

Columbia County New Building Permit Application

RES.
CHECKLIST

For Office Use Only

Application # 1806-41 Date Received 6/14 By ITW Permit # 2626136882
Zoning Official SN Date 6-21-18 Flood Zone X Land Use RLD Zoning PRD
FEMA Map # _____ Elevation _____ MFE 116.5 River _____ Plans Examiner T.C. Date 6-21-18

Comments

- ☒ NOC ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☒ Well letter ☒ 911 Sheet ☐ Parent Parcel # _____
☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter
☐ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☐ App Fee Paid ☐ Sub VF Form

City

OR City Water ☒

Fax _____

Applicant (Who will sign/pickup the permit) LORA DAVID Phone 365-5671Address 333 SW ROSEMARY DR LAKE CITY, FL 32024Owners Name THE PRESERVAT LAUREL LAKES, INC Phone 755-3117911 Address 117 SW BELLFLOWER DR. LAKE CITY, FL 32024Contractors Name AARON SIMQUE HOMES, INC. Phone 867-5395Address 333 SW ROSEMARY DR. LAKE CITY, FL 32024Contractor Email AARON@AARONSIMQUE.COM ***Include to get updates on this job.

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address RIDGEPOINT DESIGN, INC.Mortgage Lenders Name & Address RENANSANT BANK, P.O. BOX 3880 VALDOSTA, GA 316Circle the correct power company ☒ FL Power & Light ☐ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke EnergyProperty ID Number 03-4S-16-02731-011 Estimated Construction Cost 280KSubdivision Name THE PRESERVE AT LAUREL LAKES Lot 11 Block _____ Unit 1 Phase _____Driving Directions from a Major Road HWY 90 W, TURN LEFT ONTO 252B, THEN RIGHT ONTO ROSEMARY DR. LOT IS ON THE CORNER OF ROSEMARY AND BELLFLOWER ON THE LEFT.Construction of SFR Commercial OR X ResidentialProposed Use/Occupancy SFR Number of Existing Dwellings on Property 0

Is the Building Fire Sprinkled? _____ If Yes, blueprints included _____ Or Explain _____

Circle Proposed ☐ Culvert Permit or ☒ Culvert Waiver or ☐ D.O.T. Permit or ☐ Have an Existing DriveActual Distance of Structure from Property Lines - Front 25.5 Side 21.6 Side 37.4 Rear 106.7Number of Stories 2 Heated Floor Area 3119 Total Floor Area 4334 Acreage .41

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.)

spoke w/ Lora in person 6-21-18

Columbia County Building Permit Application

CODE: Florida Building Code 2014 and the 2011 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

TIME LIMITATIONS 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 pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

Scott Stewart

Print Owners Name

[Signature]

Owners Signature

****Property owners must sign here before any permit will be issued.**

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Contractor's Signature

Contractor's License Number

RR 282811879

Columbia County

Competency Card Number

000713

Affirmed under penalty of perjury to by the Contractor and subscribed before me this *24* day of *June* 20*18*

Personally Known ☒ or Produced Identification ☐

State of Florida Notary Signature (For the Contractor)





July 18, 2018

Aaron Simque Homes
Lake City, FL 32025

Subject: Permit # 36882 - Lot 11, Preserve at Laurel Lake - Elevation Letter

Dear Aaron:

Daniel & Gore, LLC has performed a vertical survey on Lot 11, Preserve at Laurel Lake, Unit 1, Columbia County, Florida from a benchmark being a 60d nail at the common lot line between Lots 8 & 9 (elevation – 116.12', NGVD 1929) and have determined the following:

- The Subdivision plat requires the minimum finish floor elevation to be 116.5'.
- The top of the concrete foundation slab is at 116.6', being 0.1' above the minimum finish floor requirement.

If you have any questions, please call me.

Sincerely,

Scott Daniel, PSM

SCANNED

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #

1806-41

JOB NAME

TPALL

LOT 11- Unit 1

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

NOTE: It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.

Use website to confirm licenses: <http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx>

NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

Violations will result in stop work orders and/or fines.

ELECTRICAL <input checked="" type="checkbox"/>	Print Name <u>RYAN BEVILLE</u> Company Name: <u>RBT ELECTRICAL Contracting</u> License #: <u>EC13004236</u> Phone #: <u>386 339 0360</u>	Signature <u>[Signature]</u>	Need Uc Uab W/C EX DE
MECHANICAL/A/C <input type="checkbox"/>	Print Name <u>Bryan Bounds</u> Company Name: <u>Bounds Heating & Cooling</u> License #: <u>CAC1815198</u> Phone #: <u>352-472-2761</u>	Signature <u>[Signature]</u>	Need Uc Uab W/C EX DE
PLUMBING/GAS <input checked="" type="checkbox"/>	Print Name <u>MARK GANSKOP</u> Company Name: <u>Express Plumbing</u> License #: <u>CFL1428040</u> Phone #: <u>386-867-0269</u>	Signature <u>[Signature]</u>	Need Uc Uab W/C EX DE
ROOFING <input checked="" type="checkbox"/>	Print Name <u>Dana Johnson</u> Company Name: <u>MAC Johnson Roofing</u> License #: <u>CCC1325497</u> Phone #:	Signature <u>[Signature]</u>	Need Uc Uab W/C EX DE
SHEET METAL <input type="checkbox"/>	Print Name Company Name: License #:	Signature Phone #:	Need Uc Uab W/C EX DE
FIRE SYSTEM/SPRINKLER <input type="checkbox"/>	Print Name Company Name: License #:	Signature Phone #:	Need Uc Uab W/C EX DE
SOLAR <input type="checkbox"/>	Print Name Company Name: License #:	Signature Phone #:	Need Uc Uab W/C EX DE
STATE SPECIALTY <input type="checkbox"/>	Print Name Company Name: License #:	Signature Phone #:	Need Uc Uab W/C EX DE

