



COLUMBIA COUNTY BUILDING DEPARTMENT  
RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2020 EFFECTIVE 1 JANUARY 2021  
AND THE NATIONAL ELECTRICAL 2017 EFFECTIVE 1 JANUARY 2021

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS, FBC 1609.1 THRU 1609.6.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609.3(1)  
THROUGH 1609.3(4) ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES Revised 7/1/20

Submit Online at- <http://www.columbiacountyfla.com/BuildingandZoning.asp>

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

Items to Include-  
Each Box shall be  
Circled as  
Applicable

	Select From Drop down	Items to Include- Each Box shall be Circled as Applicable		
		Yes	No	NA
1	Two (2) complete sets of plans containing the following:	<input checked="" type="checkbox"/>		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	<input checked="" type="checkbox"/>		
3	Condition space (Sq. Ft.) <u>2800</u> Total (Sq. Ft.) under roof <u>12,522</u>	<input checked="" type="checkbox"/>		

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 BUILDING 107.1.

Site Plan information including:

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

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

GENERAL REQUIREMENTS:

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Each Box shall be  
Circled as  
Applicable

	Select From Drop down	Items to Include- Each Box shall be Circled as Applicable		
		Yes	No	NA
8	Plans or specifications must show compliance with FBCR Chapter 3	<input checked="" type="checkbox"/>		
9	Basic wind speed (3-second gust), miles per hour	<input checked="" type="checkbox"/>		
10	(Wind exposure - if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	<input checked="" type="checkbox"/>		
11	Wind importance factor and nature of occupancy	<input checked="" type="checkbox"/>		
12	The applicable internal pressure coefficient, Components and Cladding	<input checked="" type="checkbox"/>		
13	The design wind pressure in terms of psf (kN/m <sup>2</sup> ), to be used for the design of exterior component, cladding materials not specially designed by the registered design professional.	<input checked="" type="checkbox"/>		

Elevations Drawing including:

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



**Floor Plan Including:**

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	<input checked="" type="checkbox"/>			
22	Raised floor surfaces located more than 30 inches above the floor or grade	-			
23	All exterior and interior shear walls indicated	<input checked="" type="checkbox"/>			
24	Shear wall opening shown (Windows, Doors and Garage doors)	<input checked="" type="checkbox"/>			
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBCR 312.2.1 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.	<input checked="" type="checkbox"/>			
26	Safety glazing of glass where needed	-			
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	-			
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	-			
29	Identify accessibility of bathroom (see FBCR SECTION 320)	-			

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

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
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**FBCR 403: Foundation Plans**

30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	<input checked="" type="checkbox"/>	Select From Drop down		
31	All posts and/or column footing including size and reinforcing	<input checked="" type="checkbox"/>			
32	Any special support required by soil analysis such as piling.	-			
33	Assumed load-bearing value of soil      Pound Per Square Foot	-			
34	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	<input checked="" type="checkbox"/>			

**FBCR 506: CONCRETE SLAB ON GRADE**

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

**FBCR 318: PROTECTION AGAINST TERMITES**

37	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	<input checked="" type="checkbox"/>			
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**FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)**

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

**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**

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

**FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION**

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

53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	<input checked="" type="checkbox"/>			
54	Fastener schedule for structural members per table FBC 2304.10.1 are to be shown	<input checked="" type="checkbox"/>			
55	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	<input checked="" type="checkbox"/>			
56	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	<input checked="" type="checkbox"/>			
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC 2304.3.	<input checked="" type="checkbox"/>			
58	Indicate where pressure treated wood will be placed	<input checked="" type="checkbox"/>			
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	<input checked="" type="checkbox"/>			
60	A detail showing gable truss bracing, wall balloon framing details or/and wall hinge bracing detail	<input checked="" type="checkbox"/>			

**FBC :ROOF SYSTEMS:**

61	Truss design drawing shall meet section FBC 2303.1.1.1 Wood trusses	<input checked="" type="checkbox"/>			
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	<input checked="" type="checkbox"/>			
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	<input checked="" type="checkbox"/>			
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	<input checked="" type="checkbox"/>			
65	Provide dead load rating of trusses	<input checked="" type="checkbox"/>			

**FBC 2304.4:Conventional Roof Framing Layout**

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

**FBC 2304.8 ROOF SHEATHING**

70	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	<input checked="" type="checkbox"/>			
71	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	<input checked="" type="checkbox"/>			



## ROOF ASSEMBLIES FRC Chapter 15

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

## FBC Energy Chapter 4

Residential construction shall comply with this code by using the following compliance methods in the FBC Chapter 4, Residential buildings compliance methods. Two of the required forms are to be submitted, N1100.1.1. As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600.A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
74	Show the insulation R value for the following areas of the structure	Select from Drop Down		
75	Attic space	-		
76	Exterior wall cavity	-		
77	Crawl space	-		

## HVAC information

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

## Plumbing Fixture layout shown

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

## Private Potable Water

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

## Electrical layout shown including

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	-		
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	-		
88	Show the location of smoke detectors & Carbon monoxide detectors	-		
89	Show service panel, sub-panel, location(s) and total ampere ratings	-		
90	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.	-		
91	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	-		
92	Appliances and HVAC equipment and disconnects	-		
92	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter, Protection device.	-		



**Notice Of Commencement:**

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

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**\*\*ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.\*\*** *Select from Drop down*

93	<b>Building Permit Application</b> 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.	<input checked="" type="checkbox"/>		
94	<b>Parcel Number</b> The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. <a href="http://www.columbiacountyfla.com">www.columbiacountyfla.com</a>	<input checked="" type="checkbox"/>		
95	<b>Environmental Health Permit or Sewer Tap Approval</b> A copy of a approved Columbia County Environmental Health (386) 758-1058	<input checked="" type="checkbox"/>		
96	<b>City of Lake City A City Water and/or Sewer letter.</b> Call 386-752-2031	-		
97	<b>Toilet facilities shall be provided for all construction sites</b>	-		
98	<b>Town of Fort White</b> (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.	-		
99	<b>Flood Information:</b> 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 (Municode.com)	-		
100	<b>CERTIFIED FINISHED FLOOR ELEVATIONS</b> 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.	-		
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00	-		
102	<b>Driveway Connection:</b> 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 installation 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.	<input checked="" type="checkbox"/>		
103	<b>911 Address:</b> 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.	-		

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





**COLUMBIA COUNTY BUILDING DEPARTMENT**  
135 NE Hernando Ave., Suite B-21  
Lake City, FL 32055  
Office: 386-758-1008 Fax: 386-758-2160

#### **OWNER BUILDER DISCLOSURE STATEMENT**

**Florida Statutes Chapter 489.103:**

1. I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.
2. I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.
3. I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers on permits and contracts.
4. I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease, unless I am completing the requirements of a building permit where the contractor listed on the permit substantially completed the project. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.
5. I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.
6. I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.



7. I understand that it is a frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

8. I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

9. I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

10. I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at **850-487-1395** or <http://www.myfloridalicense.com/> for more information about licensed contractors.

11. I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

331 NW Gables GLN , Lake City , Florida 32055

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**(Write in the address of jobsite property)**



Before a building permit shall be issued, this notarized disclosure statement must be completed and signed by the property owner and returned to the local permitting agency responsible for issuing the permit.

**TYPE OF CONSTRUCTION**

- ☒ **Single Family Dwelling**    ☐ **Two-Family Residence**    ☐ **Farm Outbuilding**  
☐ **Addition, Alteration, Modification or other Improvement**    ☐ **Electrical**  
☐ **Other** \_\_\_\_\_  
☐ **Contractor substantially completed project, of a** \_\_\_\_\_  
☐ **Commercial, Cost of Construction** \_\_\_\_\_ **for construction of** \_\_\_\_\_

I Larry Fleming, have been advised of the above disclosure  
(Print Property Owners Name)  
statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

Signature: [Signature] Date: 1-18-23  
(Signature of property owner)

**NOTARY OF OWNER BUILDER SIGNATURE**

The above signer is personally known to me or produced identification Florida Driver License

Notary Signature [Signature] Date 1-18-2023 (Seal)  
Leigh Ann Hallard







COLUMBIA COUNTY BUILDING DEPARTMENT  
LETTER OF AUTHORIZATION TO SIGN FOR PERMITS  
135 NE Hernando Ave, Suite B-21, Lake City, FL 32055  
Phone: 386-758-1008 Fax: 386-758-2160

I, Dion Taylor (license holder name), licensed qualifier  
for Dion Taylor Construction Inc. (company name), do certify that  
the below referenced person(s) listed on this form is/are **employed** by me directly or through an  
employee leasing arrangement; or, is an officer of the corporation; or, partner as defined in  
Florida Statutes Chapter 468, and the said person(s) is/are under my direct supervision and  
control and is/are authorized to purchase permits, call for inspections, and sign on my behalf.

