

COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015 AND THE NATIONAL ELECTRICAL 2011 EFFECTIVE 1 JULY 2015

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2014 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 1 JULY 2015. NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015. 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.

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 7/1/15

Total (Sq. Ft.) under roof

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall

GENERAL REQUIREMENTS:

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

be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

1,100

Condition space (Sq. Ft.)

Items to Include-Each Box shall be

Circled as

Applicable

No

HIIIIII

N/A

Yes

ШИИП

* includes covered ground floor area and main floor

2,275*

4 Dimensions of lot or parcel of land 5 Dimensions of all building set backs 6 Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements. 7 Provide a full legal description of property. Wind-load Engineering Summary, calculations and any details are required. GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL Fach Box sh Circled a Applicable wind speed (3-second gust), miles per hour Wind exposure – if more than one wind exposure 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. Elevations Drawing including:	all be
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cladding materials not specifally designed by the registered design professional. Elevations Drawing including:	
Elevations Drawing including:	
14 All side views of the structure	
15 Roof pitch	
16 Overhang dimensions and detail with attic ventilation No attic ventilation	
17 Location, size and height above roof of chimneys	V.
18 Location and size of skylights with Florida Product Approval	V
18 Number of stories Two	
20A Building height from the established grade to the roofs highest peak	

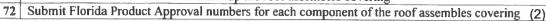
	Dor Plan including: Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck,		T	T
0	balconies	V _		
Ī	Raised floor surfaces located more than 30 inches above the floor or grade	V _		
2	All exterior and interior shear walls indicated	V	<u> </u>	
3	Shear wall opening shown (Windows, Doors and Garage doors)			
ļ	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	_		1
	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 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.	\		
<u> </u>	Safety glazing of glass where needed		-	-
_	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth		 	
)	(see chapter 10 and chapter 24 of FBCR)			-
7	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	V _		
	Identify accessibility of bathroom (see FBCR SECTION 320) All interior doors 32" leaf	V	†	
		Lucii	DON SI	Idii UC
_		C	Circled pplical	
В	CR 403: Foundation Plans	A	ircled pplical	as ole
_	CR 403: Foundation Plans Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	C	ircled pplical	as ole
I	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size	A	ircled pplical	as ole
_	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing. All posts and/or column footing including size and reinforcing Any special support required by soil analysis such as piling.	YES	ircled pplical	as ole
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BB	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing. All posts and/or column footing including size and reinforcing Any special support required by soil analysis such as piling. Assumed load-bearing valve of soil 2,500 Pound Per Square Foot See Cal-Tech Report 03/28/14 Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure 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 CR 506: CONCRETE SLAB ON GRADE Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed) Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports CR 318: PROTECTION AGAINST TERMITES Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides See specification notes	YES	ircled pplical	as ole

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

Flo	oor Framing System: First and/or second story			
	Floor truss package shall including layout and details, signed and sealed by Florida Registered	-/		
39	Professional Engineer required by specification notes	•		
	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,	//		
40	stem walls and/or priers	Y,		
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers	V,		
42	Attachment of joist to girder	V		
43	Wind load requirements where applicable			
44	Show required under-floor crawl space			V
45	Show required amount of ventilation opening for under-floor spaces			V .
46	Show required covering of ventilation opening			V
47	Show the required access opening to access to under-floor spaces			
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &			
48	intermediate of the areas structural panel sheathing			
49	Show Draftstopping, Fire caulking and Fire blocking			V.
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6			V
51	Provide live and dead load rating of floor framing systems (psf). See specification notes	1		
	•			
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION			
			to Inclu	
	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Box sha	
	APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		ircled as	
			pplicabl	
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	V ,		
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	V		
	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural			
54	members, showing fastener schedule attachment on the edges & intermediate of the areas structural	-		
i	panel sheathing	•		}
	Show all required connectors with a max uplift rating and required number of connectors and			†
55	oc spacing for continuous connection of structural walls to foundation and roof trusses or	-		
- 1	rafter systems	•		
	Show sizes, type, span lengths and required number of support jack studs, king studs for shear		 	
56	wall opening and girder or header per FBCB 2308.9.5	V _		
57	Indicate where pressure treated wood will be placed	V	1	†
	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural		1	†
58	panel sheathing edges & intermediate areas	V		_
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail			
	<u> </u>			1 4
FB	SCR :ROOF SYSTEMS:			
60	Truss design drawing shall meet section FBCR 802.1.7.1 Wood trusses	1	1	1
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer (1)		-	-
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters		 	
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details		-	- //
64	Provide dead load rating of trusses	1000		Y/
04			l .	IV
FF	(1) required by specification (SCR 802:Conventional Roof Framing Layout	notes		
			1	
65	Rafter and ridge beams sizes, span, species and spacing		-	V
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating		-	1
67	Valley framing and support details		 	V
68	Provide dead load rating of rafter system			
FR	CR 803 ROOF SHEATHING			
69	Include all materials which will make up the roof decking, identification of structural panel		1	Γ
-	sheathing, grade, thickness	~	1	
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	V	-	
. 4 1	panel shearing on the edges of intermediate areas			