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # _____

JOB NAME _____

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Violations will result in stop work orders and/or fines.

ELECTRICAL <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need Lic Liab W/C EX DE
MECHANICAL A/C CC# 1762	Print Name <u>Steve Brisbois</u> Signature <u>[Signature]</u> Company Name: <u>Arctic A/C Services Heating & Air</u> License #: <u>CAC 1813182</u> Phone #: <u>386-688-7707</u>	Need Lic Liab W/C EX DE
PLUMBING/ GAS <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need Lic Liab W/C EX DE
ROOFING <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need Lic Liab W/C EX DE
SHEET METAL <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need Lic Liab W/C EX DE
FIRE SYSTEM/ SPRINKLER <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need Lic Liab W/C EX DE
SOLAR <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need Lic Liab W/C EX DE
STATE SPECIALTY <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need Lic Liab W/C EX DE

June 4, 2018

The Preserve at Laurel Lake, Inc.
426 SW Commerce Dr.
Suite 130
Lake City, FL 32025

RE: Service Availability Letter

To Whom It May Concern,

Thank you for your inquiry regarding the availability of city utilities. The City of Lake City has potable water, sanitary sewer and natural gas available to tap into at the following locations:

✓ 117 SW Bellflower Dr., Parcel 03-4S-16-02731-011
414 SW Bellflower Dr., Parcel 03-4S-16-02731-049
392 SW Bellflower Dr., Parcel 03-4S-16-02731-050
370 SW Bellflower Dr., Parcel 03-4S-16-02731-051
292 SW Silver Palm Dr., Parcel 03-4S-16-02731-068
687 SW Rosemary Dr., Parcel 03-4S-16-02731-099
Lot 122, Parcel 03-4S-16-02731-122

This availability response does not represent the City of Lake City's commitment for or reservation of capacity. In accordance with the City of Lake City's policies and procedures, commitment to serve is made only upon the City of Lake City's approval of your application for service and receipt of your payment of all applicable fees.

If you have any questions, please feel free to contact me at (386) 719-5786 during our normal business hours of 8:00 am to 4:30 pm, Monday through Friday. I will be happy to assist you.

Sincerely,

Shasta M. Pelham
Shasta M. Pelham
Utility Service Coordinator

Prepared by and return to
Cornerstone Homes of Lake City
PO Box 1208
Lake City, FL 32056

Folio Number: 03-4S-16-02731-011, 03-4S-16-02731-049, 03-4S-16-02731-050, 03-4S-16-02731-099, 03-4S-16-02731-122

THIS WARRANTY DEED made this 10 day of May, 2018 by Cornerstone Homes of Lake City, Inc., a Florida Corporation, whose post office address is PO Box 1208, Lake City, FL 32056, hereinafter called the Grantor, to The Preserve at Laurel Lake, Inc., a Florida Corporation, whose post office address is PO Box 1208, Lake City, FL 32056 hereinafter called the Grantee.

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations.)

WITNESSETH: That the grantor, for and in consideration of the sum of TEN AND 00/100'S (\$10.00) Dollars, and other variable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situated in Columbia County, Florida, viz:

LOT 11, 49, 50, 99, and 122, PRESERVE AT LAUREL LAKE UNIT 1, as per the plat thereof recorded in Plat Book 9, Page 19, of the Public Records of Columbia County, Florida

SUBJECT TO restrictions, reservations, easements and limitations of record, if any, provided that this shall not serve to reimpose same, zoning ordinances, and taxes for the current year and subsequent years

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining

TO HAVE AND TO HOLD, the same in fee simple forever

AND the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple, that the grantor has good right and lawful authority to sell and convey said land; and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances, except as mentioned above.

IN WITNESS WHEREOF, the said grantor has signed and sealed the day and year first above written.

Signed, sealed and delivered in the presence of:

Witness
Print Name Gracie Morton

Witness
Print Name Ayla Hemmerway

Cornerstone Homes of Lake City, Inc.
Scott Stewart, President

STATE OF: FLORIDA
COUNTY OF: COLUMBIA

The foregoing instrument was acknowledged before me this 10 day of May, 2018 by Scott Stewart, as President of Cornerstone Homes of Lake City, Inc., A Florida Corporation, who is/are personally known to me or has/have produced as identification and who did not take an oath.