Printed Name of Person Authorized	Signature of Authorized Person
1. <u>Dion Taylor</u>	1. <u>[Signature]</u>
2.	2.
3.	3.
4.	4.
5.	5.

I, the license holder, realize that I am responsible for all permits purchased, and all work done  
under my license and fully responsible for compliance with all Florida Statutes, Codes, and  
Local Ordinances. I understand that the State and County Licensing Boards have the power and  
authority to discipline a license holder for violations committed by him/her, his/her agents,  
officers, or employees and that I have full responsibility for compliance with all statutes, codes  
and ordinances inherent in the privilege granted by issuance of such permits.

If at any time the person(s) you have authorized is/are no longer employee(s), or officer(s), you  
must notify this department in writing of the changes and submit a new letter of authorization  
form, which will supersede all previous lists. Failure to do so may allow unauthorized persons to  
use your name and/or license number to obtain permits.

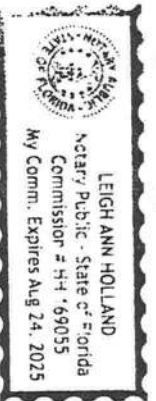
License Holders Signature (Notarized) [Signature] CRC1333455  
License Number 1-18-2023 Date

NOTARY INFORMATION:  
STATE OF: Florida COUNTY OF: Columbia

The above license holder, whose name is Dion Taylor,  
personally appeared before me and is known by me or has produced identification  
(type of I.D.) Florida Driver License on this 18 day of January, 20 23.

NOTARY'S SIGNATURE [Signature] Leigh Ann Holland

(Seal/Stamp)





**SIMPSON**

**Strong-Tie**


**Job Cover Sheet**

<b>Job #:</b>	173926
<b>Job Name:</b>	P-2442
<b>Job Type:</b>	Project
<b>Customer:</b>	Lynn Manufacturing & Building Co
<b>Seal:</b>	Florida
<b>Received:</b>	12/8/2022 12:01 PM
<b>Priority:</b>	Normal
<b>Requested:</b>	12/12/2022 8:08 AM

**Contact/Shipping Information**

Sent By:	Lynn Manufacturing	# of Trusses:	5	# of Wet:	0
Sender Email:	lynnmtg@pineland.net	Design App:	Truss Studio	Version:	2022.3.1.2
Eng Email:	lynnmtg@pineland.net	Original Studio Version:	2022.3.1.2		
Ship Type:	Email	Catalog:	173926_Catalog		
		Assoc. Jobs:			

**Design Information**

#	Truss	Span	Pitch	L/R OH	App/ Version	Modified	Sequence #	
1	T2	40-0-0	5.00 0.00	2-0-0 2-0-0	Truss Studio 2022.3.1.2	X	1842639	

Customer Note:

Engineering Note:

2	G2	30-0-0	5.00 0.00	2-0-0 2-0-0	Truss Studio 2022.3.1.2	X	1842640	
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Customer Note:

Engineering Note:

3	G1	52-0-0	5.00 0.00	2-0-0 2-0-0	Truss Studio 2022.3.1.2	X	1842641	
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Customer Note:

Engineering Note:

4	T1	52-0-0	5.00 0.00	2-0-0 2-0-0	Truss Studio 2022.3.1.2	X	1842642	
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Customer Note:

Engineering Note:

5	T3	30-0-0	5.00 0.00	2-0-0 2-0-0	Truss Studio 2022.3.1.2	X	1842643	
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Customer Note:

Engineering Note:





COMPONENT DESIGN DRAWINGS & DETAILS

Simpson Strong-Tie  
Company, Inc.  
5956 W. Las Positas Blvd.  
Pleasanton, CA 94588  
(800) 999-5099  
www.strongtie.com

Prepared for:	Lynn Manufacturing & Building Co
Job:	P-2442
Date:	12/8/2022 12:01 PM
Ref. Number:	173926

Notes:

- 1. The component design drawings referenced below have been prepared based on design criteria and requirements set forth in the Construction Documents, as communicated by the Component Manufacturer.
- 2. The engineer's signature on these drawings indicates professional engineering responsibility solely for the individual components to be able to resist the design loads indicated, utilizing all the design parameter and materials indicated or referenced on each individual design.
- 3. It is the Building Designer's responsibility to review the component design drawings to insure compatibility with the Building design. Refer to all notes on the individual component design drawings.

5 Component Design Drawing(s):

1-T2: SID 1842639	3-G1: SID 1842641	5-T3: SID 1842643
2-G2: SID 1842640	4-T1: SID 1842642	



General Notes

- Each Truss Design Drawing (TDD) provided with this sheet has been prepared in conformance with ANSI/TPI 1. Refer to ANSI/TPI 1 Chapter 2 for the responsibilities of all parties involved, which include but are not limited to the terms referenced in this document.
- TDDs should not be assumed to be to scale.
- The Contractor and Building Designer shall review and approve the Truss Submittal Package.
- The suitability and use of the component depicted on the TDD for any particular building design is the responsibility of the Building Designer.
- The Building Designer is responsible for the anchorage of the truss at all bearing locations as required to resist uplift, gravity and lateral loads, and for all Truss-to-Structural Element connections except Truss-to-Truss connections.
- The Building Designer shall ensure that the supporting structure can accommodate the vertical and/or horizontal truss deflections.
- Unless specifically stated otherwise, each Design assumes trusses will be adequately protected from the environment and will not be used in corrosive environments unless protected using an approved method. This includes not being used in locations where the sustained temperature is greater than 150°F.
- Trusses are designed to carry loads within their plane. Any out-of-plane loads must be resisted by the Permanent Building Stability Bracing.
- Design dead loads must account for all materials, including self-weight. The TDD notes will indicate the min. pitch above which the dead loads are automatically increased for pitch effects.
- Trusses installed with roof slopes less than 0.25/12 may experience (but are not designed for) ponding. The Building Designer must ensure that adequate drainage is provided to prevent ponding.
- Camber is a non-structural consideration and is the responsibility of truss fabricator.

Handling, Installing, Restraint & Bracing

- The Contractor is responsible for the proper handling, erection, restraint and bracing of the Trusses. In lieu of job-specific details, refer to BCSI.
- ANSI/TPI 1 stipulates that for trusses spanning 60' or greater, the Owner shall contract with any Registered Design Professional for the design and inspection of the temporary and permanent truss restraint and bracing. Simpson Strong-Tie is not responsible for providing these services.
- Trusses require permanent lateral restraint to be applied to chords and certain web members (when indicated) at the locations or intervals indicated on the TDD. Web restraints are to be located at mid points, or third points of the member and chord purlins are not to exceed the spacing specified by the TDD. Chords shown without bracing indicated are assumed to be continuously braced by sheathing or drywall. Permanent lateral restraint shall be accomplished in accordance with: standard industry lateral restraint/bracing details in BCSI-B3 or BCSI-B7, supplemental bracing details referenced on the TDD, or as specified in a project-specific truss permanent bracing plan provided by the Building Designer.
- Additional building stability permanent bracing shall be installed as specified in the Construction Documents.
- Special end wall bracing design considerations may be required if a flat gable end frame is used with adjacent trusses that have sloped bottom chords (see BCSI-B3).
- Do not cut, drill, trim, or otherwise alter truss members or plates without prior written approval of an engineer, unless specifically noted on the TDD.
- Piggyback assemblies shall be braced as per BCSI-B3 unless otherwise specified in the Construction Documents.
- For floor trusses, when specified, Strongbacking shall be installed per BCSI-B7 unless otherwise specified in the Construction Documents.
- For IBC 2021 and newer, truss chords without a diaphragm require a project specific bracing design prepared by a registered design professional.