ROOF ASSEMBLIES FRC Chapter 9

71 Include all materials which will make up the roof assembles covering





(2) by general contractor and its trade contractors

FBCR Energy Conservation R.401

Residential construction shall comply with this code by using the following compliance methods in the Residential buildings compliance methods. Two of the required forms are to be submitted, R 402-2014 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form R 402-2014, 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.

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		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure	V		
74	Attic space	-		V
75	Exterior wall cavity	V		
76	Crawl space			V
H	AC information			
77	Submit two copies of a Manual J sizing equipment or equivalent computation study (3)			
78	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or			
	20 cfm continuous required	V_		
79	Show clothes dryer route and total run of exhaust duct	V		
	(3) by mechanical contractor	Cide.		
Plu	imbing fixture layout snown			
80	All fixtures waste water lines shall be shown on the foundation plan	V_		
81	Show the location of water heater	\checkmark		
Pri	vate Potable Water			
82	Pump motor horse power 1 HP	1		
83	Reservoir pressure tank gallon capacity 81 gallons			
84	Rating of cycle stop valve if used			$\overline{}$
_	etrical layout shown including			
85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans			
86	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	V		
87	Show the location of smoke detectors & Carbon monoxide detectors	—		
88	Show service panel, sub-panel, location(s) and total ampere ratings	7		
89	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 disconnecting means for the utility company electrical service. Conductors used from the exterior 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.	✓		
	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	✓		
	Appliances and HVAC equipment and disconnects			
91	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. NEC 210.12A	✓		

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Items to Include-Each Box shall be Circled as Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	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	V		
	fee can be mailed.			
93	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	√		
94	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	V		
95	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	İ		V
96	Toilet facilities shall be provided for all construction sites	1		
97	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.			~
98	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 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	Floodwa by SRW AE appli	MD	ring
99	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.	V		
100	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00			
101	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 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 is required.			~
102	911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	✓		

<u>Disclosure Statement for Owner Builders</u> If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.

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 preformed.

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.

9

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

Notification:

When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the infonnation and approval numbers on the building components listed below. You can find product approval numbers at www.floridabuil.ding.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.

	Manufacturer	Product Description	Approval Number(s)
LEXTERIOR DOORS		/	
A. SWINGING	Pella Corporation	Inswing Entry Door	FL-14896.1
	Ceco Door Products	Swinging Hollow Metal Door and Frame Product-Severe Windstorm Resistant Door and Frame	FL-4553-R10
B. SLIDING	Pella Corporation	Designer Series Contemporary Non-Impact Sliding Door	FL-12442.1
C. SECTIONAL			
D. ROLL UP			
E. AUTOMATIC			
F. OTHER			
2.WINDOWS			
A. SINGLE HUNG		/	1 10 10 1 10 10 10
B. HORIZONTAL SLIDER	Pella Corporation	Impervia Sliding Window	FL-12604.7
C. CASEMENT	Pella Corporation	Designer Series Clad Non- Impact Vent Casement Window	FL-11865.3
D. DOUBLE HUNG		/	,
E. FIXED	Pella Corporation	Designer Series Clad Non-Impact Fixed Casement Window	FL-11877.3
F. AWNING	Pella Corporation	Designer Series Clad Non-Impact Awning Window	FL-11893.3
	Pella Corporation	Architect Series Clad Large Awning	FL-14345.4
	Pella Corporation	Proline Series - Clad Awning	FL-11498.1
G. PASS THROUGH			
H. PROJECTED			· ···
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
B. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			