Notary Public

Printed Notary Name





Florida Profit Corporation

Filing Information

FEI/EIN Number 47-2334288

State FL

Principal Address

Mailing Address

Registered Agent Name & Address

Officer/Director Detail

Title President

Title VP

Simque, Aaron
333 SW Rosemary Drive
Lake City, FL 32024

		SYSADM.RPT			
LOT40	BELLFLOWER	605	SW BELLFLOWER	DR	32024
LOT41	BELLFLOWER	619	SW BELLFLOWER	DR	32024
LOT42	BELLFLOWER	635	SW BELLFLOWER	DR	32024
LOT43	BELLFLOWER	651	SW BELLFLOWER	DR	32024
LOT44	BELLFLOWER	667	SW BELLFLOWER	DR	32024
LOT45	BELLFLOWER	662	SW BELLFLOWER	DR	32024
LOT46	BELLFLOWER	630	SW BELLFLOWER	DR	32024
LOT47	BELLFLOWER	614	SW BELLFLOWER	DR	32024
LOT48	BELLFLOWER	588	SW BELLFLOWER	DR	32024
MIN	LOTUS	100	SW LOTUS	GLN	32024
MAX	LOTUS	150	SW LOTUS	GLN	32024
LOT15	LOTUS	129	SW LOTUS	GLN	32024
LOT16	LOTUS	147	SW LOTUS	GLN	32024
LOT17	LOTUS	148	SW LOTUS	GLN	32024
LOT18	LOTUS	140	SW LOTUS	GLN	32024
LOT19	LOTUS	118	SW LOTUS	GLN	32024
MIN	MAPLE	100	SW MAPLE	PL	32024
MAX	MAPLE	236	SW MAPLE	PL	32024
LOT129	MAPLE	111	SW MAPLE	PL	32024
LOT128	MAPLE	127	SW MAPLE	PL	32024
LOT127	MAPLE	143	SW MAPLE	PL	32024
LOT126	MAPLE	161	SW MAPLE	PL	32024
LOT125	MAPLE	177	SW MAPLE	PL	32024
LOT124	MAPLE	195	SW MAPLE	PL	32024
LOT123	MAPLE	217	SW MAPLE	PL	32024
LOT130	MAPLE	118	SW MAPLE	PL	32024
LOT131	MAPLE	138	SW MAPLE	PL	32024
LOT132	MAPLE	152	SW MAPLE	PL	32024
LOT133	MAPLE	164	SW MAPLE	PL	32024
LOT134	MAPLE	180	SW MAPLE	PL	32024
LOT135	MAPLE	192	SW MAPLE	PL	32024
LOT136	MAPLE	208	SW MAPLE	PL	32024
LOT137	MAPLE	224	SW MAPLE	PL	32024
MAX	ROSEMARY	814	SW ROSEMARY	DR	32024
T8	ROSEMARY	400	SW ROSEMARY	DR	32024
T8	ROSEMARY	606	SW ROSEMARY	DR	32024
LOT1	ROSEMARY	370	SW ROSEMARY	DR	32024
LOT2	ROSEMARY	386	SW ROSEMARY	DR	32024
LOT3	ROSEMARY	414	SW ROSEMARY	DR	32024
LOT4	ROSEMARY	432	SW ROSEMARY	DR	32024
LOT5	ROSEMARY	448	SW ROSEMARY	DR	32024
LOT6	ROSEMARY	466	SW ROSEMARY	DR	32024
LOT7	ROSEMARY	482	SW ROSEMARY	DR	32024
LOT8	ROSEMARY	498	SW ROSEMARY	DR	32024
LOT9	ROSEMARY	514	SW ROSEMARY	DR	32024
LOT10	ROSEMARY	530	SW ROSEMARY	DR	32024
LOT11	ROSEMARY	590	SW ROSEMARY	DR	32024

OLDNUM	OLDSTR	NEWNUM	NE	NEWSTR	NEWT	NEWZI
LOT117	ROSEMARY	616	SW	ROSEMARY	DR	32024
LOT118	ROSEMARY	630	SW	ROSEMARY	DR	32024
LOT119	ROSEMARY	642	SW	ROSEMARY	DR	32024
LOT120	ROSEMARY	656	SW	ROSEMARY	DR	32024
LOT121	ROSEMARY	668	SW	ROSEMARY	DR	32024
LOT123	ROSEMARY	730	SW	ROSEMARY	DR	32024
LOT137	ROSEMARY	766	SW	ROSEMARY	DR	32024
LOT138	ROSEMARY	782	SW	ROSEMARY	DR	32024

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

03-4S-16-02731-011

Clerk's Office Stamp

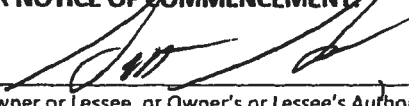
Inst: 201812012954 Date: 06/25/2018 Time: 12:25PM
Page 1 of 1 B: 1363 P: 265, P. DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy Clerk