Symbols and Nomenclature

5x7

Plate size; the first digit is the plate width (perp. to the slots) and the second digit is the plate length (parallel to the slots).

5x7-18

-18, -18S5, or -18S6 following the plate size indicates different 18 gauge plate types.



These symbols following the plate size indicate the direction of the plate length (and tooth slots) for square and nearly square plates.

10-3-14

Dimensions are shown in feet-inches-sixteenths (for this example, the dimension is 10'-3 14/16").



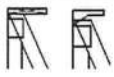
Joints are numbered left to right, first along the top chord and then along the bottom chord. Mid-panel splice joint numbers are not shown on the drawing. Members are identified using their end joint numbers (e.g., TC 2-3).



When this symbol is shown, permanent lateral restraint is required. Lateral restraint may be applied to either edge of the member. See Note 3 under Handling, Installing, Restraint & Bracing for more information.



Bearing supports (wall, beam, etc.), locations at which the truss is required to have full bearing. Minimum required bearing width for the given reactions are reported on the TDD. Required bearing widths are based on the truss material and indicated PSI of the support material. The Building Designer is responsible for verifying that the capacity of the support material exceeds the indicated PSI, and for all other bearing design considerations.



Truss-to-Truss or Truss-to-Structural Element connection, which require a hanger or other structural connection (e.g., toe-nail) that has adequate capacity to resist the maximum reactions specified in the Reaction Summary. Structural connection type is not limited by type shown on TDD. Toe-nails may be used where hanger type shown where allowed by detail or other connection design information. Design of the Structural Element and the connection of the Truss to a Structural Element is by others.

Note: These symbols are for graphical interpretation only; they are not intended to give any indication of the geometry requirements of the actual item that is represented.

Materials and Fabrication

- Design assumes truss is manufactured in accordance with the TDD and the quality criteria in ANSI/TPI 1 Chapter 3, unless more restrictive criteria are part of the contract specifications.
- Unless specifically stated, lumber shall not exceed 19% moisture content at time of fabrication or in service.
- Design is not applicable for use with fire retardant, preservative treated or green lumber unless specifically stated on the TDD.
- Plate type, size, orientation and location indicated are based on the specified design parameters. Larger plate sizes may be substituted in accordance with ANSI/TPI, Section 3.6.3. Plates shall be embedded within ANSI/TPI 1 tolerances on both faces of the truss at each joint, unless noted otherwise.
- Truss plates shall be centered on the joint unless otherwise specified.

Referenced Standards

**ANSI/TPI 1:** National Design Standard for Metal Plate Connected Wood Truss Construction, a Truss Plate Institute publication ([www.tpinst.org](http://www.tpinst.org)).

**BCSI:** Guide to Good Practice for Handling, Installing, Restraining & Bracing Metal Plate Connected Wood Trusses, a joint publication of the Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and the Structural Building Components Association ([www.sbcindustry.com](http://www.sbcindustry.com)).

**DSB-89** Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses, a Truss Plate Institute publication ([www.tpinst.org](http://www.tpinst.org)).

**NDS:** National Design Specification for Wood Construction published by American Forest & Paper Association and American Wood Council.  
**ESR-2762** Simpson Strong-Tie® AS Truss Plates are covered under ESR-2762 published by the International Code Council Evaluation Service ([www.icc-es.org](http://www.icc-es.org)).





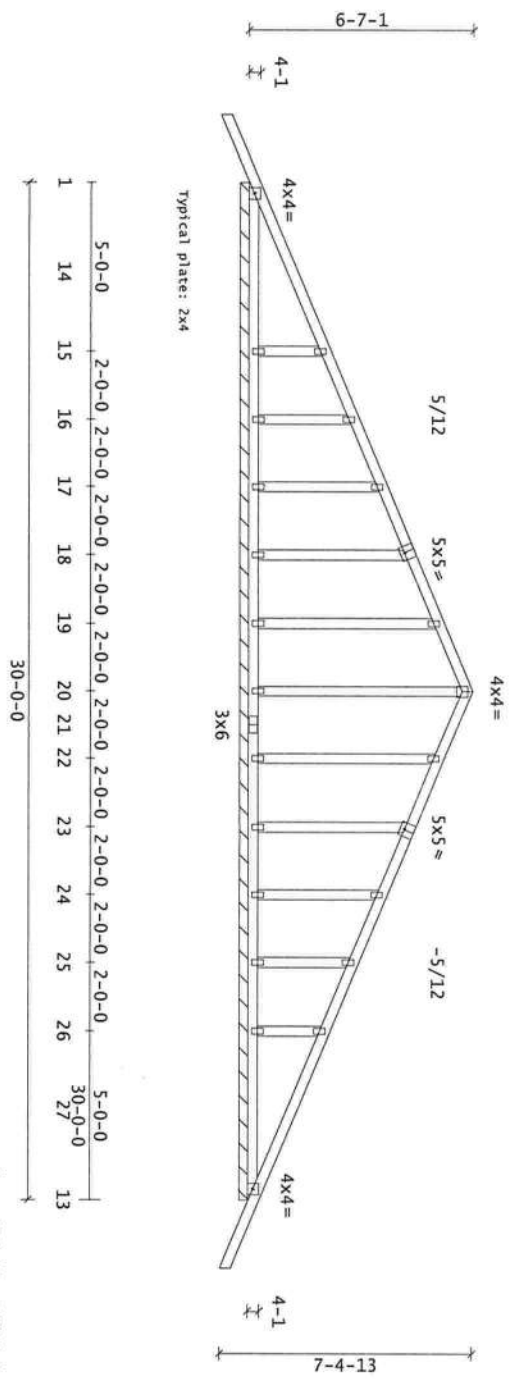


TID: 173926

Date: 12/09/22

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Figure 1: A diagram showing the evolution of the number of clusters over time. The vertical axis is labeled "Number of clusters" and ranges from 0 to 13. The horizontal axis is labeled "Time" and ranges from 0 to 13. The diagram shows a sequence of clusters (represented by circles) that merge and split over time. The clusters are labeled 1 through 13. The sequence starts with 1 cluster at time 0, which splits into 2 clusters at time 1. These 2 clusters merge into 1 cluster at time 2. This 1 cluster splits into 2 clusters at time 3. These 2 clusters merge into 1 cluster at time 4. This 1 cluster splits into 2 clusters at time 5. These 2 clusters merge into 1 cluster at time 6. This 1 cluster splits into 2 clusters at time 7. These 2 clusters merge into 1 cluster at time 8. This 1 cluster splits into 2 clusters at time 9. These 2 clusters merge into 1 cluster at time 10. This 1 cluster splits into 2 clusters at time 11. These 2 clusters merge into 1 cluster at time 12. This 1 cluster splits into 2 clusters at time 13. The final state at time 13 is 2 clusters.



Truss Weight = 167.4 lb

Code/Design: FRC-2020/FPI-204	
PSF Live Dead	Dur Factors
R/C 20.0 10.0	Live Wind Snow
BC 0.0	Lam 1.25 1.60 N/A
Total	Pit 1.25 1.60 N/A
Spacing: 2'-00"-00 o.c.	Piles: 1
Repetitive Member Increase:	Yes
Green Lumber:	No
Net Service:	Yes
Creep (in/cr): 2.0	
Shrinkage (in/cr): 2.0	
Soil Offset Load:	2.0 psf
Snow Load Speeds:	
ASCE-16 Ground Snow(S <sub>p</sub> ) = N/A	
Risk Cat: II Terrain Cat: B	
Roof Exposure: Sheltered	
Thermal Condition: A1 Other(1.0)	
Unobstructed Slippery Roof: No	
Low-Slope Minimum(P <sub>min</sub> ): Yes	
Unbalanced Snow Loads:	No
Main Surcharge: No Ice Dam Chk: No	
Blink Load Speeds:	
ASCE-16 Wind Speed(V) = 140 mph	
Risk Cat: II Exposure Cat: B	
Bldg Dims: L = 100.0 ft B = 52.0 ft	
M-R, H-C = 15.0 ft R-z = 1.0	
Bldg Enclosure: Enclosed	
Wind Dir(pst): TC = 6.0 BC = 6.0	
End Vertical Exposed: L = Yes R = Yes	
Wind Uplift Reporting: ASCE 7-WAFS	
CNC End Zone: 3-02-06	
-Additional Design Checks-	
10 psf Non-concurrent SCLL:	Yes
20 psf BC limited Storage:	Yes
200 lb BC Accessible Ceiling:	Yes
300 lb TC Maintenance Load:	Yes
2000 lb TC Safe Load:	No
Unbalanced TLL:	Yes