NDERLAYMENTS	W. R. Grace	Grace Ice & Water Shield HT	FL-298.1
DN-STRUCTURAL METAL FING	Gulf Coast Supply & Manufacturing, LLC.	26 Ga. Gulf Lok	FL-11651.15
OOD SHINGLES &			
DOFING TILES			
OOFING SLATE			
QUIDAPPLIED ROOF EMS			
OF TILE ADHESIVE			
RAY APPLIED URETHANE ROOF			
HER			
ЭНТЅ			
KTERIOR ENVELOPE TS	Gulf Coast Supply & Manufacturing, LLC.	26 Ga Gulf Wave Roof Panel (siding application)	
	ON-STRUCTURAL METAL FING OOD SHINGLES & (ES) OOFING TILES OOFING SLATE QUIDAPPLIED ROOF EMS OF TILE ADHESIVE PRAY APPLIED URETHANE ROOF HER CHTS CTERIOR ENVELOPE	ON-STRUCTURAL METAL FING OOD SHINGLES & KES OOFING TILES OOFING SLATE QUIDAPPLIED ROOF EMS OF TILE ADHESIVE PRAY APPLIED URETHANE ROOF HER CHER CHER CHEROR ENVELOPE Gulf Coact Supply & Manufacturing, LLC. ON-STRUCTURAL METAL FING Gulf Coast Supply & Manufacturing, LLC. OOD SHINGLES & KES OOFING TILES OOFING SLATE QUIDAPPLIED ROOF EMS OF TILE ADHESIVE PRAY APPLIED URETHANE ROOF HER SHTS CTERIOR ENVELOPE Gulf Coast Supply & Manufacturing, LLC. 26 Ga. Gulf Lok 26 Ga. Gulf Lok Annufacturing, LLC. CTERIOR ENVELOPE Gulf Coast Supply & Manufacturing, LLC. CTERIOR ENVELOPE Gulf Coast Supply & Manufacturing, LLC. CTERIOR ENVELOPE Gulf Coast Supply & Manufacturing, LLC.	

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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Gilchrist River House(2) Street: 302 SW Riverside Ave City, State, Zip: Fort White, FL, 32038 Owner: David Gilchrist DesignLocation: FL, Gainesville		BuilderName: PremierBuilding Permit Office: Permit Number: Jurisdiction: ColumbiaCounty	
, , ,		9. Wall Types (1529.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 10. Ceiling Types (1134.0 sqft.) a. Cathedral/Single Assembly (Unvented) b. N/A c. N/A 11. Ducts a. Sup: Main, Ret: Main, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric Tankless b. Conservation features None 15. Credits	Insulation Area R=21.0 1529.00 ft² R= ft² R= ft² R= ft² Insulation Area R=38.0 1134.00 ft² R= ft² R= ft² R= ft² A ft² C 220 kBtu/hr Efficiency 18.8 SEER:15.00 kBtu/hr Efficiency 17.1 HSPF:8.40 Cap: 1 gallons EF: 0.920
Glass/Floor Area: 0.303	Total Proposed Modifier Total Baseline		PASS
I hereby certify that the plans and specificathis calculation are in compliance with the Code. PREPARED BY: DATE: 2/26/2016 I hereby certify that this building, as design with the Florida Energy Code. OWNER/AGENT: DATE:	Plorida Energy med, is in compliance	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:	DON'TY BUILD
- Compliance requires certification by	the air handler unit man	ufacturer that the air handler enclosure	dualifies as

Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.2.2.1.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4 11 and an envelope leakage test report in accordance with R402.4.1.2.

				PROJI	ECT							
Title: Building Type: Owner: # of Units: BuilderName: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Gilchrist River House User David Gilchrist 1 Premier Building Columbia County Single-family New (From Plans)	(2)	Bedrooms: Conditione Total Storie Worst Case Rotate Ang Cross Venti Whole Hou	s: e: le: lation:	1 1100 1 No 0			Address T Lot # Block/Sub PlatBook: Street: County: City, State	Division:	Columb Fort Wh	'Riversid	e Ave
		 		CLIMA	ATE							
√ De	signLocation	TMY Site	IEC Zor		esign Te 7.5 %	mp 2.5 %	Int Desig Winter		Heating Degree Da		esign D isture	aily Tem _l Range
FL	.,Gainesville FL_0	GAINESVILLE	_REGI 2	2	32	92	70	75	1305.5		51	Medium
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	1100	13750									
				SPAC	ES							
Number	Name	Area	Volume K	itchen	Occupa	nts	Bedrooms	Infil ID) Finish	ed	Cooled	Heat
1	Main	1100	13750	Yes	2		1	1	Yes		Yes	Yes
				FLOO	RS							
√ #	FloorType	Space			R-Value		Area			Tile	Wood	Carpet
1 Ra	ised Floor	Ма	in	•			1100 ft²	38		0	1	0
				ROO	F							
√ #	Туре	Materials	Roof Area	Gable Area		Roof Golor	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	
1	Gable or shed	Metal	1134 ft²	138 ft	² L	ight	0.6	No	0.9	No	0	14
				ATTI	С							
√ #	Туре	Ventila	tion	Vent Ratio	o (1 in)		Area	RBS	IRCC			
1	No attic	Unven	ted	0		1	100 ft²	N	N			
				CEILIN	NG							
V #	CeilingType		Space	R-Value)	Ar	ea	Framing	Frac	Tı	uss Type	9
1	Cathedral/SingleAsser	mbly(Unvented	l) Main	38		113	34 ft²	0.11			Wood	