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): LOT 11, UNIT 1, PRESERVE AT LAUREL LAKES
a) Street (job) Address: 117 SW BELLFLOWER DR, LAKE CITY, FL 32024
2. General description of improvements: SFR
3. Owner Information or Lessee information if the Lessee contracted for the improvements:
a) Name and address: THE PRESERVE AT LAUREL LAKES, INC. 426 SW COMMERCE DR. STE 130, LAKE CITY, FL 32024
b) Name and address of fee simple titleholder (if other than owner)
c) Interest in property OWNER
4. Contractor Information
a) Name and address: AARON SIMQUE HOMES, INC.
b) Telephone No.: 386-887-5395
5. Surety Information (if applicable, a copy of the payment bond is attached):
a) Name and address:
b) Amount of Bond:
c) Telephone No.:
6. Lender
a) Name and address: RENASANT BANK, P.O. BOX 3880, VALDOSTA, GA 31604
b) Phone No. 229-293-8593
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
a) Name and address:
b) Telephone No.:
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
a) Name: SCOTT STEWART OF THE PRESERVE AT LAUREL LAKES, INC.
b) Telephone No.: 386-766-0767
9. Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified):

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. 
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager
Scott Stewart, President
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 18 day of June, 2018, by:

Scott Stewart as President for The Preserve at Laurel Lakes, Inc.
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known OR Produced Identification Type

Notary Signature

Notary Stamp or Seal:





COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015 AND THE NATIONAL ELECTRICAL CODE 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 12/2016**

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

Items to Include-
Each Box shall be
Marked as
Applicable

		Select From the Dropdown
1	Two (2) complete sets of plans containing the following:	YES <input type="text"/>
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	YES <input type="text"/>
3	Condition space (Sq. Ft.) <input type="text"/> Total (Sq. Ft.) under roof <input type="text"/>	YES <input type="text"/> NO <input type="text"/> N/A <input type="text"/>

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	YES <input type="text"/>
5	Dimensions of all building set backs	YES <input type="text"/>
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	YES <input type="text"/>
7	Provide a full legal description of property.	YES <input type="text"/>

Wind-load Engineering Summary, calculations and any details are required.

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

Items to Include-
Each Box shall be
Marked as
Applicable

		Select From the Dropdown
8	Plans or specifications must show compliance with FBCR Chapter 3	YES <input type="text"/> NO <input type="text"/> N/A <input type="text"/>
9	Basic wind speed (3-second gust), miles per hour	YES <input type="text"/>
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	YES <input type="text"/>
11	Wind importance factor and nature of occupancy	YES <input type="text"/>
12	The applicable internal pressure coefficient, Components and Cladding	YES <input type="text"/>
13	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component, cladding materials not specifically designed by the registered design professional.	YES <input type="text"/>

Elevations Drawing including:

14	All side views of the structure	YES <input type="text"/>
15	Roof pitch	YES <input type="text"/>
16	Overhang dimensions and detail with attic ventilation	YES <input type="text"/>
17	Location, size and height above roof of chimneys	YES <input type="text"/>
18	Location and size of skylights with Florida Product Approval	YES <input type="text"/>
18	Number of stories	YES <input type="text"/>
20A	Building height from the established grade to the roofs highest peak	YES <input type="text"/>

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	YES <input type="text"/>
21	Raised floor surfaces located more than 30 inches above the floor or grade	YES <input type="text"/>
22	All exterior and interior shear walls indicated	YES <input type="text"/>
23	Shear wall opening shown (Windows, Doors and Garage doors)	YES <input type="text"/>
24	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 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.	YES <input type="text"/>
25	Safety glazing of glass where needed	YES <input type="text"/>
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	YES <input type="text"/>
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	YES <input type="text"/>
28	Identify accessibility of bathroom (see FBCR SECTION 320)	YES <input type="text"/>

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: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Marked as Applicable
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FBCR 403: Foundation Plans

YES / NO / N/A

		Select From the Dropdown
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	YES <input type="text"/>
30	All posts and/or column footing including size and reinforcing	YES <input type="text"/>
31	Any special support required by soil analysis such as piling.	YES <input type="text"/>
32	Assumed load-bearing value of soil _____ Pound Per Square Foot	YES <input type="text"/>
33	Location of horizontal and vertical steel, for foundation or walls (include # size and 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	YES <input type="text"/>

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	YES <input type="text"/>
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	YES <input type="text"/>

FBCR 318: PROTECTION AGAINST TERMITES

36	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	YES <input type="text"/>
----	--	--------------------------

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	YES <input type="text"/>
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	YES <input type="text"/>

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

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	YES <input type="text"/>
----	---	--------------------------

40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	YES
41	Girder type, size and spacing to load bearing walls, stem wall and/or piers	YES
42	Attachment of joist to girder	YES
43	Wind load requirements where applicable	YES
44	Show required under-floor crawl space	YES
45	Show required amount of ventilation opening for under-floor spaces	YES
46	Show required covering of ventilation opening	YES
47	Show the required access opening to access to under-floor spaces	YES
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	YES
49	Show Draftstopping, Fire caulking and Fire blocking	YES
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	YES
51	Provide live and dead load rating of floor framing systems (psf).	YES