[illegible]

..Mem.	TC	7	9	BC	Web	Notes
9.6	9.6	9.6	9.6	9.6	9.6	Truss
177	177	177	177	177	177	Comp 0
5	5	5	5	5	5	0.63
7	7	7	7	7	7	0.17
117	117	117	117	117	117	0.10
9	9	9	9	9	9	0.61
13	13	13	13	13	13	0.43
180	180	180	180	180	180	0.43
180	180	180	180	180	180	0.43
21	21	21	21	21	21	0.15
15	15	15	15	15	15	0.03
2	2	2	2	2	2	0.03
3	3	3	3	3	3	0.03
16	16	16	16	16	16	0.03
5	5	5	5	5	5	0.08
18	18	18	18	18	18	0.12
93	93	93	93	93	93	0.12
7	7	7	7	7	7	0.12
20	20	20	20	20	20	0.12
8	8	8	8	8	8	0.12
23	23	23	23	23	23	0.08
93	93	93	93	93	93	0.05
1	1	1	1	1	1	0.05
15	15	15	15	15	15	0.03
4	4	4	4	4	4	0.03
26	26	26	26	26	26	0.03
150	150	150	150	150	150	0.03

Max Horiz = -125 / +125 at Joint 20

### Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [15-00-00] using a 1.00 full and 0.00 reduced load factor.

20.0 psf live load has been reduced for plicth(R2= 1.00) to 120.0 psf (allowed by the selected code)

See Loadcase Report for loading combinations and additional details.

### Notes

Gable webs are attached with min. 1x3 20 g.p.lates. The max rake overhang is 1/2 the truss spacing. If this truss is exposed to wind loads perpendicular to the plane of the truss, it must be braced according to a standard detail matching the wind criteria shown, or according to the Construction Documents and/or BC31 - B3.

Gable Requires 7/16" OSB sheathing on front from 0 to 30-00-00; connection details to be provided by building designer.

Plates designed for C-16 at 0.80 and rotational tolerance of 10.0 degrees

### Bracing Data Summary

-----Bracing Data-----

Chords: Sheathing required or bracing indicated: -----

-----Pullins-----To-----Flays

TC 5-03-00 -2-00-00 33-00-00 3

BC 10-00-00 0 30-00-00 3

Web Bracing: None

### Plate offsets (X, Y):

(None unless indicated below)

Jnt1(0.00-02), Jnt5(-00-05,00-15), Jnt9(00-05,00-15), Jnt13(0,00-02)

COA #30093  
12/9/2022  
This item has been digitally signed and sealed by  
Mehul H. Soni on the date adjacent to the seal.

12/8/2022

This item has been digitally signed and sealed by  
Mehul H. Soni on the date adjacent to the seal.

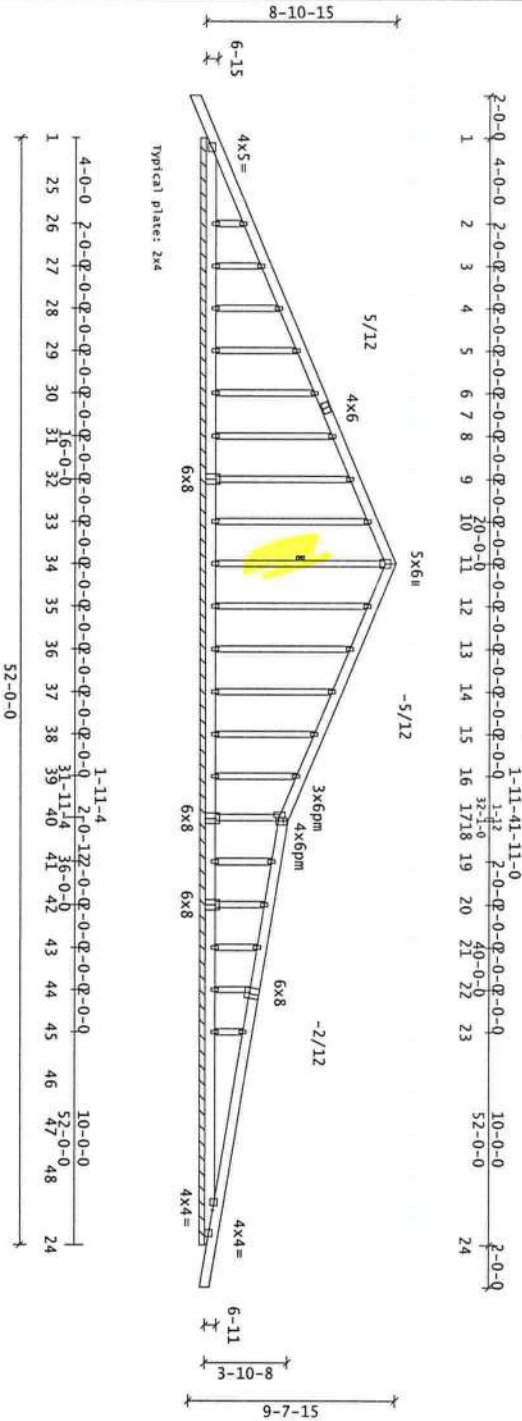
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

**SIMPSON**  
Component Solutions  
Truss Studio V

# Strong-Tie

EnqDwg: 2021r5RGT Enq





Code/Design: FBC-2020/TPI-2014		Snow Load Specs		Wind Load Specs		Additional Design Checks	
PSF	Live Dead	Dur Factors	ASCE7-16 Ground Snow(S <sub>g</sub> ) = N/A	ASCE7-16 Wind Speed(V) = 140 mph	10 psf Non-Concurrent BCLL:	Yes	
TC	20.0	10.0	Risk Cat: II Terrain Cat: B	Risk Cat: II Exposure Cat: B	20 psf BC Limited Storage:	Yes	
BC	0.0	10.0	Roof Exposure: Sheltered	Blstg Dims: L = 100.0 ft B = 52.0 ft	200 lb BC Accessible Ceiling:	Yes	
Total	40.0	20.0	Thermal Condition: All Others(1.0)	M.R.H(h) = 15.0 ft K <sub>zt</sub> = 1.0	300 lb TC Maintenance Load:	No	
Spacing:	2'-00-00 o.c.	1'-00-00 o.c.	Unobstructed Slippery Roof: No	Blstg Enclosure: Enclosed	2000 lb TC Safe Load:	No	
Repetitive Member Increase:	Yes	Yes	Low-Slope Minimums(M <sub>min</sub> ): No	Wind DL(psf): TC = 6.0 BC = 6.0	Unbalanced TLL:	Yes	
Green Lumber:	No	Yes	Unbalanced Snow Loads:	End Vertical Exposed: L = Yes R = Yes	Wind Uplift Reporting: ASCE7 MWFRS		
Fab Tolerance:	20% Creep (K <sub>cr</sub> ) = 2.0	No	Rain Surcharge: No Ice Dam Chk: No	CAC End Zone: 5'-02-06			
On Soffit Load:	2.0 psf						

Material Summary		Reaction Summary		Deflection Summary	
TC	2x6	ASCE7-16 React -Up- --Width- -Reqd	Max Horiz = -124 / +139 at Joint 37	TrussSpan Limit Actual(in)	Location
BC	2x4	1 05-07 526 31 52-00-00		Vert DL L/240 L/999 0.00 1-25	1-25
Web	2x4	45 42-00-00 482 96 52-00-00		Vert DL L/120 L/999 0.00 1-25	1-25
Member Forces Summary		Reactions not shown: down < 400 and up < 150		Vert CR L/180 L/999 0.00 1-25	1-25
Max CSI in TC PANEL	23 - 24	--- Reaction Summary (p1f) ---		Vert CR L/180 L/999 0.00 1-25	1-25
Max CSI in BC PANEL	1 - 23	Jnt-Jnt React -Up- --Width- -Reqd		Vert CR L/180 L/999 0.00 1-25	1-25
Max CSI in Web	33 - 10	1-24 2 52-00-00 (reduced)		Vert CR L/180 L/999 0.00 1-25	1-25
				Vert CR L/180 L/999 0.00 1-25	1-25

