throw, place, or deposit, or cause to be buried, thrown, placed, or deposited, any solid waste, special waste, or debris of any kind into or on any of the public streets, road right-of-way, highways, bridges, alleys, lanes, thoroughfares, waters, canals, or vacant lots or lands within the county. No person shall bury any vegetative trash on any of the public streets, road right-of-way, highways, bridges, lanes, thoroughfares, waters, canals, or lots less than ten acres in size within the county.



wa County, Board of County Commissioners **Department of Growth Management** 10 SW 2nd Ave., Galnesville, FI 32601 Tel. 352.374.5249, Fax. 352.338.3224 http://growth-management.alachua.il.us

Submit Application to: Building Division

Tel. 352.374.5243 Fax. 352.491.4510

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553,842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below. You can find product approval numbers at www.floridabuilding.org. First select "Product Approval". "Find a Product". Then select a category (product), select a manufacturer, and then search. Please include the mfg's installation instructions in your package.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	PLAS PED		15215,1
B. SLIDING			
C. SECTIONAL			
D. ROLL UP			
E, AUTOMATIC			
F. OTHER	A designate designation of the first state of the state o		
2. WINDOWS			
A. SINGLE HUNG	YKK		12878.
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. DOUBLE HUNG			
E. FIXED			
F. AWNING			
G. PASS THROUGH			
H. PROJECTED			
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
3. ROOFING PRODUCTS			±
A. ASPHALT SHINGLES	TAMKO		1956 R12
B. UNDERLAYMENTS			
C. ROOFING FASTENERS			
D. NON-STRUCTURAL METAL			
ROOFING			
E. WOOD SHINGLES & SHAKES			
F. ROOFING TILES			
G. ROOFING INSULATION			
H. WATERPROOFING			
I. BUILT-UP ROOFING ROOF SYSTEMS			
J. ROOFING SLATE			
K. LIQUID APPLIED ROOF			
SYSTEMS			
L. ROOF TILE ADHESIVE			38
M. SPRAY APPLIED POLYURETHANE			
ROOF			
N. OTHER			
4. SKYLIGHTS			
5. NEW EXTERIOR ENVELOPE PRODUCTS The products listed below did not demonstrate			

product was tested and certified to comply with, 3) copy of the applicable manufacturer's installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection. Si

gnature of Applicant	Date _//	7/	1	9
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following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the