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

YES / NO / N/A

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropdown
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	YES
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	YES
54	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	YES
55	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	YES
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per IRC Table 502.5 (1)	YES
57	Indicate where pressure treated wood will be placed	YES
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	YES
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	YES

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses	YES
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	YES
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	YES
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	YES
64	Provide dead load rating of trusses	YES

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing	YES
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating	YES
67	Valley framing and support details	YES
68	Provide dead load rating of rafter system	YES

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assemblies covering	YES
72	Submit Florida Product Approval numbers for each component of the roof assemblies covering	YES

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.**

YES / NO / N/A

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropdown
73	Show the insulation R value for the following areas of the structure	YES
74	Attic space	YES
75	Exterior wall cavity	YES
76	Crawl space	YES

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study	YES
78	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required	YES
79	Show clothes dryer route and total run of exhaust duct	YES

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan	YES
81	Show the location of water heater	YES

Private Potable Water

82	Pump motor horse power	YES
83	Reservoir pressure tank gallon capacity	YES
84	Rating of cycle stop valve if used	YES

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	YES
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	YES
87	Show the location of smoke detectors & Carbon monoxide detectors	YES
88	Show service panel, sub-panel, location(s) and total ampere ratings	YES
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	YES
90	Appliances and HVAC equipment and disconnects	YES
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.	N/A

<p align="center">GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</p>	<p align="center">Items to Include- Each Box shall be Circled as Applicable</p>
---	---

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 fee can be mailed.	YES		
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	YES		
94	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.	NO		
***	BELOW ITEMS ONLY NEEDED AFTER ZONING APPROVAL HAS GIVEN.	****	***	***
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	YES		
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	YES		
97	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 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	NO		
98	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.			
99	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00			
100	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.	YES		
101	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.	YES		

TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION SITES. NO

Disclosure Statement for Owner Builders *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.

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			
A. SWINGING	PGT IND.	EXTERIOR DOORS	FL253-R12
B. SLIDING			
C. SECTIONAL/ROLL UP	OVERHEAD DOORS	GARAGE DOOR	FL742-R6
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	PGT IND.	SH WINDOWS	FL239-R19
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	JAMES HARDI	HARDIBOARD SIDING	FLB192-R2
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	TAMKO	ASPHALT SHINGLES	FL1956-R8
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

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.

Contractor OR Agent Signature

Date

NOTES: _____

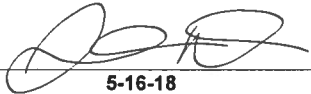
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Bristol Model Street: City, State, Zip: Lake City, FL, 32024 Owner: Spec House Design Location: FL, Gainesville	Builder Name: Aaron Simque Homes Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
--	---

1. New construction or existing New (From Plans) 2. Single family or multiple family Single-family 3. Number of units, if multiple family 1 4. Number of Bedrooms 4 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 3119 Conditioned floor area below grade (ft²) 0 7. Windows(393.3 sqft.) Description Area a. U-Factor: Dbl, U=0.33 393.33 ft² SHGC: SHGC=0.22 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: 6.087 ft. Area Weighted Average SHGC: 0.220 8. Floor Types (3119.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 3119.00 ft² b. N/A R= ft² c. N/A R= ft²	9. Wall Types(2103.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1770.00 ft² b. Frame - Wood, Adjacent R=13.0 333.00 ft² c. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (3119.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 3119.00 ft² b. N/A R= ft² c. N/A R= ft² 11. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: Garage 8 623.8 12. Cooling systems kBtu/hr Efficiency a. Central Unit 60.0 SEER:15.00 13. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 60.0 HSPF:8.50 14. Hot water systems Cap: 40 gallons a. Electric EF: 0.920 b. Conservation features None 15. Credits CF, Pstat
---	---

Glass/Floor Area: 0.126	Total Proposed Modified Loads: 62.88	PASS
	Total Baseline Loads: 72.38	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 5-16-18 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes. BUILDING OFFICIAL: _____ DATE: _____
--	---



- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).
- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

PROJECT

Title:	Bristol Model	Bedrooms:	4	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	3119	Lot #	
Owner Name:	Spec House	Total Stories:	1	Block/Subdivision:	Preserves
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Aaron Simque Homes	Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32024
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	3119	24952

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	3119	24952	Yes	6	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	235 ft	0	3119 ft²	----	0.33	0.33	0.34

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	3749 ft²	0 ft²	Medium	0.85	No	0.9	No	0	33.7

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	3119 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	3119 ft²	0.11	Wood