Loads Summary		Notes		Bracing Data Summary	
TC	1-7	This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 full and 0.00 reduced load factor.		Chords: Sheathing required or bracing indicated:	
BC	11-18	20.0 paf Live Load has been reduced for pitch(R <sub>z</sub> = 1.00) to (20.0 paf) (allowed by the selected code)		---gc---Purlins---From---To---#Rays	
Web	23-24	See Loadcase Report for loading combinations and additional details.		TC 5-10-00 -2-00-00 54-00-00 11	
				BC 8-08-00 0 52-00-00 6	
				Single: 34-11	
				Continuous Restraint Bracing Req'd	
				See BCSI-B3 3.0	

**Plate offsets (X, Y):**  
(None unless indicated below)  
Jnt17(-01-07,000,133) Lm178(00-07,-00-14),  
Jnt22(00-04,01-07) Lm224(00-11,00-12),  
Jnt23(00-04,01-07) Lm234(00-11,00-12),  
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Jnt30(00-04,01-07) Lm304(00-11,00-12),  
Jnt31(00-04,01-07) Lm314(00-11,00-12),  
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TID: 173926  
Date: 12 / 09 / 22  
Page: 1 of 1



ASCSE7-16 Ground Snow (Fg) = N/A	ASCSE7-16 Wind Speed (V) = 140 mph
Risk Cat: II Terrain Cat: B	Risk Cat: II Exposure Cat: B
Roof Exposure: Sheltered	Blizzard Dims: L = 100.0 ft. Bx = 52.0 ft.
Thermal Condition: All Others(1.0)	Blizzard Dims: L = 15.0 ft. Bx = 1.0
Wind Direction: Sheltered	Wind Direction: Sheltered
Low-Slope Minimum (Fmin) = N/A	Wind Vertical Exposed: L = 6.0
Unbalanced Snow Loads: No	Wind Vertical Exposed: L = Yes R = Yes
Rain Surcharge: No Ice Dam Chk: No	Wind Uplift Reporting: ASCSE7 WMFMS
	CAC End Zone: 5-02-06

Deflection Summary			
	Limit	Actual(in)	Location
TrussSpan			
Vert L1	L/240	L/999(-0.15)	17-19
Vert DL	L/120	L/999(-0.15)	17-19

HOZ L1	0.75in	( 0.04)	@Jt24
HOZ CR	1.25in	( 0.07)	@Jt24

Ohng CR 2L/180 2L/999(-0.02) 15-15

Chords; Sheathing required or bracing

```

-----Fuelins-----
-----From-----To-----
Have

```

BC	7-04-00	0	52-00-00	8
----	---------	---	----------	---

Plate offsets (X, Y):

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jnc13(00-04,01-08), jnc15(01-03,-00-03),
jnc15(-04-11-00-12), jnc21(0-01-08)

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NEW YORK

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**SIMPSON**  
Component Solutions  
Truss Studio V  
2022.3.1.2

EngDwg: 2021-5RGT\_Eng

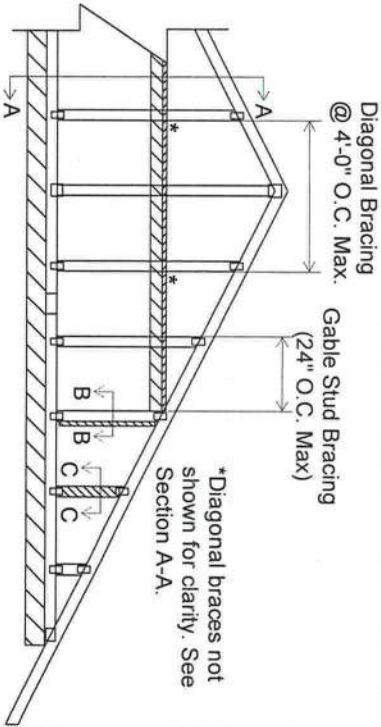






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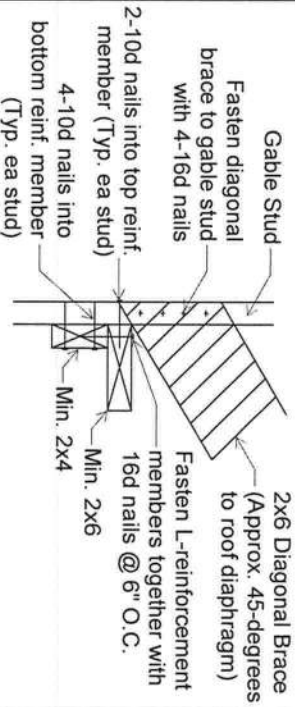
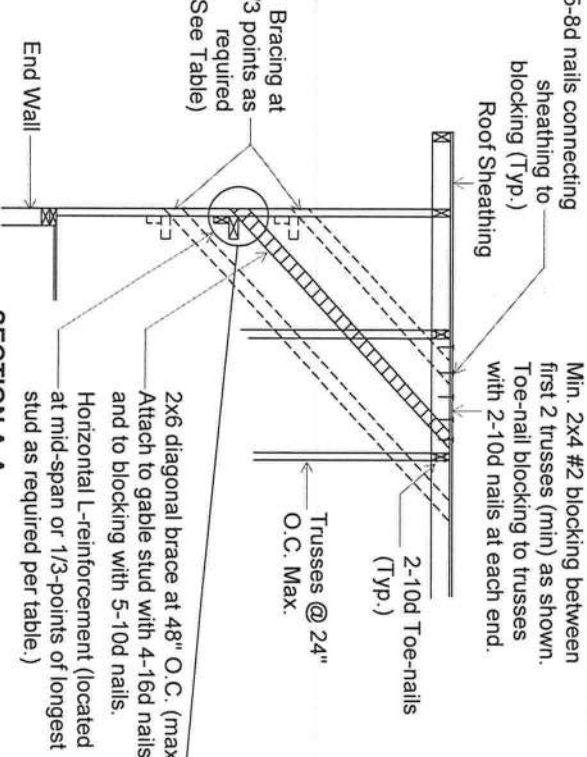
1. This detail provides bracing/reinforcement options for the gable studs to resist the out-of-plane wind loading. Refer to the individual truss design drawing for bracing/reinforcement requirements for resisting the vertical (in-plane) loads assumed in the design of the gable end frame. Additional bracing/reinforcement at the end of the building and/or at the gable end wall may be required. Refer to the Building Designer/Construction Documents. For additional information, see BCS1-B3.
2. This detail does not apply to structural gables.
3. Connection requirements between the gable end frame and the wall to be specified by the Building Designer.
4. The gable end frame must match the profile of the adjacent trusses. Do not use a gable end frame with a flat bottom chord next to trusses with sloped bottom chords, such as scissor or vaulted trusses.



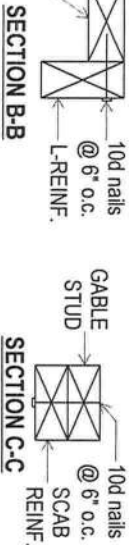
GABLE END WITH STUD BRACING/REINFORCEMENT

MINIMUM GABLE STUD SIZE, SPECIES & GRADE	MAX. GABLE STUD SPACING	WITHOUT BRACE	L- REINFORCEMENT	SCAB REINFORCEMENT <sup>1</sup>	DIAGONAL BRACING @ MID-SPAN <sup>2</sup>	DIAGONAL BRACING @ 1/3 POINTS <sup>2</sup>
2X4 SPF STUD or STANDARD	12" O.C.	4-6-0	7-11-4	9-0-4	9-0-4	13-6-8
	16" O.C.	4-1-0	7-0-4	8-2-4	8-2-4	12-3-8
	24" O.C.	3-5-8	5-8-12	6-11-0	6-11-0	10-4-8

1. L- and Scab Reinforcements shall be minimum 2x4 stud grade and must be a minimum of 90% of the gable stud length. Fasten the reinforcement member to the gable stud with 10d nails @ 6" o.c.
2. Attach horizontal reinforcing member at mid-span (or 1/3 points as required) of the longest stud and install diagonal bracing @ 4' o.c. (max) as shown in Section A-A.
3. Tabulated maximum stud lengths are based on components and cladding wind pressures using the wind design parameters listed in the detail limitations. Gable stud deflection criteria is U/240.