FORM R405-2014

							WA	LLS							
V #	Omi		Adjace	nt Wall	Tuno	Space	Cavity R-Value	Width Et In		Height	Area	Sheathing		Solar	Below
1	SE		xterior		ne - Wood	Main	N=value	25.5	10		255.0 ft ²	R-value 0.45	Fraction 0.23	_Absor_ 0.75	_Grade ^c 0
2	NE	E	xterior	Fran	ne - Wood	Main	21	50.1	10)	501.0 ft²	0.45	0.23	0.75	0
3	SW	/ E	xterior	Fran	ne - Wood	Main	21	39.7	10)	397.0 ft²	0.45	0.23	0.75	0
4	NW	/ E	xterior	Fran	ne - Wood	Main	21	37.6	10)	376.0 ft²	0.45	0.23	0.75	0
						Orientation s		DOWS	nsed or	ientation					·
/			Wall			Onontations	iowi ii suic ci	itered, i Top	osed or	ientation.		rhang			
V	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC		Area	Depth	Separation	Int Shad	de :	Screenin
	1	SE	1	Vinyl	Low-E Double	Yes	0.3	0.19		20.1 ft ²	1.5 ft 0 in	2 ft 0 in	None		None
	2	NE	2	Vinyl	Low-EDouble	Yes	0.29	0.2		12.0 ft²	1.5 ft 0 in	1.25 ft 0 i	None		None
	3	NE	2	Vinyl	Low-EDouble	Yes	0.28	0.17		9.0 ft ²	1.5 ft 0 in	2 ft 0 in	None		None
	4	NE	2	Vinyl	Low-EDouble	Yes	0.29	0.2		12.0 ft ²	1.5 ft 0 in	2.5 ft 0 in	None		None
	5	SE	1	Vinyl	Low-EDouble	Yes	0.28	0.17		22.5 ft ²	1.5 ft 0 in	1.25 ft 0 i	None		None
	6	SE	1	Vinyl	Low-EDouble	Yes	0.28	0.17		7.0 ft ²	1.5 ft 0 in	2.5 ft 0 in	None		None
	7	SE	1	Vinyl	Low-EDouble	Yes	0.29	0.2		7.0 ft ²	1.5 ft 0 in	2.5 ft 0 in	None		None
	8	sw	3	Vinyl	Low-E Single	Yes	0.28	0.17		10.5 ft²	1.5 ft 0 in	2 ft 0 in	None		None
	9	sw	3	Vinyl	Low-EDouble	Yes	0.28	0.17		21.0 ft ²	1.5 ft 0 in	8 ft 0 in	None		None
	10	NW	4	Vinyl	Low-EDouble	Yes	0.28	0.19		56.0 ft²	1.5 ft 0 in	8 ft 0 in	None		None
	11	NW	4	Vinyl	Low-EDouble	Yes	0.29	0.19		32.0 ft ²	1.5 ft 0 in	2 ft 0 in	None		None
	12	SW	3	Vinyl	Low-EDouble	Yes	0.28	0.19		56.0 ft ²	1.5 ft 0 in	8 ft 0 in	None		None
	13	SW	3	Vinyl	Low-EDouble	Yes	0.29	0.19		32.0 ft ²	1.5 ft 0 in	2 ft 0 in	None		None
	14	NW	4	Vinyl	Low-E Double	Yes	0.28	0.17		36.0 ft²	1.5 ft 0 in	8 ft 0 in	None		None
							INFILT	RATION							
	Scope		М	ethod		SLA	CFM 50	ELA	Eql	LA	ACH	ACH	ł 50		
Wh	olehous	se	Propo	sed ACI	H(50) .0	000397	1145.8	62.9	118	3.3	.3058	5	5		
							HEATING	SYSTE	M						
V	#	Sys	tem Ty	ре	,	Subtype	·	Effi	iciency	(Capacity		В	lock	Ducts
	1	Ele	ctric He	eat Pum	р :	Split		HS	PF:8.4	17	'.1 kBtu/hr		1		sys#1
							COOLING	SYSTE	М						
$\sqrt{}$	#	Sys	temTy	ре	(Subtype		Effic	iency	Capac	ity A	irFlow S	HR B	ock	Ducts
	1	Cer	tral Ur	it		Split		SEE	R: 15	18.8 kBt	u/hr 56	4 cfm 0	.75 1	1	sys#1

					HOT W	ATER SY	STEM							
	#	System Type	SubType	Locatio	n EF	Са	р	Use	SetPnt		Co	nservatio	n	
	1	Electric	Tankless	Main	0.92	1 g	al	40 gal	120 deg			None		
				S	OLAR HO	T WATER	SYST	EM						
FSEC Cert # Company			ame		System	Model#	С	ollector Model		ollector Area	Stor		FEF	-
	None	None								ft²				
						DUCTS								
\checkmark	#	Sup Location R	pply -Value Area	I Locatio	Return on Area	Leaka	деТуре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC# Cool
	1	Main	6 220 ft²	Main	55 ft²	Defaultl	eakage	Main	(Default)	c(Default)	С		1	1
					TEM	PERATUR	RES		,					
Program	ableThem	nostat: Y			Ceiling Fans	3:			·	- -				-
Cooling Heating Venting	[] Jar [X] Jar [] Jar	X Feb	[] Mar [X] Mar [X] Mar	Apr Apr X Apr	[] May [] May [] May	[X] Jun [] Jun [] Jun	lut [X] lut []	[X] Aug [] Aug [] Aug	[X] Se Se Se		Oct Oct Oct	Nov X Nov X Nov	×	Dec Dec Dec
Thermosta	tSchedule	e: HERS 200	06 Reference				Н	ours						
ScheduleT	уре		1	2 3	3 4	5	6	7	8	9	10	11	1	12
Cooling (W	/D)	AM PM	78 80	78 73 80 73	8 78 8 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8	30 78
Cooling (W	/EH)	AM PM	78 78	78 78 78 78	8 78 8 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7	78 78
Heating (W	/D)	AM PM	66 68	66 66 68 66	6 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	88 86
Heating (W	Heating (WEH)		66 68	66 66 68 66	6 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	88 66
				N	IECHANIC	CAL VENT	TILATIO	ON						
Гуре		S	upply CFM	Exhaust C	FM Fan Wa	atts HRV	Heatin	gSystem		Run Time	Co	olingSyst	em	
Runtime Ve	ent		21.1	0		0		1 -)		%	1 - Ce	ntral Unit		

Residential System Sizing Calculation

Summary

David Gilchrist 302 SW Riverside Ave Fort White, FL 32038 Project Title: Gilchrist River House(2)

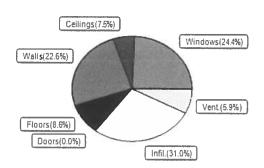
2/26/2016

Location for weather data: Gainesville Reg, FL - Defaults: Latitude(30) Altitude(164 ft.) Temp Range(M)												
Humidity data: Interior RH (50%) Outdoor wet bulb (76F) Humidity difference(47gr.)												
Winter design temperature(MJ8 9	9%) 33	F	Summer design temperature(MJ8	99%) 92	F							
Winter setpoint	70	F	Summer setpoint	75	F							
Winter temperature difference	37	F	Summer temperature difference	17	F							
Total heating load calculation	14369	Btuh	Total cooling load calculation	17659	Btuh							
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh							
Total (Electric Heat Pump)	119.0	17100	Sensible (SHR = 0.75)	100.7	14100							
Heat Pump + Auxiliary(0.0kW)	119.0	17100	Latent	128.4	4700							
			Total (Electric Heat Pump)	106.5	18800							

WINTER CALCULATIONS

Winter Heating Load (for 1100 sqft)