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft²	0.625	0.23	0.75	0
2	W	Exterior	Frame - Wood	Main	13	8	4	9		75.0 ft²	0.625	0.23	0.75	0
3	N	Exterior	Frame - Wood	Main	13	29	4	9		264.0 ft²	0.625	0.23	0.75	0
4	W	Exterior	Frame - Wood	Main	13	16	4	9		147.0 ft²	0.625	0.23	0.75	0
5	N	Exterior	Frame - Wood	Main	13	14	8	9		132.0 ft²	0.625	0.23	0.75	0
6	E	Exterior	Frame - Wood	Main	13	39	4	9		354.0 ft²	0.625	0.23	0.75	0
7	S	Exterior	Frame - Wood	Main	13	8	4	9		75.0 ft²	0.625	0.23	0.75	0
8	E	Exterior	Frame - Wood	Main	13	4	8	9		42.0 ft²	0.625	0.23	0.75	0
9	S	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft²	0.625	0.23	0.75	0
10	W	Exterior	Frame - Wood	Main	13	1		9		9.0 ft²	0.625	0.23	0.75	0
11	S	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft²	0.625	0.23	0.75	0
12	E	Exterior	Frame - Wood	Main	13	33	8	9		303.0 ft²	0.625	0.23	0.75	0
13	S	Garage	Frame - Wood	Main	13	37		9		333.0 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	S	Insulated	Main	None	.4	3		6	8	20 ft²
2	S	Insulated	Main	None	.4	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	17 ft 10 in	1 ft 4 in	None	None
2	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	144.0 ft²	9 ft 6 in	1 ft 4 in	None	None
3	N	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	54.0 ft²	1 ft 6 in	1 ft 4 in	None	None
4	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
5	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	16.0 ft²	1 ft 6 in	1 ft 4 in	None	None
6	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	4.0 ft²	1 ft 6 in	1 ft 4 in	None	None
7	S	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	13.3 ft²	12 ft 2 in	1 ft 4 in	None	None
8	S	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	7 ft 6 in	1 ft 4 in	None	None
9	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
10	E	12	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	520.674 ft²	520.674 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000254	2079.3	114.15	214.68	.1957	5

HEATING SYSTEM

<input checked="" type="checkbox"/>	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
<input type="checkbox"/>	1	Electric Heat Pump/	None	HSPF:8.5	60 kBtu/hr	1	sys#1

COOLING SYSTEM

<input checked="" type="checkbox"/>	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
<input type="checkbox"/>	1	Central Unit/	None	SEER: 15	60 kBtu/hr	1800 cfm	0.8	1	sys#1

HOT WATER SYSTEM

<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
<input type="checkbox"/>	1	Electric	None	Garage	0.92	40 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
<input type="checkbox"/>	None	None			ft ²		

DUCTS

<input checked="" type="checkbox"/>	#	--- Supply ---			--- Return ---			Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area	Leakage Type						Heat	Cool
<input type="checkbox"/>	1	Attic	8	623.8 ft	Attic	155.95	Prop. Leak Free	Garage	-- cfm	93.6 cfm	0.03	0.50	1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec

FORM R405-2017

Thermostat Schedule: HERS 2006 Reference		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

Residential System Sizing Calculation

Summary

Spec House

Project Title:
Bristol Model

Lake City, FL 32024

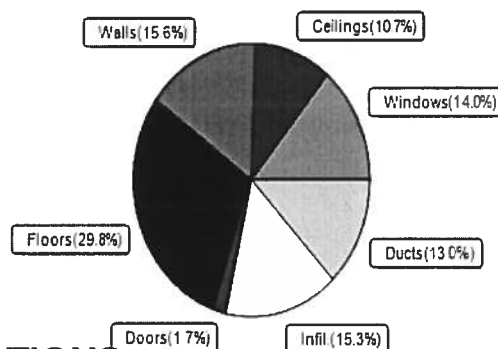
5/17/2018

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(TMY3 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	37212 Btuh	Total cooling load calculation	29038 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	161.2 60000	Sensible (SHR = 0.80)	202.4 48000
Heat Pump + Auxiliary(0.0kW)	161.2 60000	Latent	225.6 12000
		Total (Electric Heat Pump)	206.6 60000

WINTER CALCULATIONS

Winter Heating Load (for 3119 sqft)

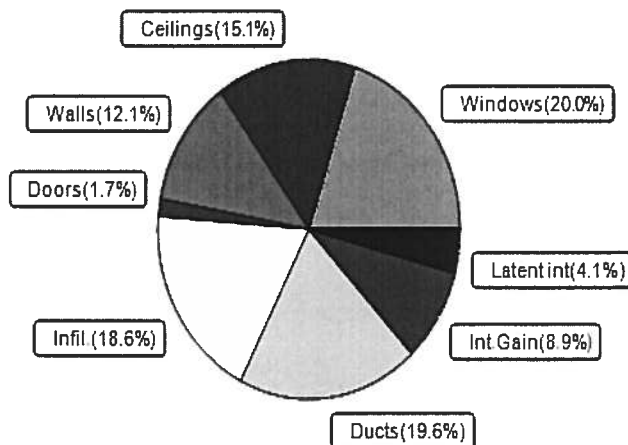
Load component		Load	
Window total	393 sqft	5192 Btuh	
Wall total	1670 sqft	5790 Btuh	
Door total	40 sqft	640 Btuh	
Ceiling total	3119 sqft	3973 Btuh	
Floor total	3119 sqft	11092 Btuh	
Infiltration	130 cfm	5702 Btuh	
Duct loss		4823 Btuh	
Subtotal		37212 Btuh	
Ventilation	0 cfm	0 Btuh	
TOTAL HEAT LOSS		37212 Btuh	