NOTE: Diagonal braces over 6'-3" require a 2x4 T-brace attached to one narrow edge. Diagonal braces over 12'-6" require 2x4s attached on both narrow edges. The braces must cover 90% of the diagonal brace and shall be fastened to the narrow edge with 10d nails at 6" o.c. (min. 3" end distance). When attached on both narrow edges, stagger the nails on each side by 3".



DETAIL LIMITATIONS:

Max. Mean Roof Height: 30'

Category: II

Exposure: B or C

Load Duration Factor: 1.6

Wind Speed: 110 mph Nominal

Wind Speed Equivalent		Nail Dimension
Nominal	(Ultimate)	
110 mph	(140 mph)	16d = 3.5" x 0.162"
		10d = 3" x 0.148"
		8d = 2.5" x 0.131"




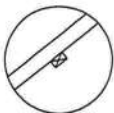
COA #30003  
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This detail is to be used only for the application and conditions indicated herein, and its suitability for any particular truss project shall be verified (by others). This detail is not intended to supersede any project-specific details provided in the Construction Documents. Truss configurations shown are for illustration only. Refer to the truss design drawing(s) accompanying this detail for specific truss design information. Simpson Strong-Tie Inc. is not responsible for any deviations from this design.

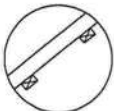


NOTES:

1. This detail provides web reinforcement options that may be used as an alternative to continuous lateral restraint (CLR) when installing CLRs in combination with diagonal bracing is not practical or desired.
2. Refer to the truss design drawing for web lateral restraint requirements. A  on the truss design drawing indicates that continuous lateral restraint is required at the locations shown (either at the midpoint or 1/3-points of the web member). Refer to the tables below for acceptable web reinforcement options that may be used in place of one or two rows of CLR.
3. This detail may not be used to substitute CLRs for T-, L-, I- or scab reinforcements that are specified on the truss design drawing.
4. T-, L-, I- and scab web reinforcements must be the same or better species and grade of the web member as indicated on the truss design drawing.
5. All reinforcements must extend to within 6" of each end of the web member.
6. This detail does not apply to single-ply webs that exceed 14' in length.



1 Row of CLR @  
Web Mid-point



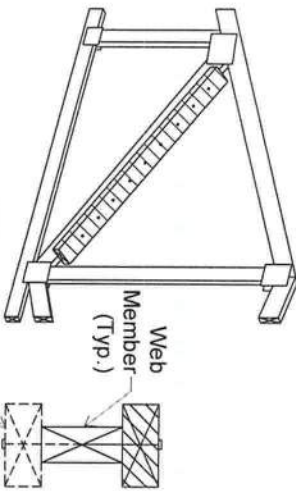
2 Rows of CLRs  
@ Web 1/3 points

WEB REINFORCEMENT OPTIONS FOR SINGLE-PLY TRUSSES <sup>1</sup>					
Specified Web Member Lateral Restraint (CLRs)	Web Member Size	Acceptable Web Reinforcement Substitutions - Type & Size			Reinforcement-to-Web Connection Requirements
		T-	L-	Scab	
1 Row @ Mid-point	2x4	2x4	2x4	2x4	16d gun nails @ 6" on-center
	2x6	2x6	2x6	2x6	
	2x8	2x8	2x8	2x8	
2 Row @ 1/3-points	2x4	No substitutions allowed			2-2x4
	2x6				
	2x8	No substitutions allowed			2-2x6

WEB REINFORCEMENT OPTIONS FOR 2-PLY TRUSSES <sup>2</sup>					
Specified Web Member Lateral Restraint (CLRs)	Web Member Size	Acceptable Web Reinforcement Substitutions - Type & Size			Reinforcement-to-Web Connection Requirements
		T-	L-	Scab	
1 Row @ Mid-point	2x4	2x4	2x4	---	16d gun nails @ 6" on-center
	2x6	2x6	2x6	---	
	2x8	2x8	2x8	---	
2 Row @ 1/3-points	2x4	No substitutions allowed			2-2x4
	2x6				
	2x8	No substitutions allowed			2-2x6

1. The maximum allowable web length for single-ply trusses is 14'.
2. For 2-ply trusses, the reinforcement must be nailed to both plies of the web with the nailing pattern specified in the table.
3. For the scab reinforcement, 2 rows of 10d gun nails @ 6" o.c may be used in place of 16d gun nails for attaching the reinforcement to the web.
4. For L-reinforcement, attach each 2x\_ member to opposite edges of the web using the nailing pattern specified in the table.

**Nail Dimension**  
16d = 3.5" x 0.131"  
10d = 3" x 0.120"

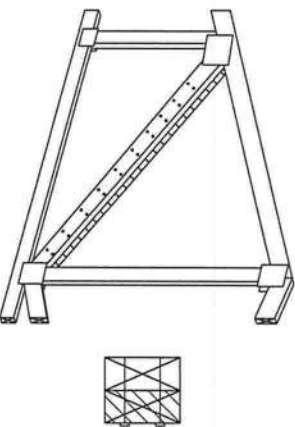


Add member to both edges for I-Reinforcement

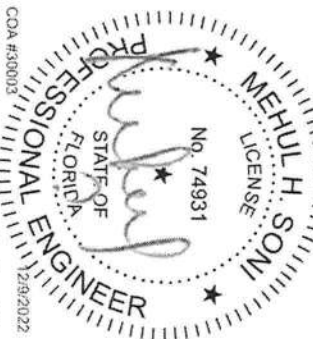
**T-Reinforcement**  
(I-Reinforcement similar)



L-Reinforcement



Scab Reinforcement

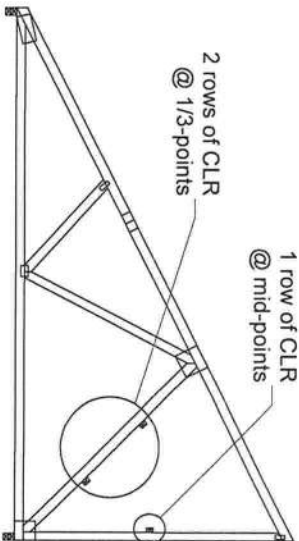


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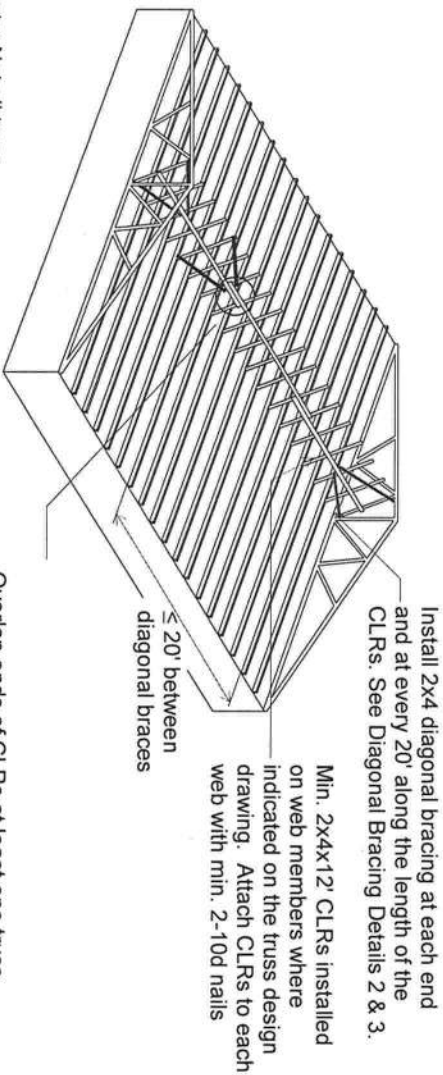
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This detail provides information for laterally restraining and bracing web members to prevent lateral buckling using continuous lateral restraints (CLRs) in combination with diagonal bracing. In addition to the CLRs indicated on the truss design drawing, diagonal bracing must be installed as indicated in this detail and BSCI-B3. See WEBREINFORCE for web reinforcement options that may be used as an alternative to this detail when installing CLRs and diagonal bracing is not practical or desired. Properly attached full-length sheathing satisfies (may replace) any bracing requirements specified for end vertical webs. Refer to the Construction Documents for additional bracing requirements. For trusses with spacing greater than 2' o.c., refer to BCSI-B10.