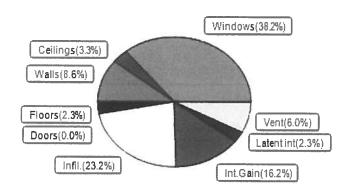
Load component			Load	
Window total	333	sqft	3501	Btuh
Wall total	1196	sqft	3240	Btuh
Door total	0	sqft	1	Btuh
Ceiling total	1134	sqft	1079	Btuh
Floor total	1100	sqft	1235	Btuh
Infiltration	110	cfm	4459	Btuh
Duct loss			0	Btuh
Subtotal			13515	Btuh
Ventilation	21	cfm	854	Btuh
TOTAL HEAT LOSS			14369	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1100 sqft)

Load component			Load	
Window total	333	sqft	6739	Btuh
Wall total	1196	sqft	1515	Btuh
Door total	0	sqft	1	Btuh
Ceiling total	1134	sqft	577	Btuh
Floor total			401	Btuh
Infiltration	81	cfm	1514	Btuh
Internal gain			2860	Btuh
Duct gain			0	Btuh
Sens. Ventilation	21	cfm	393	Btuh
Blower Load			0	Btuh
Total sensible gain			13999	Btuh
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)	2588	Btuh		
Latent gain(ventilation)	671	Btuh		
Latent gain(internal/occupants/other)			400	Btuh
Total latent gain			3659	Btuh
TOTAL HEAT GAIN			17659	Btuh





April 21, 2016 Project No. 16-1376.54G

Mr. Bobby Powell Alcon Construction Company, Inc. P.O. Box 5145 Gainesville, FL 32627

Reference:

Prop. Column Pad, Three Rivers Estates, 302 SW Riverside Ave., Fort White, FL

Site Observation

Dear Mr. Powell:

As requested, Gco-Technologies, Inc. (Gco-Tech) visited the project site and observed the underlying soils of the proposed column pad located at the above referenced site. Representative samples were obtained from the borings and returned to our laboratory for visual and laboratory classification.

The foundation system may utilize a monolithic thickened edge slab and finish site grades should be selected so that the bottom of the foundation is at least two (2) feet above the underlying unsuitable clayey soils or until competent limestone is encountered. Excavate the clayey soils to create the minimum buffer between the foundation and floor slabs and the top of the clayey soils. Excavation should extend a minimum of two (2) feet beyond each side of the footing.

The depth of excavation should be controlled so that a "bathtub effect" that will trap water is not created. The bottom of the undercut should be graded to drain to a positive gravity outfall. If it is not feasible to have a positive gravity outfall, an underdrain should be placed in the bottom of the excavation to drain stormwater that may accumulate in the excavation.

We wish to emphasize that the excavation and replacement of the underlying clay soils from beneath the building is not a guarantee that the deeper clays will not cause foundation movements. However, the risk is reduced significantly.

Gco-Tech appreciates the opportunity to provide our services for this project. Should you have any questions regarding the contents of this report or if we may be of further assistance, please do not hesitate to contact the undersigned.

Sincerely.

Craig A. Hampy, E.I.

Staff Engineer

CAH/DAC



CBC-1258773

Transmittal

Date: 04/14/16

To: Troy Crews

Job Name: Gilchrist River House - Permit # - 33873

DEGEIVE APR 1 4 2016 By

Subject: Gilchrist River House – 2 Architect's plan page Revisions – Page A105 and A106

Troy:

I have attached the copies of 2 pages of the plans sent to us by the Architect.

Let me know I will need to do to have you approve these, and get updated with the permit set at the job site.

Thanks.

Rich Nickelson Project Manager

Isaac Nickelson Owner/President Premier Building

496 SW Ring Ct. Suite A-9, Lake City, FL 32025

Phone: (386) 628-0823

Premier Building, LLC Email: Info@PremierBuildingFL.com 4720 Salisbury Road Suite 213, Jacksonville, FL 32256 Phone: (904) 222-6170

Serving: Lake City, Gainesville, Jacksonville

#33873





P.O. Box 1625, Lake City, FL 32056-1625 450 SR. 13 N.• Suite 206-308 • Jacksonville, FL 32259 Lake City • (386) 755-3633 Fax • (386) 752-5456

Jacksonville • (904) 381-8901

JOB NO.:

DATE TESTED:

Fax • (904) 381-8902

REPORT OF IN-PLACE DENSITY TEST

ASTM METHOD: (D-2922) Nuc	lear	(D	-2937) Drive	e Cylinder		Other
PROJECT:						
CLIENT:						
GENERAL CONTRACTOR:	EARTHW	ORK CON	TRACTOR:_	<u> </u>		
SOIL USE (SEE NOTE):	SPECIFIC	ATION RE	EQUIREMEN	ITS:	17/	
TECHNICIAN:						
MODIFIED (ASTM D-1557):						a removed
TEST TEST LOCATION	TEST: DEPTH ELEV. LIFT		WET DENS. LBS.CU.FT.	DRY DENS. LBS.CU.FT.		% MAX. DENS.
1 Ha Nime EW SC		4	AND P	1327	7) 4	9,
200 m 2 45NSL	1 =	1	1,4 7	1 7		<u> </u>
310 Man 13 F &G NI	12	L. H.	17.2	103.6	41.4	99
5	a maleuta					
REMARKS:						
PROCTOR NO. SOIL DESCRIPTION			PROCTO	R VALUE	<u>0</u> P1	MOIST.
			- 0/			
						Neg-

NOTE: 1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Stabilized Subgrade 5. Embankment 6. Subgrade/Natural Soil 7. Other The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test location and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

GEO-TECH, INC.

Engineering Consultants in Geotechnical • Environmental • Construction Materials Testing

FIELD DENSITY WORKSHEET

	ELD DE	14211 A	WORK	SHEE	Т			
CLIENT ALCON					DATE	5.0	7-16	
PROJECT NAME Res 300 CEARTH CONTRACTOR COMPACTION REQUIREMENT (0)	SWRi	VRYS:	ide.	Ave	PERM			
EARTH CONTRACTOR	F+	, wh	140		TECT	-D DV	< 1	
COMPACTION REQUIREMENT (%)	95	o s	tandard	Proctor	15911	ED BA	2	
TOTAL ON-SITE TIME	_1/	© M	lodified F	roctor	FIELD	CONTACT		
TOTAL ON-SITE TIME					MULTO	FDOM		
☐ Limerock ☐ Subgrade ☐ Pipe Backfill	☐ Building	Pad 🗵	Building	g Footing	g 🖸 Otl	her		
	LAB PI	ROCTOR	TEST	DDODE		WET	DRY	-
TEST LOCATION	DENS.	ОМС	DEPTH	PROBE DEPTH	MOIST.	DENSITY (PCF)	DENSITY (PCF)	% COMP.
	10.6	11.6	F/6	1210				
South Column Footing					15	115,3	1102	0-0
					(0.)	117,0	108,0	97.7
	+	- 1						
MARKS						===-		
						* Density	/ failed to r	neet
						minimu	m project	
						require		
						density	indicates n requireme	ninimum
					==1	obtaine	d.	iii was
						() Client is		
1010 0 =						unsatisf	actory test	results.

New Construction Subterranean Termite Service Record

#33873

OMB Approval No. 2502-0525 (exp. 04/30/2015)

This form is completed by the licensed Pest Control Company

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information iis required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential, therefore, no assurance of confidentiality is provided.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control company	and builder, unless stated otherwise.
Section 1: General Information (Pest Control Company Inform	mation)
Company Name: Aspen Pest Control	
Company Address P.O. Box 1795	City Lake City State Florida zip 32056
	Company Phone No. (386) 755-3611
Section 2: Builder Information	
Company Name	Phone No.
Section 3: Property Information	2 8 %
Location of Structure (s) Treated (Street Address or Legal De	Description, City, State and Zip)
Section 4: Service Information	
Date(s) of Service(s)	
Type of Construction (More than one box may be checked)	
B. Wood Applied Liquid Termiticide Brand Name of Termiticide: Approx. Dilution (%): C. Bait system Installed	Mix Applied: Treatment completed on exterior: Yes No EPA Registration No s Mix Applied: tration No Number of Stations installed sallation information (required)
Attachments (List)	
Name of Applicator(s)	Certification No. (if required by State law) _JF104376
	ct label and state requirements. All materials and methods used comply with state and feder
Authorized Signature	Date
	Date



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COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in

accordance with the Columbia County Building Code.

Parcel Number 23-6S-15-00533-009 Building permit No. 000033873

Permit Holder ISAAC NICKELSON Use Classification SFD, UTILITY Fire: Waste: 144.81 137.52

Total: 282.33

Location: 302 SW RIVERSIDE AVE, FORT WHITE, FL 32038

Date: 01/12/2017

Owner of Building DAVID & HILDA GILCHRIST

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)