SUMMER CALCULATIONS

Summer Cooling Load (for 3119 sqft)

Load component		Load	
Window total	393 sqft	5812 Btuh	
Wall total	1670 sqft	3510 Btuh	
Door total	40 sqft	480 Btuh	
Ceiling total	3119 sqft	4371 Btuh	
Floor total		0 Btuh	
Infiltration	98 cfm	2031 Btuh	
Internal gain		2580 Btuh	
Duct gain		4934 Btuh	
Sens. Ventilation	0 cfm	0 Btuh	
Blower Load		0 Btuh	
Total sensible gain		23718 Btuh	
Latent gain(ducts)		749 Btuh	
Latent gain(infiltration)		3371 Btuh	
Latent gain(ventilation)		0 Btuh	
Latent gain(internal/occupants/other)		1200 Btuh	
Total latent gain		5320 Btuh	
TOTAL HEAT GAIN		29038 Btuh	



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

5-16-18

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Lake City, FL 32024

Project Title:
Bristol Model
Building Type: User

5/17/2018

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

Component Loads for Whole House									
Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load	
1	2, NFRC 0.22	Vinyl	0.33	N	18.0		13.2	238 Btuh	
2	2, NFRC 0.22	Vinyl	0.33	N	144.0		13.2	1901 Btuh	
3	2, NFRC 0.22	Vinyl	0.33	N	54.0		13.2	713 Btuh	
4	2, NFRC 0.22	Vinyl	0.33	E	36.0		13.2	475 Btuh	
5	2, NFRC 0.22	Vinyl	0.33	E	16.0		13.2	211 Btuh	
6	2, NFRC 0.22	Vinyl	0.33	E	4.0		13.2	53 Btuh	
7	2, NFRC 0.22	Vinyl	0.33	S	13.3		13.2	176 Btuh	
8	2, NFRC 0.22	Vinyl	0.33	S	36.0		13.2	475 Btuh	
9	2, NFRC 0.22	Vinyl	0.33	S	36.0		13.2	475 Btuh	
10	2, NFRC 0.22	Vinyl	0.33	E	36.0		13.2	475 Btuh	
	Window Total					393.3(sqft)			5192 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load	
1	Frame - Wood	- Ext	(0.086)	13.0/0.6	105		3.45	362 Btuh	
2	Frame - Wood	- Ext	(0.086)	13.0/0.6	75		3.45	259 Btuh	
3	Frame - Wood	- Ext	(0.086)	13.0/0.6	120		3.45	414 Btuh	
4	Frame - Wood	- Ext	(0.086)	13.0/0.6	147		3.45	507 Btuh	
5	Frame - Wood	- Ext	(0.086)	13.0/0.6	78		3.45	269 Btuh	
6	Frame - Wood	- Ext	(0.086)	13.0/0.6	298		3.45	1028 Btuh	
7	Frame - Wood	- Ext	(0.086)	13.0/0.6	42		3.45	144 Btuh	
8	Frame - Wood	- Ext	(0.086)	13.0/0.6	42		3.45	145 Btuh	
9	Frame - Wood	- Ext	(0.086)	13.0/0.6	87		3.45	300 Btuh	
10	Frame - Wood	- Ext	(0.086)	13.0/0.6	9		3.45	31 Btuh	
11	Frame - Wood	- Ext	(0.086)	13.0/0.6	87		3.45	300 Btuh	
12	Frame - Wood	- Ext	(0.086)	13.0/0.6	267		3.45	921 Btuh	
13	Frame - Wood	- Adj	(0.089)	13.0/0.0	313		3.55	1111 Btuh	
	Wall Total					1670(sqft)			5790 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load	
1	Insulated - Exterior,	n	(0.400)		20		16.0	320 Btuh	
2	Insulated - Garage,	n	(0.400)		20		16.0	320 Btuh	
	Door Total					40(sqft)			640Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load	
1	Vented Attic/L/Shing		(0.032)	30.0/0.0	3119		1.3	3973 Btuh	
	Ceiling Total					3119(sqft)			3973Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load	
1	Slab On Grade		(1.180)	0.0	235.0 ft(perim.)		47.2	11092 Btuh	
	Floor Total					3119 sqft			11092 Btuh
	Envelope Subtotal:							26687 Btuh	
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		Load	
	Natural		0.31	24952	1.00	130.2		5702 Btuh	

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:

Bristol Model

Lake City, FL 32024

Building Type: User

5/17/2018

Duct load	Extremely sealed, R8.0, Supply(Att), Return(Att) (DLM of 0.149)	4823 Btuh
All Zones	Sensible Subtotal All Zones	37212 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	37212 Btuh 0 Btuh 37212 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	60000 Btuh
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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

Spec House

Project Title:

Bristol Model

Lake City, FL 32024

5/17/2018

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%)

Humidity difference: 51gr.

Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.22, 0.33	No	No	N		17.8f	1.3ft	18.0	0.0	18.0	11	11	196	Btuh
2	2 NFRC	0.22, 0.33	No	No	N		9.5ft	1.3ft	144.0	0.0	144.0	11	11	1569	Btuh
3	2 NFRC	0.22, 0.33	No	No	N		1.5ft	1.3ft	54.0	0.0	54.0	11	11	588	Btuh
4	2 NFRC	0.22, 0.33	No	No	E		1.5ft	1.3ft	36.0	0.0	36.0	11	27	989	Btuh
5	2 NFRC	0.22, 0.33	No	No	E		1.5ft	1.3ft	16.0	0.0	16.0	11	27	440	Btuh
6	2 NFRC	0.22, 0.33	No	No	E		1.5ft	1.3ft	4.0	0.0	4.0	11	27	110	Btuh
7	2 NFRC	0.22, 0.33	No	No	S		12.2f	1.3ft	13.3	13.3	0.0	11	13	145	Btuh
8	2 NFRC	0.22, 0.33	No	No	S		7.5ft	1.3ft	36.0	36.0	0.0	11	13	392	Btuh
9	2 NFRC	0.22, 0.33	No	No	S		1.5ft	1.3ft	36.0	36.0	0.0	11	13	392	Btuh
10	2 NFRC	0.22, 0.33	No	No	E		1.5ft	1.3ft	36.0	0.0	36.0	11	27	989	Btuh
	Window Total								393 (sqft)					5812 Btuh	
Walls	Type	U-Value		R-Value		Area(sqft)		HTM		Load					
1	Frame - Wood - Ext	0.09		13.0/0.6		105.0		2.2		231 Btuh					
2	Frame - Wood - Ext	0.09		13.0/0.6		75.0		2.2		165 Btuh					
3	Frame - Wood - Ext	0.09		13.0/0.6		120.0		2.2		264 Btuh					
4	Frame - Wood - Ext	0.09		13.0/0.6		147.0		2.2		323 Btuh					
5	Frame - Wood - Ext	0.09		13.0/0.6		78.0		2.2		171 Btuh					
6	Frame - Wood - Ext	0.09		13.0/0.6		298.0		2.2		655 Btuh					
7	Frame - Wood - Ext	0.09		13.0/0.6		41.7		2.2		92 Btuh					
8	Frame - Wood - Ext	0.09		13.0/0.6		42.0		2.2		92 Btuh					
9	Frame - Wood - Ext	0.09		13.0/0.6		87.0		2.2		191 Btuh					
10	Frame - Wood - Ext	0.09		13.0/0.6		9.0		2.2		20 Btuh					
11	Frame - Wood - Ext	0.09		13.0/0.6		87.0		2.2		191 Btuh					
12	Frame - Wood - Ext	0.09		13.0/0.6		267.0		2.2		587 Btuh					
13	Frame - Wood - Adj	0.09		13.0/0.0		313.0		1.7		528 Btuh					
	Wall Total								1670 (sqft)			3510 Btuh			
Doors	Type	Area (sqft)		HTM		Load									
1	Insulated - Exterior	20.0		12.0		240 Btuh									
2	Insulated - Garage	20.0		12.0		240 Btuh									
	Door Total								40 (sqft)			480 Btuh			
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load					
1	Vented Attic/Light/Shingle	0.032		30.0/0.0		3119.0		1.40		4371 Btuh					
	Ceiling Total								3119 (sqft)			4371 Btuh			
Floors	Type	R-Value		Size		HTM		Load							
1	Slab On Grade	0.0		3119 (ft-perimeter)		0.0		0 Btuh							
	Floor Total								3119.0 (sqft)			0 Btuh			
	Envelope Subtotal:													14173 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Bristol Model

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL 32024

5/17/2018

Infiltration	Type Natural	Average ACH 0.23	Volume(cuft) 24952	Wall Ratio 1	CFM= 97.7	Load 2031 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230	Appliance +	1200	Load 2580 Btuh
					Sensible Envelope Load:	18784 Btuh
Duct load	Extremely sealed, Supply(R8.0-Attic), Return(R8.0-Attic) (DGM of 0.263)					4934 Btuh
					Sensible Load All Zones	23718 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Bristol Model

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL 32024

5/17/2018

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	18784 Btuh
	Sensible Duct Load	4934 Btuh
	Total Sensible Zone Loads	23718 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	23718 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	3371 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	749 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5320 Btuh
	TOTAL GAIN	29038 Btuh

EQUIPMENT

1. Central Unit	#	60000 Btuh
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*Key: Window types (Panels - Number and type of panes of glass)
 (SHGC - Shading coefficient of glass as SHGC numerical value)
 (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)



Version 8