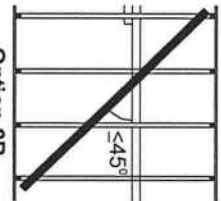
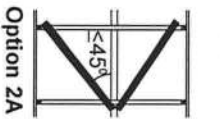
WEB MEMBERS WITH LATERAL RESTRAINT



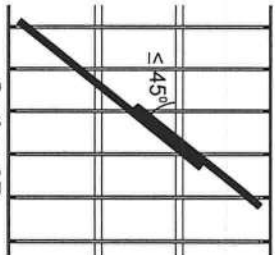
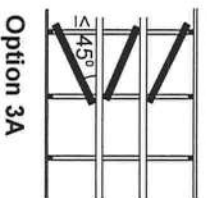
Note: Not all truss members shown for clarity.

Overlap ends of CLRs at least one truss spacing or use splice detail (see Detail 1)

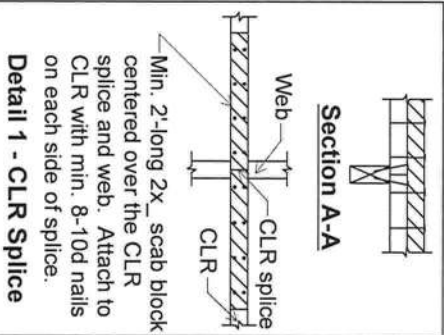
For webs with one row of CLRs, diagonal bracing shall be installed using Option 2A or 2B. Attach diagonal braces to each truss with min. 2-10d nails.



Detail 2 - Diagonal Bracing for 1 Row of CLRs



Detail 3 - Diagonal Bracing for 2 Rows of CLRs

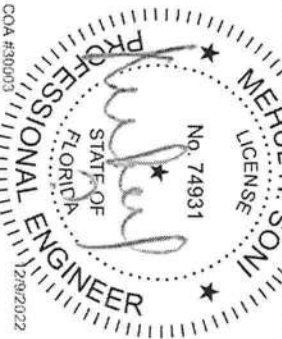


Detail 1 - CLR Splice

Nail Dimensions:  
10d = 3" x 0.128"

DETAIL LIMITATIONS:

1. Restraint and Bracing Material min. 2x4 stress graded lumber.
2. This detail does not address permanent building stability bracing to resist lateral forces acting on the building.
3. This detail shall not supersede any project-specific truss member permanent bracing design for the roof framing structural system.
4. This detail is not applicable for trusses with spacing greater than 2' o.c.



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signed and sealed and the signature must be verified  
on any electronic copies.

This detail is to be used only for the application and conditions indicated herein, and its suitability for any particular truss project shall be verified (by others). This detail is not intended to supersede any project-specific details provided in the Construction Documents. Truss configurations shown are for illustration only. Refer to the truss design drawing(s) accompanying this detail for specific truss design information. Simpson Strong-Tie Inc. is not responsible for any deviations from this design.



Florida Building Code, Energy Conservation  
Residential Building Thermal Envelope Approach  
R-Value Computation Method  
Florida Climate Zone

FORM R402-2017

Scope: Compliance with Section R402.1.2 of the Florida Building Code, Energy Conservation, shall be demonstrated by the use of Form R402 for single- and multiple-family residences of three stories or less in height, additions to existing residential buildings, alterations, renovations, and building systems in existing buildings, as applicable. To comply, a building must meet or exceed all of the energy efficiency requirements on Table R402A and all applicable mandatory requirements summarized in Table R402B of this form. If a building does not comply with this method, or by the UA Alternative method, it may still comply under Section R405 of the Florida Building Code, Energy Conservation.

PROJECT NAME:	Larry Fleming	BUILDER:	Dion Taylor Construction Inc.
AND ADDRESS:	331 NW Gables GLN	PERMITTING OFFICE:	
	Lake City, Fla. 32055	JURISDICTION NUMBER:	
OWNER:	Larry Fleming	PERMIT NUMBER:	

General Instructions: 1. Fill in all the applicable spaces of the "To Be Installed" column on Table R402A with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.

2. Complete page 1 based on the "To Be Installed" column information.

3. Read the requirements of Table R402B and check each box to indicate your intent to comply with all applicable items.

4. Read, sign and date the "Prepared By" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.

1. New construction, addition, or existing building
2. Single-family detached or multiple-family attached
3. If multiple-family, number of units covered by this submission
4. Is this a worst case? (yes/no)
5. Conditioned floor area (sq. ft.)
6. Windows type and area:
  - a) U-factor:
  - b) Solar Heat Gain Coefficient (SHGC):
  - c) Area:

7. Skylights, type and area:
  - a) U-factor:
  - b) Solar Heat Gain Coefficient (SHGC):
  - c) Skylight area:

8. Floor type, area or perimeter, and insulation:(Total exposed area = 0 sqft)
  - a) Slab-on-grade (R-value)
  - b) Wood, raised (R-value)
  - c) Wood, common (R-value)
  - d) Concrete, raised (R-value)
  - e) Concrete, common (R-value)

9. Wall type, area and insulation:(Total exposed area = 0 sqft)
  - a) Exterior:
    1. Wood frame (Insulation R-value)
    2. Masonry (Insulation R-value)
  - b) Adjacent:
    1. Wood frame (Insulation R-value)
    2. Masonry (Insulation R-value)

10. Ceiling type, area and insulation:(Total exposed area = 0 sqft)
  - a) Attic (Insulation R-value)
  - b) Single assembly (Insulation R-value)

11. Air distribution system:
  - a) Duct location, insulation
  - b) AHU location
  - c) Total Duct Leakage, Test report attached

12. Cooling system:
  - a) type:
  - b) efficiency

13. Heating system:
  - a) type:
  - b) efficiency

14. HVAC sizing calculation: attached
15. Water heating system:
  - a) type
  - b) efficiency

I hereby certify that the plans and specifications covered by this form are in compliance with the Florida Building Code, Energy Conservation, PREPARED BY: Dion Taylor Date 02/20/2023	Review of plans and specifications covered by this form indicate compliance with the Florida Building Code, Energy Conservation Before construction is complete, this building will be inspected for compliance in accordance with Section 553.908, F.S.
OWNER/AGENT: Date 02/20/2023	CODE OFFICIAL: Date

DATE: / /



Design Indoor Cooling Temp. : 75 °F

Design Outdoor Cooling Temp. : 92 °F

Temp. Difference Cooling :17°F

Indoor Humidity: 50 ▾

Crisis difference: 54

Larry Fleming

331 NW Gables Glen

Area: Gainesville Airport, FL

Front Door Orientation: South ▾

Design Indoor Heating Temp. : 70 °F

Design Outdoor Heating Temp. : 33 °F

Temp. Difference Heating :37°F

Block Load ▾

Whole House Block Load

TD/Cool:17°F Heat:17°F		Sq. Ft. -types 1 and 2		shading		Sq. Ft. -types 1 and 2		shading		Sq. Ft. -types 1 and 2				Sq. Ft.	
Outside Wall: North	1: 630	2:		Windows →	1: 21	2:		Glass Doors x	1: 96	2:		Doors			
Outside Wall: South	1: 630	2:		Windows L ▾	1: 60	2:		Glass Doors L ▾	1:		2:		Doors	24	
Outside Wall: E & W	1: 360	2: 360		Windows L ▾	1: 36	2:		Glass Doors L ▾	1:		2:		Doors	24	
Outside Wall: NE & NW	1:	2:		Windows →	1:	2:		Glass Doors x	1:		2:		Doors		
Outside Wall: SE & SW	1:	2:		Windows L ▾	1:	2:		Glass Doors L ▾	1:		2:		Doors		
Floor - (linear ft. if slab)	1: 220	2:		Ceiling	1: 2800	2:		Appliances 4			Fireplaces 0 ▾				
Sky Lights	N:	S:		E-W:		NE-NW:		SE-SW:							
Number of People	5			Conditioned Sq. Ft.	2800			Cubic Ft.	25200						

Basement	Above grade: Walls	Cubic Ft.	Below grade: walls	Floor	sq. ft. width 23ft. or ▾ below: 2 ft. ▾
Fresh air recommended: 10 cfm → CFM					
Calculate Load		Total Btu's Cooling	Sensible Load		Latent Load
		27390	24462		2928
					Total Btu's Heating
					32677

Change State

Change City

Clear Data

Print

Comments

Change Structures

Calculator

Size Equipment

Help

Save Work



Btu breakdown

	Sensible	Latent	Heating
walls	2906		4576
windows	4165		3766
ceilings	4659		3315
doors	806		1066
Floors	0		11054
appliances	4800		
people	1150	1000	
glass doors	2131		2451
skylights	0		0
basement walls	0		0
basement floor	0		0
infiltration	864	1696	3761
fresh air	0	0	
duct load	2980	232	2689
Totals	24462	2928	32677

Structure types

- Outside Walls 1: Siding or Stucco R13 insulation
- Outside Walls 2:
- Windows 1: double pane no internal shade
- Windows 2:
- Glass Doors 1: double pane glass door
- Glass Doors 2:
- Floors 1: Concrete slab no edge insulation
- Floor 2:
- Ceiling 1: Ceiling under attic space R-30
- Ceiling 2:
- Doors: Metal
- Skylights:
- Basement Walls:
- Basement Floor:
- Win ht.: 6'0" Overhang: 2' Top to overhang: 1'



TABLE 402A

BUILDING COMPONENT	PERFORMANCE CRITERIA <sup>1</sup>	INSTALLED VALUES:
Windows (see Note 2):	U-Factor ≤ 0.65 SHGC = 0.30 % of CFA ≤ 20%	U-Factor = SHGC = % of CFA =
Skylights	U-Factor ≤ 0.75	U-Factor =
Doors: Exterior door U-Factor	U-Factor ≤ 0.65	U-Factor =
Floors: Slab-on-grade Over unconditioned spaces (see Note 3)	No requirement	R-Value =
Walls – Ext. and Adj. (see Note 3):		
Frame	R-13	R-Value =
Mass (see Note 3)		R-Value =
Interior of wall:	R-7.8	R-Value =
Exterior of wall:	R-6	
Ceilings (see Notes 3 & 4)		
Reflectance	R=30 0.25	R-Value = Reflectance =  Test report Attached? Yes/No
Air distribution system (see Note 4) Ductwork & air handling unit: Unconditioned space Conditioned space	Not allowed R-value ≥ 6 On ≤ 0.03	Location: R-Value = On =  Test report Attached? Yes/No
Duct R-value Air leakage On	SEER = 13.0 On ≤ 0.03	SEER =
Air conditioning systems (see Note 5)		
Heating system	SEER = 13.0	SEER =
Heat pump (see Note 5)	HSPF = 7.7	HSPF =
Cooling: Heating:	AFUE 78%	AFUE =
Gas furnace	AFUE 78%	AFUE =
Oil furnace		
Electric resistance: Not allowed (see Note 5)		
Water heating system (storage type)		
Electric (see Note 6):	40 gal: EF = 0.92 50 gal: EF = 0.90 40 gal: EF = 0.59 50 gal: EF = 0.58	Gallons = EF = Gallons = EF =
Gas fired (see Note 7):		
Other (describe):		

- (1) Each component present in the As Proposed home must meet or exceed each of the applicable performance criteria in order to comply with this code using this method; otherwise Section 405 compliance must be used.
- (2) Windows and doors qualifying as glazed fenestration areas must comply with both the maximum U-Factor and the maximum SHGC (solar Heat Gain Coefficient) criteria and have a maximum total window area equal to or less than 20% of the conditioned floor area (CFA); otherwise Section 405 must be used for compliance.
- Exception: Additions of 600 square feet (56 m<sup>2</sup>) or less may have a maximum glass to CFA of 50 percent.
- (3) R-values are for insulation material only as applied in accordance with manufacturers' installation instructions. For mass walls, the "interior of wall" requirement must be met except if at least 50% of the R-6 insulation required for the "exterior of wall" is installed exterior of, or integral to, the wall.
- (4) Ducts & AHU installed substantially leak free per Section 403.2.2.1. Test by Class 1 BERS rater required.
- Exception: Ducts installed onto an existing air distribution system as part of an addition or renovation; duct must be R-6 installed per Sec. 503.2.7.2.
- (5) For all conventional units with capacities greater than 30,000 Btu/hr. For other types of equipment, see Tables 503.2.3(1-8).
- Exception: The prohibition on electric resistance heat does not apply to additions, renovations and new heating systems installed in existing buildings.
- (6) For other electric storage volumes, minimum EF = 0.97-(0.00132 x volume).
- (7) For other natural gas storage volumes, minimum EF = 0.67-(0.0019 x volume).

TABLE 402B MANDATORY REQUIREMENTS		
COMPONENTS	SECTION	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 chm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air.
Ceilings/knee walls	405.2.1	R-19 space permitting.
Programmable thermostat	403.1.1	Where forced-air furnace is primary system, programmable thermostat is required.
Air distribution system	403.2	Ducts in attics or on roofs insulated to R-8; other ducts R-6. Ducts tested to Q <sub>a</sub> = 0.03 by a Class 1 BERS rater.
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.
Swimming pool & spas	403.9	Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Offliner switch required. Gas heaters minimum thermal efficiency = 78% (82% after 4/16/13). Heat pump pool heaters minimum COP = 4.0.
Cooling/heating equipment	403.6	String calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.
Lighting equipment	404.1	At least 50% of permanently installed lighting fixtures shall be high-efficacy lamps.



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Product Approval Menu > Product or Application Search > Application List > Application Detail

FL #  
Application Type  
Code Version  
Application Status

Comments  
Archived

Product Manufacturer  
Address/Phone/Email

Custom Window Systems Inc.  
1900 SW 44th Avenue  
Ocala, FL 34474  
(352) 368-6922  
certifications@cws.cc

Authorized Signature  
Jay Lathrop  
jlathrop@cws.cc

Technical Representative  
Address/Phone/Email

Jay Lathrop  
1900 SW 44th Ave  
Ocala, FL 34474  
(352) 368-6922 Ext 291  
jlathrop@cws.cc

Quality Assurance Representative  
Address/Phone/Email

Jay Lathrop  
1900 SW 44th Ave.  
Ocala, FL 34474  
(352) 368-6922 Ext 291  
jlathrop@cws.cc

Category  
Subcategory

Exterior Doors  
Swinging Exterior Door Assemblies

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer  
☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report  
Florida License  
Quality Assurance Entity  
Quality Assurance Contract Expiration Date  
Validated By

Lucas A. Turner  
PE-58201  
Keystone Certifications, Inc.  
07/21/2028  
Steven M. Ulrich, PE  
☒ Validation Checklist - Hardcopy Received

Certificate of Independence

FL161 R7 COL EvalReport176G.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM E283	2004
ASTM E330	2002
ASTM E331	2009

Equivalence of Product Standards  
Certified By



As required by Florida Statute 553.942 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](http://www.floridabuilding.org)

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>			
A. SWINGING	MASONITE	INSWING & OUTSWING FIBERGLASS	FL-8228-R7
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
<b>2. WINDOWS</b>			
A. SINGLE/DOUBLE HUNG	MI	ALUMINUM 185 SINGLE HUNG	FL-17499
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING	JAMES HARDIE	CEMENT BOARD LAP SIDING	FL-13192-R2
B. SOFFITS	KAYCAN	VINYL/PVC & ALUMINUM SOFFIT	FL-16503
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES	CERTAINTED	ASPHALT SHINGLES	FL-5444
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
<b>5. STRUCTURAL COMPONENTS</b>			
A. WOOD CONNECTORS	SIMPSON	LSTA-MSTA,SPH4	FL-13872-R2
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS	GAF	TIGER PAW UNDERLAYMENT	FL-10626-R19
<b>6. NEW EXTERIOR ENVELOPE PRODUCTS</b>			

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.

Dion Taylor

01/17/2023

Contractor OR Agent Signature

Date

NOTES: