Columbia County New Building Permit Application

For Office Use Only Application # 64388 Date Received _____ By _____ Permit # _____

Zoning Official _____ Date _____ Flood Zone _____ Land Use _____ Zoning _____

FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner _____ Date _____

Comments _____

□ NOC □ EH □ 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

Septic Permit No. _____ OR City Water Fax _____

Applicant (Who will sign/pickup the permit) Teresa Strawder Phone (352) 345-6773

Address 1204 S.E. 20th St. Gainesville, FL 32641

Owners Name Mack Strawder Phone (386) 365-8039

911 Address 504 S.W. Phoenix Glen Fort White, FL 32038

Contractors Name _____ Phone _____

Address _____

Contractor Email TeresaStrawder123@gmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address _____

Mortgage Lenders Name & Address _____

Circle the correct power company – FL Power & Light – (Clay Elec.) – Suwannee Valley Elec. – Duke Energy

Property ID Number _____ Estimated Construction Cost _____

Subdivision Name _____ Lot ____ Block ____ Unit ____ Phase ____

Driving Directions from a Major Road _____

Construction of Single Family Dwelling _____ Commercial OR ✓ Residential

Proposed Use/Occupancy Resident 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 Drive)

Actual Distance of Structure from Property Lines - Front 167' Side 157' Side 83' Rear 446'

Number of Stories _____ Heated Floor Area 2,124.4 Total Floor Area 603.2 Acreage 5

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

Columbia County Building Permit Application – "Owner and Contractor Signature Page"

CODES: 2020 Florida Building Code 7th Edition and the 2017 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.

Mack Strawder
Printed Owners Name

Mack Strawder
Owners Signature

****Property owners must sign here before any permit will be 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 _____
Columbia County
Competency Card Number _____

Affirmed and subscribed before me the Contractor by means of ___ physical presence or ___ online notarization, this _____ day of _____ 20_____, who was personally known _____ or produced ID _____

State of Florida Notary Signature (For the Contractor)

SEAL:

STATE OF FLORIDA
COUNTY OF COLUMBIA

LAND OWNER AFFIDAVIT

This is to certify that I, (We), Mac Stawder,
(Property Owners Name or State Corporation Name (include Corp Officer) as it appears on Property Appraiser)

as the owner of the below described property:

Property tax Parcel ID number _____

Subdivision (Name, Lot, Block, Phase) _____

Give my permission for Teresa Stawder to place a
(Name of person authorized to sign as owner or place a structure)

Select one: ◯ Mobile Home ◯ Travel Trailer ◯ Utility Pole Only ⊗ Single Family Home

◯ Barn ◯ Shed ◯ Garage ◯ Culvert ◯ Other (specify) _____

I (We) understand that the named person(s) above will be allowed to receive a building permit on the parcel number I (we) have listed above and this could result in an assessment for solid waste and fire protection services levied on this property.

Printed Name of Signor	Signature	Date
Mac Stawder	Mac Stawder	2-28-24

Sworn to and subscribed before me this 28 day of Feb, 2024 by

X physical presence or ____ online notarization and this (these) person(s) are personally known to me ____ or produced ID FL DL.

Neonta Anderson
Printed Name of Notary

Signature

Notary Stamp

NEONTA ANDERSON
MY COMMISSION # HH 467688
EXPIRES: November 28, 2027

Created 12/2023

Columbia County, Florida
Building Department
135 NE Hernando Avenue
Lake City, Florida 32055
Phone: 386-758-1008
www.columbiacountyfla.com

ROOFING UNDERLAYMENT AFFIDAVIT

REQUIRED FOR WALK-IN OR PAPER SUBMITTALS

Job Address: 504 S.W. Phoenix Glen

I (Print Name) Mack Strawder, as a Florida license Roofing Contractor or an Owner Builder, I understand to comply with the 2020 Florida Building Code 7th Edition underlayment requirements, I must select an option for sealing the roof deck.

The options are summarized below...

☐ **a self-adhering polymer-modified bitumen underlayment complying with ASTM D1970 applied over the entire roof.**

☐ **a minimum 4-inch wide strip of selfadhering polymer-modified bitumen complying with ASTM D1970 or a minimum 3 ¾ - inch wide strip of selfadhering flexible flashing tape complying with AAMA 711, applied over all joints in the roof decking. A felt underlayment complying with ASTM D226 Type II, ASTM D4869 Type III or IV, or ASTM D6757, or a synthetic underlayment meeting the performance requirements specified, is required to be applied over the strips/tape over the entire roof.**

☒ **two layers of felt underlayment comply ASTM 0226 Type II or ASTM D4869 Type III or IV, or two layers of a synthetic underlayment meeting the performance requirements specified, lapped and fastened as specified.**

☐ **Other (explain)** _____

_____

Contractor/Owners Signature Mack Strawder

FINAL INSPECTION & CERTIFICATE OF COMPLETION:

This completed form and photographs must be uploaded to your permit via online at the Application Submission login (link) Welcome to Columbia County Online (columbiacountyfla.com).

Clearly visible in the Photographs must be the permit number or address and must include a ruler or measuring device to confirm nail spacing and overlaps including drip edge and valley flashing.

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		
1	Two (2) complete sets of plans containing the following:					
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void					
3	**Condition space (Sq. Ft.)**	2101	**Total (Sq. Ft.) under roof** 3624	Yes ✓	No	NA

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	- ✓		
5	Dimensions of all building set backs	- ✓		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	- ✓		
7	Provide a full legal description of property.	- ✓		

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

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

Items to Include- Each Box shall be Circled as Applicable

		Yes	No	NA
8	**Plans or specifications must show compliance with FBCR Chapter 3**			

		Select From Drop down		
9	Basic wind speed (3-second gust), miles per hour	- ✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	- ✓		
11	Wind importance factor and nature of occupancy	- ✓		
12	The applicable internal pressure coefficient, Components and Cladding	- ✓		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	- ✓		

Elevations Drawing including:

14	All side views of the structure	- ✓		
15	Roof pitch	- ✓		
16	Overhang dimensions and detail with attic ventilation	- ✓		
17	Location, size and height above roof of chimneys	- ✓		
18	Location and size of skylights with Florida Product Approval	- ✓		
19	Number of stories	- 1		
20	Building height from the established grade to the roofs highest peak	- 23'-11"		

Floor Plan Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	- ✓		
22	Raised floor surfaces located more than 30 inches above the floor or grade	-	no	
23	All exterior and interior shear walls indicated	- ✓		
24	Shear wall opening shown (Windows, Doors and Garage doors)	- ✓		
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section 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.	- ✓		
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	-	no	
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

FBCR 403: Foundation Plans

Select From Drop down

30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	- ✓		
31	All posts and/or column footing including size and reinforcing	- ✓		
32	Any special support required by soil analysis such as piling.	-	✓	
33	Assumed load-bearing valve of soil _____ Pound Per Square Foot	n/a		
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	- ✓		

FBCR 506: CONCRETE SLAB ON GRADE

35	Show Vapor retarder (6mil. Polyethylene with joints overlaid 6 inches and sealed)	- ✓		
36	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	-	✓	

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**	- ✓		

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

38	Show all materials making up walls, wall height, and Block size, mortar type	- ✓		
39	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	-	✓	

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 priers	- ✓		
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	- ✓		
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

Select from Drop down

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

FBC :ROOF SYSTEMS:

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

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	- ✓		
71	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	- ✓		

ROOF ASSEMBLIES FRC Chapter 15

72	Include all materials which will make up the roof assembles covering	-		
73	Submit Florida Product Approval numbers for each component of the roof assembles 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**, *N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.*

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		Select from Drop Down		
74	Show the insulation R value for the following areas of the structure	-		
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 foundationplan	-		
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. **For structures** with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	-		
91	Appliances and HVAC equipment and disconnects	-		
92	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed **Combination arc-fault circuit interrupter,** Protection device.	-		

Notice Of Commencement:

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

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

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

Select from Drop down

93	**Building Permit Application** A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a **$15.00** application fee. The completed application with attached documents and application fee can be mailed.	- ✓		
94	**Parcel Number** The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	- ✓		
95	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058	- ✓		
96	**City of Lake City** A City Water and/or Sewer letter. Call 386-752-2031	-	✓	
97	**Toilet facilities shall be provided for all construction sites**	- ✓	✓	
98	**Town of Fort White** (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	- ✓		
99	**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 (Municode.com)	-	✓	
100	**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.	- ✓	1	
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is **$50.00**	-		
102	**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.	✓ -		
103	**911 Address:** An application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	- n/a		

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.

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # _____ JOB NAME Mack Strawder

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 ☐ Owner CC#_____	Print Name Mack Strawder Signature _____ Company Name: Owner License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C ☐ CC#_____	Print Name Mack Strawder Signature _____ Company Name: Owner License #: _____ Phone #: 3	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/ GAS ☐ CC#_____	Print Name Mack Strawder Signature _____ Company Name: Owner License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☐ CC#_____	Print Name Mack Strawder Signature _____ Company Name: Owner License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#_____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#_____	Print Name _____ Signature _____ Company Name: _____ License#: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#_____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#_____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

Ref: F.S. 440.103; ORD. 2016-30

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			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT 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.

NOTES: _____

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:

504 S.W. Phoenix Glen Fort White, FL. 32038

(Write in the address of jobsite property)

12. I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

Florida Statutes Chapter 489.503:

State law requires electrical contracting to be done by licensed electrical contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own electrical contractor even though you do not have a license. You may install electrical wiring for a farm outbuilding or a single-family or duplex residence. You may install electrical wiring in a commercial building the aggregate construction costs of which are under $75,000. The home or building must be for your own use and occupancy. It may not be built for sale or lease, unless you are completing the requirements of a building permit where the contractor listed on the permit substantially completed the project. If you sell or lease more than one building you have wired yourself within 1 year after the construction is complete, the law will presume that you built it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person as your electrical contractor. Your construction shall be done according to building codes and zoning regulations. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances.

An owner of property completing the requirements of a building permit, where the contractor listed on the permit substantially completed the project as determined by the local permitting agency, for a one-family or two family residence, townhome, accessory structure of a one-family or two-family residence or townhome or individual residential condominium unit or cooperative unit. Prior to the owner qualifying for the exemption, the owner must receive approval from the local permitting agency, and the local permitting agency must determine that the contractor substantially completed the project. An owner who qualifies for the exemption under this paragraph is not required to occupy the dwelling or unit for at least 1 year after the completion of the project.

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

(X) 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 Mack Strawder, 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: Mack Strawder Date: Dec. 20, 23
(Signature of property owner)

NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification State ID

Notary Signature [signature] Date 12-20-23 (Seal)

NOTARY PUBLIC STATE OF FLORIDA
NEONTA ANDERSON
MY COMMISSION # HH 467688
EXPIRES: November 28, 2027

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 3441817 - MACK STRAWDER

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:
Customer Info: MACK STRAWDER Project Name: Custom Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 7 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T29966490	PB01	3/3/23
2	T29966491	PB01G	3/3/23
3	T29966492	T01	3/3/23
4	T29966493	T01G	3/3/23
5	T29966494	T02	3/3/23
6	T29966495	T02G	3/3/23
7	T29966496	T03	3/3/23

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2025.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 3,2023

Job	Truss	Truss Type	Qty	Ply	MACK STRAWDER	T29966490
3441817	PB01	Piggyback	31	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Mar 3 10:02:42 2023 Page 1
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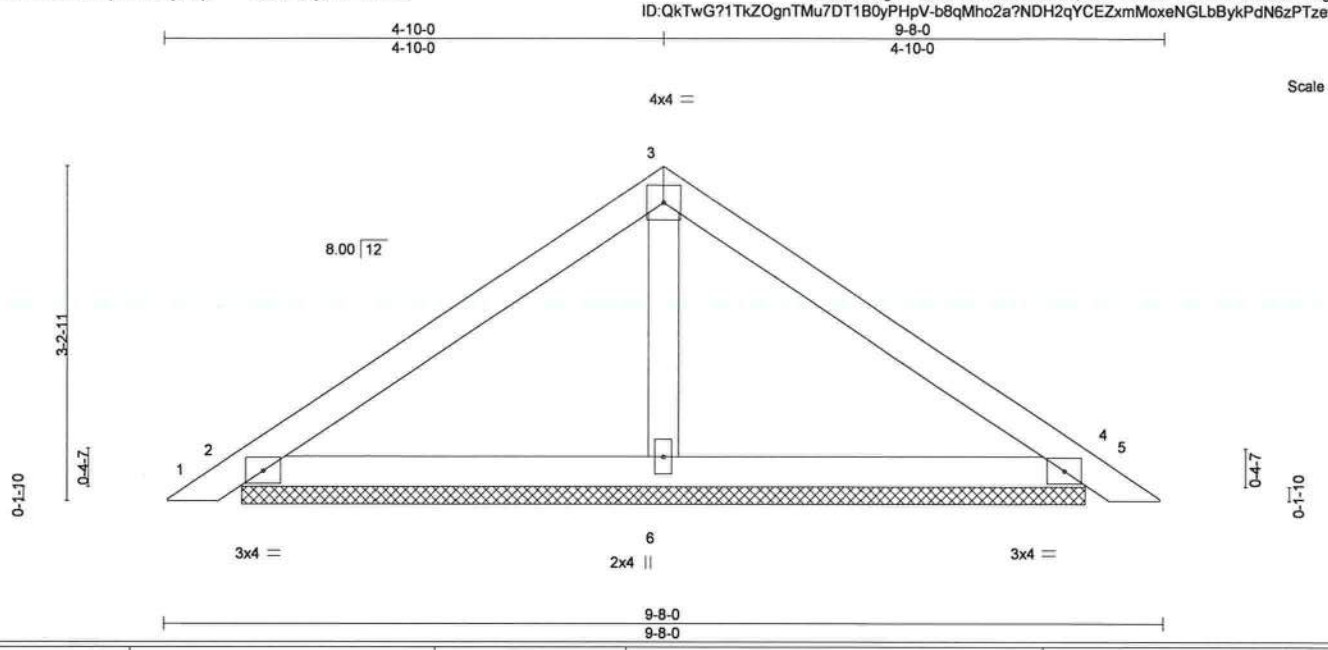

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=8-1-12, 4=8-1-12, 6=8-1-12
Max Horz 2=97(LC 11)
Max Uplift 2=-86(LC 12), 4=-99(LC 13), 6=-86(LC 12)
Max Grav 2=175(LC 1), 4=176(LC 20), 6=305(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 4-10-0, Exterior(2R) 4-10-0 to 7-10-0, Interior(1) 7-10-0 to 9-4-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 3,2023

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MACK STRAWDER	T29966491
3441817	PB01G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Mar 3 10:02:43 2023 Page 1
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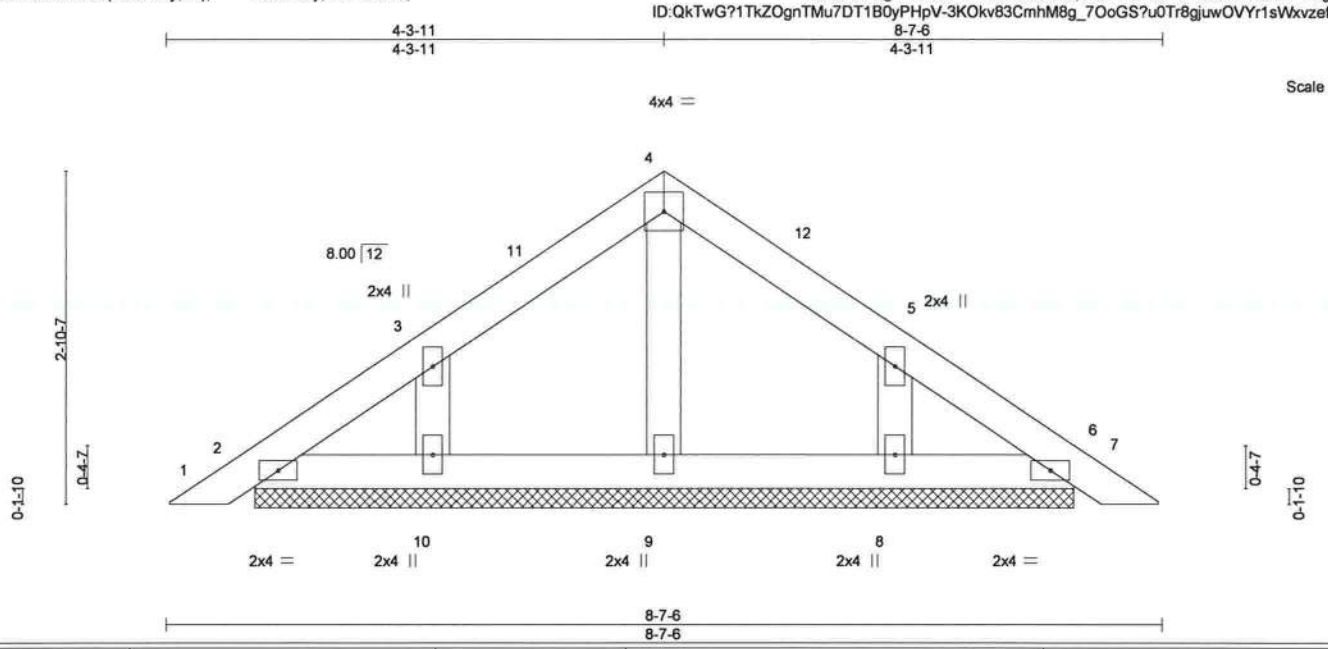

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-1-2.
(lb) - Max Horz 2=-86(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-119(LC 12), 8=-118(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-146/250

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-3-5 to 3-3-5, Exterior(2N) 3-3-5 to 4-3-11, Corner(3R) 4-3-11 to 7-3-11, Exterior(2N) 7-3-11 to 8-4-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=119, 8=118.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 3,2023

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MACK STRAWDER	T29966492
3441817	T01	Common	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Mar 3 10:02:44 2023 Page 1
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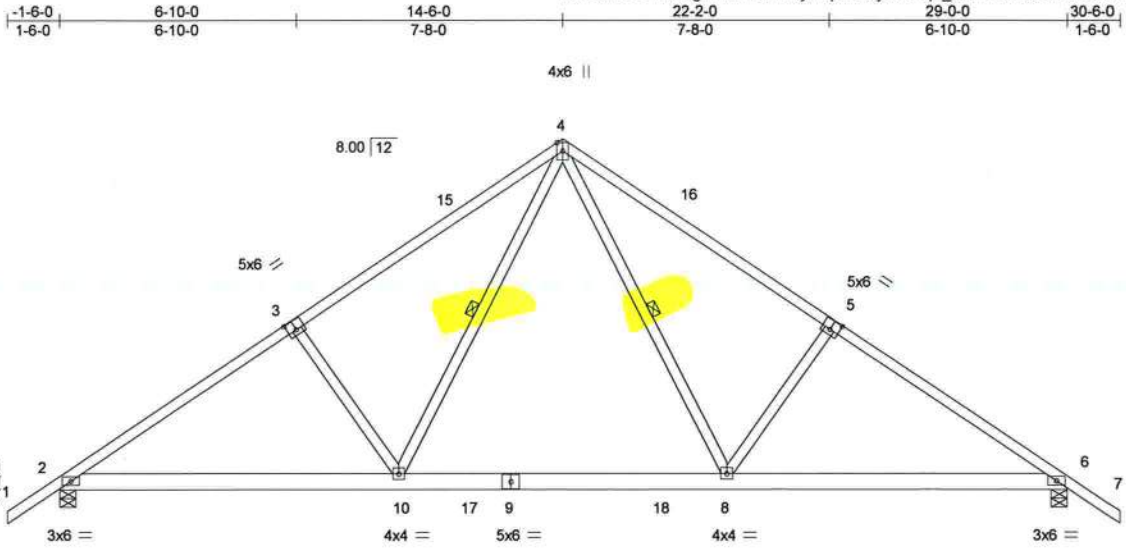

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.20	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.36	8-10	>960	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 172 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 1-3,5-7: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-3-4 oc bracing.
WEBS 1 Row at midpt 4-8, 4-10

REACTIONS. (size) 2=0-5-8, 6=0-5-8
Max Horz 2=-340(LC 10)
Max Uplift 2=-588(LC 12), 6=-588(LC 13)
Max Grav 2=1632(LC 19), 6=1632(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2379/849, 3-4=-2226/881, 4-5=-2225/881, 5-6=-2379/849
BOT CHORD 2-10=-774/2150, 8-10=-325/1377, 6-8=-559/1912
WEBS 4-8=-496/1224, 5-8=-420/411, 4-10=-496/1224, 3-10=-420/410

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 14-6-0, Exterior(2R) 14-6-0 to 17-6-0, Interior(1) 17-6-0 to 30-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=588, 6=588.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-10=-20, 8-10=-80(F=-60), 6-8=-20

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 3,2023

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MACK STRAWDER	T29966493
3441817	T01G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Mar 3 10:02:46 2023 Page 1
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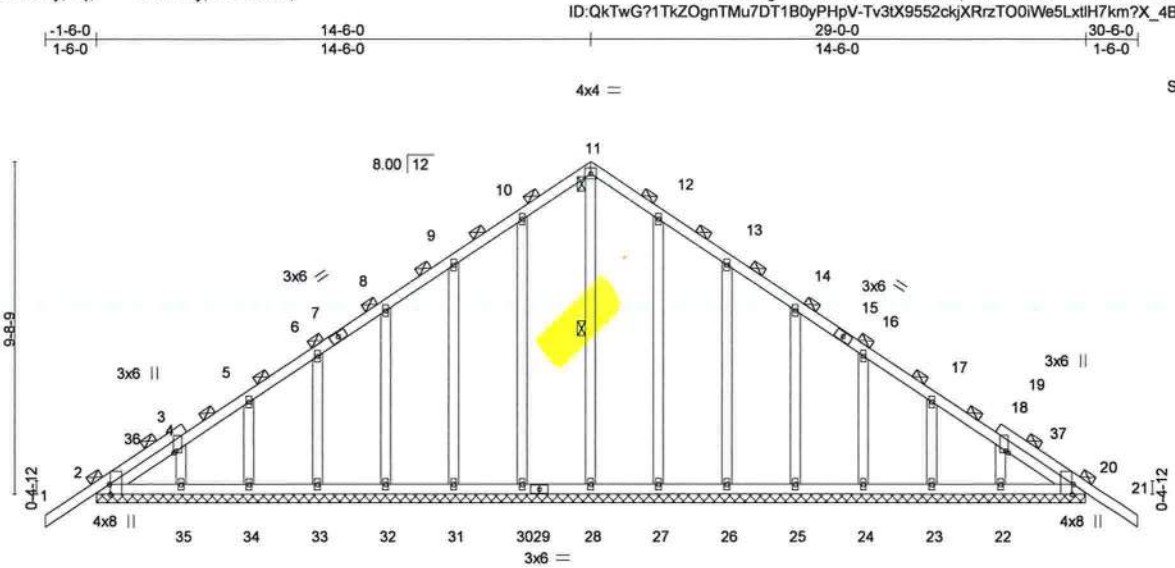

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-0-9,0-1-0], [19:0-0-9,0-1-0], [20:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.01	21	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.01	21	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 202 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-28

REACTIONS. All bearings 29-0-0.
(lb) - Max Horz 2=-328(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 35, 20 except 30=-111(LC 12), 31=-119(LC 12), 32=-114(LC 12), 33=-117(LC 12), 34=-104(LC 12), 27=-106(LC 13), 26=-121(LC 13), 25=-113(LC 13), 24=-117(LC 13), 23=-107(LC 13), 22=-101(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 28, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 20

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-276/227, 10-11=-178/298, 11-12=-178/298

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 14-6-0, Corner(3R) 14-6-0 to 17-6-0, Exterior(2N) 17-6-0 to 30-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 35, 20 except (jt=lb) 30=111, 31=119, 32=114, 33=117, 34=104, 27=106, 26=121, 25=113, 24=117, 23=107, 22=101.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 3,2023

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

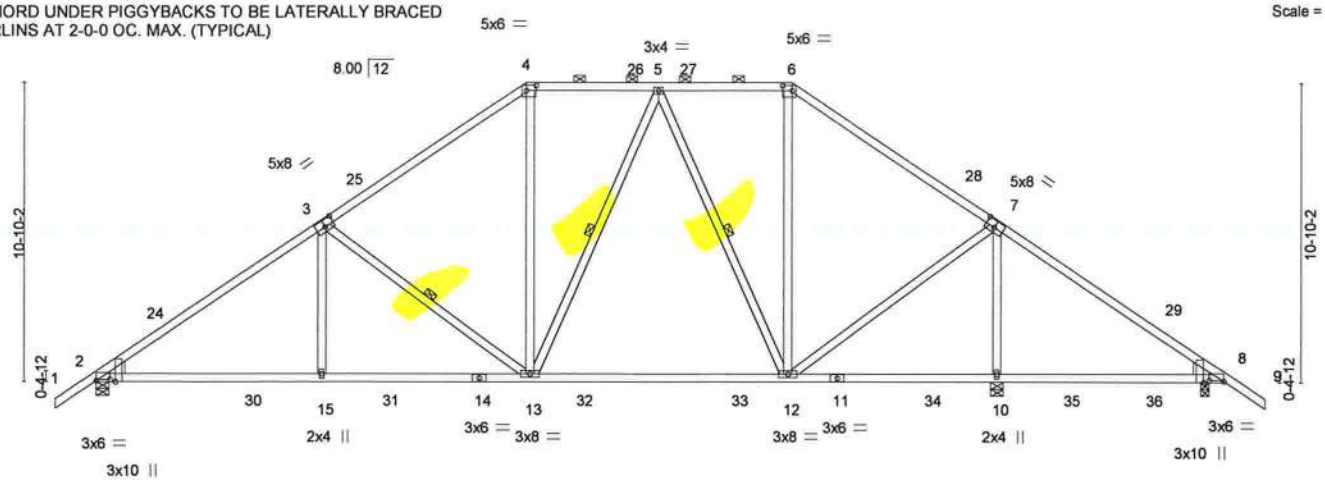
Job	Truss	Truss Type	Qty	Ply	MACK STRAWDER	T29966494
3441817	T02	Piggyback Base	19	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Mar 3 10:02:49 2023 Page 1
ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-tUl?9B8zLX6IOvaY8XZP8Hjk95XhKx0REyJr8ZzeftK

1-6-0	8-2-12	15-8-0	20-6-0	25-4-0	32-9-4	41-0-0	42-6-0
1-6-0	8-2-12	7-5-4	4-10-0	4-10-0	7-5-4	8-2-12	1-6-0

TOP CHORD UNDER PIGGYBACKS TO BE LATERALLY BRACED BY PURLINS AT 2-0-0 OC. MAX. (TYPICAL)

Scale = 1:79.5



8-2-12	15-8-0	25-4-0	32-9-4	40-6-0	41-0-0
8-2-12	7-5-4	9-8-0	7-5-4	7-8-12	0-6-0

Plate Offsets (X,Y)-- [2:0-6-0,0-0-8], [2:0-0-9,Edge], [3:0-4-0,0-3-0], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-4-0,0-3-0], [8:0-6-0,0-0-8], [8:0-0-9,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.35	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.53	12-13	>740	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 247 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins, except
2-0-0 oc purlins (5-4-14 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-13, 5-13, 5-12

REACTIONS. (size) 2=0-5-8, 10=0-5-8, 8=0-3-8
Max Horz 2=-365(LC 10)
Max Uplift 2=-554(LC 12), 10=-410(LC 12), 8=-358(LC 8)
Max Grav 2=1472(LC 19), 10=1633(LC 2), 8=530(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2048/726, 3-4=-1470/604, 4-5=-1140/596, 5-6=-844/537, 6-7=-1116/562, 7-8=-342/505
BOT CHORD 2-15=-657/1823, 13-15=-657/1821, 12-13=-322/1039, 10-12=-299/232, 8-10=-298/226
WEBS 3-15=0/393, 3-13=-825/472, 4-13=-180/518, 5-13=-148/436, 5-12=-537/313, 6-12=-144/362, 7-12=-244/879, 7-10=-1291/439

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-3, Interior(1) 2-7-3 to 15-8-0, Exterior(2R) 15-8-0 to 21-5-9, Interior(1) 21-5-9 to 25-4-0, Exterior(2R) 25-4-0 to 31-1-9, Interior(1) 31-1-9 to 42-6-0 zone; cantilever right exposed ; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=554, 10=410, 8=358.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 3,2023

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MACK STRAWDER	T29966495
3441817	T02G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Mar 3 10:02:52 2023 Page 1
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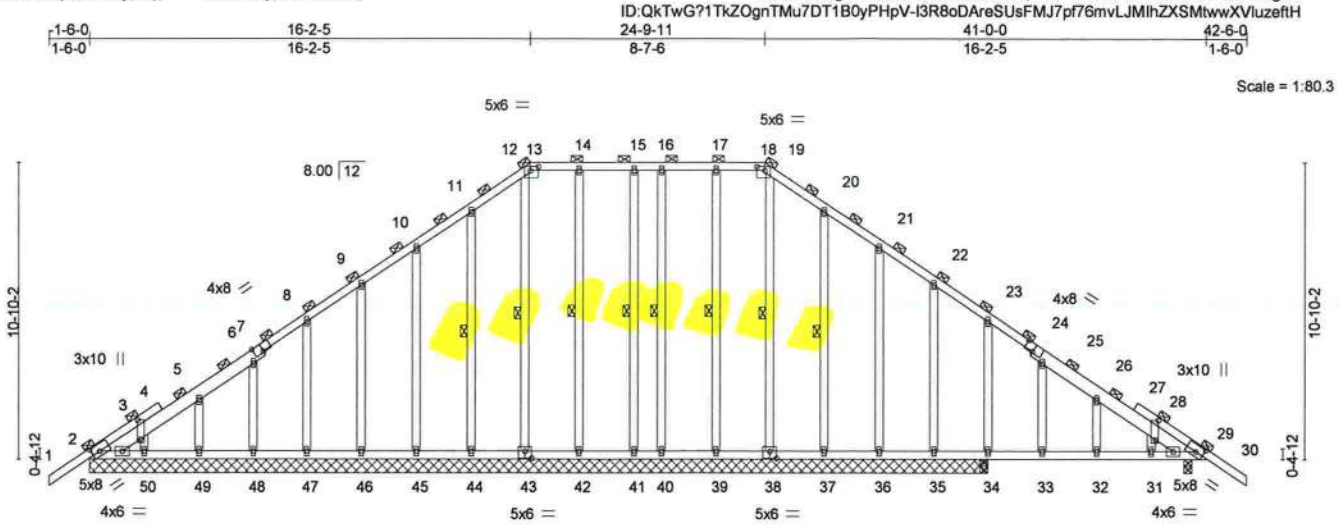

Plate Offsets (X,Y)-- [2:0-3-5,0-3-0], [3:0-8-7,0-1-4], [7:0-4-0,Edge], [13:0-3-8,0-1-12], [18:0-3-8,0-1-12], [24:0-4-0,Edge], [28:0-8-7,0-1-4], [29:0-3-5,0-3-0], [38:0-3-0,0-3-0], [43:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.14	32	>653	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	0.12	32	>766	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.02	29	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 347 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 2-7,24-29: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 20-37, 19-38, 17-39, 16-40, 11-44, 12-43, 14-42, 15-41

REACTIONS. All bearings 33-0-0 except (jt=length) 29=0-3-8.
(lb) - Max Horz 2=-365(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 39, 40, 50, 49, 43, 42, 41, 29 except 34=-425(LC 13), 36=-153(LC 13), 37=-117(LC 13), 48=-130(LC 12), 47=-116(LC 12), 46=-115(LC 12), 45=-115(LC 12), 44=-124(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 38, 39, 40, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41 except 34=568(LC 1), 34=568(LC 1), 29=318(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-343/263, 3-5=-300/254, 11-12=-149/285, 13-14=-137/254, 14-15=-137/254, 15-16=-137/254, 16-17=-137/254, 17-18=-137/254, 19-20=-149/266, 23-25=-264/171, 25-26=-282/172
BOT CHORD 2-50=-155/339, 49-50=-167/347, 48-49=-167/347, 47-48=-167/347, 46-47=-167/347, 45-46=-167/347, 44-45=-167/347, 43-44=-167/347, 42-43=-167/347, 41-42=-167/347, 40-41=-167/347, 39-40=-167/347, 38-39=-167/347, 37-38=-167/347, 36-37=-167/347, 35-36=-167/347, 34-35=-167/347, 33-34=-167/347, 32-33=-167/347, 31-32=-167/347, 29-31=-167/360
WEBS 23-34=-316/480

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 2-7-3, Exterior(2N) 2-7-3 to 16-2-5, Corner(3R) 16-2-5 to 20-0-0, Exterior(2N) 20-0-0 to 24-9-11, Corner(3R) 24-9-11 to 29-0-0, Exterior(2N) 29-0-0 to 42-6-0 zone; cantilever right exposed ; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 3,2023

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MACK STRAWDER
3441817	T02G	GABLE	2	1	T29966495
					Job Reference (optional)

NOTES-

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 35, 39, 40, 50, 49, 43, 42, 41, 29 except (jt=lb) 34=425, 36=153, 37=117, 48=130, 47=116, 46=115, 45=115, 44=124.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MACK STRAWDER	T29966496
3441817	T03	Piggyback Base	12	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Mar 3 10:02:53 2023 Page 1
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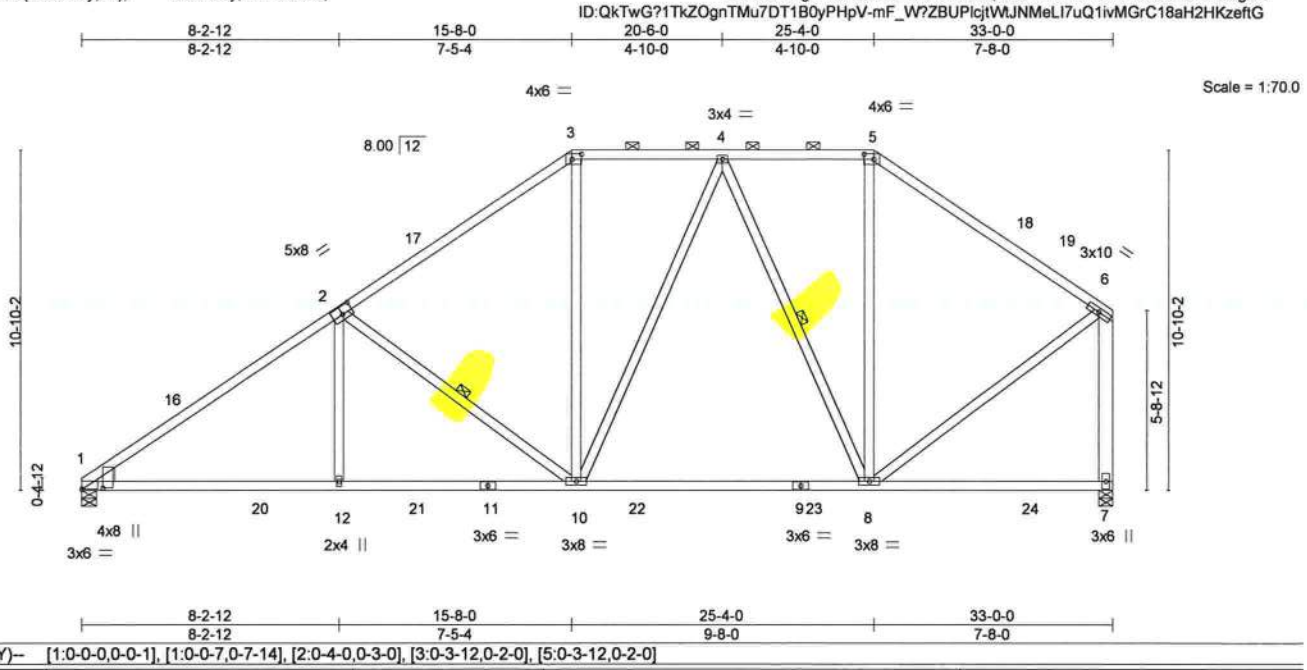

Plate Offsets (X,Y)-- [1:0-0-0,0-0-1], [1:0-0-7,0-7-14], [2:0-4-0,0-3-0], [3:0-3-12,0-2-0], [5:0-3-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.33	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.49	8-10	>795	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 219 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 5-6: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 6-7: 2x6 SP No.2
WEDGE
Left: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-7 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 2-10, 4-8

REACTIONS. (size) 1=0-5-8, 7=0-5-8
Max Horz 1=380(LC 12)
Max Uplift 1=-480(LC 12), 7=-428(LC 13)
Max Grav 1=1404(LC 19), 7=1403(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2026/699, 2-3=-1441/570, 3-4=-1115/567, 4-5=-809/409, 5-6=-1062/378, 6-7=-1271/445
BOT CHORD 1-12=-813/1778, 10-12=-813/1776, 8-10=-356/1008
WEBS 2-12=-0/397, 2-10=-836/482, 3-10=-126/502, 4-10=-173/422, 4-8=-534/313, 5-8=-85/345, 6-8=-264/954

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-3-10, Interior(1) 3-3-10 to 15-8-0, Exterior(2R) 15-8-0 to 20-6-0, Interior(1) 20-6-0 to 25-4-0, Exterior(2R) 25-4-0 to 30-0-0, Interior(1) 30-0-0 to 32-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=480, 7=428.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

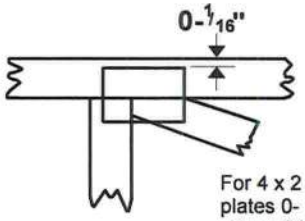
March 3,2023

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

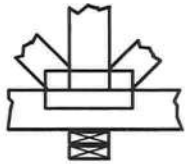
4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

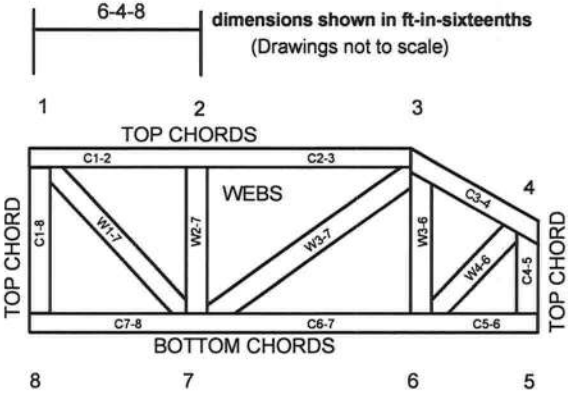


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 82

The lower the EnergyPerformance Index, the more efficient the home.

504 S.W. Phoenix Glen,Fort White,FL,32038

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Detached
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)		2097
Conditioned floor area below grade (ft²)		0

7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.47	268.50 ft²
SHGC:	SHGC=0.31	
b. U-Factor:	Dbl, U=0.49	114.67 ft²
SHGC:	SHGC=0.32	
c. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		7.596 ft
Area Weighted Average SHGC:		0.313

8. Skylights	Description	Area
U-Factor:(AVG)	N/A	N/A ft²
SHGC(AVG):	N/A	

9. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R= 0.0	2095.80 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Types(1741.5 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	1480.50 ft²
b. Frame - Wood, Adjacent	R=13.0	261.00 ft²
c. N/A		
d. N/A		

11. Ceiling Types(2097.0 sqft.)	Insulation	Area
a. Flat ceiling under att (Vented)	R=38.0	2097.00 ft²
b. N/A		
c. N/A		

12. Roof(Comp. Shingles, Vented)	Deck R=0.0	2519 ft²

13. Ducts, location & insulation level	R	ft²
a. Sup: Attic, Ret: Attic, AH: Garage	6	197
b.		
c.		

14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	45.5	SEER2:15.20

15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	45.5	HSPF2:7.80

16. Hot Water Systems	
a. Electric	Cap: 50 gallons
	EF: 0.945
b. Conservation features	
	None
17. Credits	CF, Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Columbia County Building Department — Reviewed for Code Compliance — File Copy — Plans Examiner

Builder Signature: _____ Date: _____

Address of New Home: 504 S.W. Phoenix Glen City/FL Zip: Fort White,FL,32038

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA
TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA[a]

Project Name:	504 SW Phoenix Glen	Builder Name:	Mosely Builders	
Street:	504 S.W. Phoenix Glen	Permit Office:	Columbia	
City, State, Zip:	Fort White, FL, 32038	Permit Number:		
Owner:	Mosely Builders	Jurisdiction:	221000	
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)	

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	CHECK
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids voids between fire sprinkler cover plates and walls or ceilings.		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

FORM R405-2022S

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	504 SW Phoenix Glen			Address type:	Street Address
Building Type:	User	Bedrooms:	4	Lot #:	---
Owner:	Mosely Builders	Conditioned Area:	2097	Block/SubDivision:	---
Builder Home ID:		Total Stories:	1	PlatBook:	---
Builder Name:	Mosely Builders	Worst Case:	No	Street:	504 S.W. Phoenix Glen
Permit Office:	Columbia	Rotate Angle:	0	County:	Columbia
Jurisdiction:	221000	Cross Ventilation:	No	City, State, Zip:	Fort White, FL, 32038
Family Type:	Detached	Whole House Fan:	No		
New/Existing:	New (From Plans)	Terrain:	Suburban		
Year Construct:	2023	Shielding:	Suburban		
Comment:					

CLIMATE

√	Design Location	Tmy Site	Design Temp 97.5%	Design Temp 2.5%	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily temp Range
___	FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium

BLOCKS

√	Number	Name	Area	Volume
___	1	Entire House	2097	18873 cu ft

SPACES

√	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___	1	Bedroom #3	155	1395	No	1	1	Yes	Yes	Yes
___	2	Bedroom #4	162	1458	No	1	1	Yes	Yes	Yes
___	3	Bathrm #3	50	450	No	0		No	Yes	Yes
___	4	Living Room	477	4293	No	0		Yes	Yes	Yes
___	5	Kitchen/Dining	394	3546	Yes	0		Yes	Yes	Yes
___	6	Bedroom #2	182	1638	No	1	1	Yes	Yes	Yes
___	7	Pantry	40	360	No	0		No	Yes	Yes
___	8	Bathrm #2	44	396	No	0		No	Yes	Yes
___	9	Laundry	81	729	No	0		Yes	Yes	Yes
___	10	Office	132	1188	No	0		Yes	Yes	Yes
___	11	Mstr Bathrm	128	1152	No	0		Yes	Yes	Yes
___	12	Mstr WIC	67	603	No	0		Yes	Yes	Yes
___	13	Mstr Bedroom	185	1665	No	2	1	Yes	Yes	Yes

FLOORS (Total Exposed Area = 2096 sq.ft.)

√	#	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___	1	Slab-On-Grade Edge Ins	Bedroom #3	25	0	155.3 ft	0.473	---	0.00	1.00	0.00
___	2	Slab-On-Grade Edge Ins	Bedroom #4	25.5	0	162 ft	0.473	---	0.00	1.00	0.00
___	3	Slab-On-Grade Edge Ins	Bathrm #3	5.5	0	49.5 ft	0.473	---	0.00	1.00	0.00
___	4	Slab-On-Grade Edge Ins	Living Room	26.5	0	476.5 ft	0.473	---	0.00	1.00	0.00
___	5	Slab-On-Grade Edge Ins	Kitchen/Dining	22.5	0	393.8 ft	0.473	---	0.00	1.00	0.00
___	6	Slab-On-Grade Edge Ins	Bedroom #2	14	0	182 ft	0.473	---	0.00	1.00	0.00
___	7	Slab-On-Grade Edge Ins	Pantry	1	0	40 ft	0.473	---	0.00	1.00	0.00
___	8	Slab-On-Grade Edge Ins	Bathrm #2	1	0	44 ft	0.473	---	0.00	1.00	0.00
___	9	Slab-On-Grade Edge Ins	Laundry	9.5	0	80.8 ft	0.473	---	0.00	1.00	0.00
___	10	Slab-On-Grade Edge Ins	Office	8.5	0	132.3 ft	0.473	---	0.00	1.00	0.00
___	11	Slab-On-Grade Edge Ins	Mstr Bathrm	23	0	128.3 ft	0.473	---	0.00	1.00	0.00
___	12	Slab-On-Grade Edge Ins	Mstr WIC	7	0	66.5 ft	0.473	---	0.00	1.00	0.00
___	13	Slab-On-Grade Edge Ins	Mstr Bedroom	26	0	184.8 ft	0.473	---	0.00	1.00	0.00

FORM R405-2022S

INPUT SUMMARY CHECKLIST REPORT

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Gable or Shed	Composition shingles	2519 ft²	698 ft²	Medium	N	0.9	No	0.9	No	0	33.69

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	150	2096 ft²	N	N

CEILING (Total Exposed Area = 2097 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	Bedroom #3	38.0	Blown	155.0ft²	0.049	0.10	Wood
___ 2	Flat ceiling under attic(Vented)	Bedroom #4	38.0	Blown	162.0ft²	0.049	0.10	Wood
___ 3	Flat ceiling under attic(Vented)	Bathrm #3	38.0	Blown	50.0ft²	0.049	0.10	Wood
___ 4	Flat ceiling under attic(Vented)	Living Room	38.0	Blown	477.0ft²	0.049	0.10	Wood
___ 5	Flat ceiling under attic(Vented)	Kitchen/Dining	38.0	Blown	394.0ft²	0.049	0.10	Wood
___ 6	Flat ceiling under attic(Vented)	Bedroom #2	38.0	Blown	182.0ft²	0.049	0.10	Wood
___ 7	Flat ceiling under attic(Vented)	Pantry	38.0	Blown	40.0ft²	0.049	0.10	Wood
___ 8	Flat ceiling under attic(Vented)	Bathrm #2	38.0	Blown	44.0ft²	0.049	0.10	Wood
___ 9	Flat ceiling under attic(Vented)	Laundry	38.0	Blown	81.0ft²	0.049	0.10	Wood
___ 10	Flat ceiling under attic(Vented)	Office	38.0	Blown	132.0ft²	0.049	0.10	Wood
___ 11	Flat ceiling under attic(Vented)	Mstr Bathrm	38.0	Blown	128.0ft²	0.049	0.10	Wood
___ 12	Flat ceiling under attic(Vented)	Mstr WIC	38.0	Blown	67.0ft²	0.049	0.10	Wood
___ 13	Flat ceiling under attic(Vented)	Mstr Bedroom	38.0	Blown	185.0ft²	0.049	0.10	Wood

WALLS (Total Exposed Area = 1742 sq.ft.)

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Frame - Wood	Bedroom #3	19.0	13.0	6	9.0	0	121.5	0.072	0	0.25	0.23	0 %
___ 2	W	Exterior	Frame - Wood	Bedroom #3	19.0	2.0	6	9.0	0	22.5	0.072	0	0.25	0.23	0 %
___ 3	S	Exterior	Frame - Wood	Bedroom #4	19.0	13.0	6	9.0	0	121.5	0.072	0	0.25	0.23	0 %
___ 4	W	Exterior	Frame - Wood	Bedroom #4	19.0	2.0	0	9.0	0	18.0	0.072	0	0.25	0.23	0 %
___ 5	S	Exterior	Frame - Wood	Living Room	19.0	22.0	6	9.0	0	202.5	0.072	0	0.25	0.23	0 %
___ 6	N	Exterior	Frame - Wood	Kitchen/Dining	19.0	22.0	6	9.0	0	202.5	0.072	0	0.25	0.23	0 %
___ 7	S	Exterior	Frame - Wood	Bedroom #2	19.0	14.0	0	9.0	0	126.0	0.072	0	0.25	0.23	0 %
___ 8	N	Exterior	Frame - Wood	Laundry	19.0	9.0	6	9.0	0	85.5	0.072	0	0.25	0.23	0 %
___ 9	N	Exterior	Frame - Wood	Office	19.0	8.0	6	9.0	0	76.5	0.072	0	0.25	0.23	0 %
___ 10	N	Exterior	Frame - Wood	Mstr Bathrm	19.0	9.0	6	9.0	0	85.5	0.072	0	0.25	0.23	0 %
___ 11	E	Exterior	Frame - Wood	Mstr Bathrm	19.0	13.0	6	9.0	0	121.5	0.072	0	0.25	0.23	0 %
___ 12	E	Exterior	Frame - Wood	Mstr WIC	19.0	7.0	0	9.0	0	63.0	0.072	0	0.25	0.23	0 %
___ 13	E	Exterior	Frame - Wood	Mstr Bedroom	19.0	12.0	6	9.0	0	112.5	0.072	0	0.25	0.23	0 %
___ 14	S	Exterior	Frame - Wood	Mstr Bedroom	19.0	13.0	6	9.0	0	121.5	0.072	0	0.25	0.23	0 %
___ 15	N	Garage	Frame - Wood	Living Room	13.0	29.0	0	9.0	0	261.0	0.084		0.23	0.23	0 %

DOORS (Total Exposed Area = 21 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
___ 1	N	Garage	Wood	Living Room	None	0.46	2.00	8	8.00	0	21.3ft²

FORM R405-2022S

INPUT SUMMARY CHECKLIST REPORT

WINDOWS (Total Exposed Area = 383 sq.ft.)

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen
___ 1	N	1	Vinyl	Low-E Double	Y	0.47	0.31	N	N	36.0	2	3.00	6.00	1.3	1.0	Drapes/blinds	Ex. 50%
___ 2	S	3	Vinyl	Low-E Double	Y	0.47	0.31	N	N	36.0	2	3.00	6.00	8.0	1.0	Drapes/blinds	Ex. 50%
___ 3	S	5	Vinyl	Low-E Double	Y	0.49	0.32	N	N	42.7	1	5.33	8.00	12.7	1.0	None	None
___ 4	S	5	Vinyl	Low-E Double	Y	0.47	0.31	N	N	36.0	2	3.00	6.00	12.7	1.0	Drapes/blinds	Ex. 50%
___ 5	N	6	Vinyl	Low-E Double	Y	0.49	0.32	N	N	48.0	1	6.00	8.00	12.7	1.0	None	None
___ 6	N	6	Vinyl	Low-E Double	Y	0.47	0.31	N	N	18.0	1	3.00	6.00	12.7	1.0	Drapes/blinds	Ex. 50%
___ 7	S	7	Vinyl	Low-E Double	Y	0.47	0.31	N	N	36.0	2	3.00	6.00	8.0	1.0	Drapes/blinds	Ex. 50%
___ 8	N	8	Vinyl	Low-E Double	Y	0.49	0.32	N	N	24.0	1	3.00	8.00	3.0	1.0	None	None
___ 9	N	9	Vinyl	Low-E Double	Y	0.47	0.31	N	N	18.0	1	3.00	6.00	1.3	1.0	Drapes/blinds	Ex. 50%
___ 10	N	10	Vinyl	Low-E Double	Y	0.47	0.31	N	N	12.0	1	3.00	4.00	1.3	1.0	Drapes/blinds	Ex. 50%
___ 11	E	11	Vinyl	Low-E Double	Y	0.47	0.31	N	N	20.3	1	4.50	4.50	1.3	8.0	Drapes/blinds	Ex. 50%
___ 12	E	13	Vinyl	Low-E Double	Y	0.47	0.31	N	N	20.3	1	4.50	4.50	1.3	8.0	Drapes/blinds	Ex. 50%
___ 13	S	14	Vinyl	Low-E Double	Y	0.47	0.31	N	N	36.0	2	3.00	6.00	8.0	1.0	Drapes/blinds	Ex. 50%

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00033	1802	98.88	185.64	0.1177	5.7	All	18873 cu ft

GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	600 ft²	600 ft²	70 ft	9 ft	19

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedroom #3
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedroom #4
___ 3	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bathrm #3
___ 4	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Living Room
___ 5	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Kitchen/Dining
___ 6	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedroom #2
___ 7	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Pantry
___ 8	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bathrm #2
___ 9	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Laundry
___ 10	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Office
___ 11	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bathrm
___ 12	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr WIC
___ 13	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bedroom

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump---- Entry	Power	Volt	Current	Ducts	Block
___ 1	Electric Heat Pump	Split/Single		HSPF2: 7.80	45.5		0.00	0.00	0.00	sys#1	1

FORM R405-2022S

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM

✓	#	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___	1	Central Unit	Split/Single		SEER2:15.2	45.5	1600	0.70	sys#1	1

HOT WATER SYSTEM

✓	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___	1	Electric	None	Garage	0.94 (0.93)	50.00 gal	62 gal	120 deg	Low	None	102

		Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___	1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS

✓	Duct #	Supply Location	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
___	1	Attic	6.0	197 ft²	Attic	6.0	63 ft²	Default Leakage	Garage	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y Ceiling Fans: N

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

✓	Thermostat Schedule: HERS 2006 Reference Schedule Type		Hours 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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = ____

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

1. New home or, addition
2. Single-family or multiple-family — family SINGLE
3. No. of units (if multiple-family) [#]
4. Number of Bedrooms [#] 4
5. Is this a worst case? (yes/no)
6. Conditioned floor area (sq. ft.) 2100 SQ. FT
7. Windows**

	Description	Area
a) *U*-factor: 0.40	*U*-factor:	ft² 2700
SHGC: 0.25	SHGC:	
b) *U*-factor:	[Type or N/A], U =	ft²
SHGC:	SHGC:	
c) *U*-factor:	[Type or N/A], U =	ft²
SHGC:		
d) *U*-factor:	[Type or N/A], U =	ft²
SHGC:		
Area Weighted Average Overhang Depth:		ft
Area Weighted Average SHGC: 0.25		

8. Skylights

	Description	Area
a) *U*-factor	*U*-factor:	ft²
SHGC:	SHGC:	

9. Floor type, insulation level:

	Insulation	Area
a) [Type] SLAB	R= 0	ft² 2700
b) [Type or N/A]	R=	ft²
c) [Type or N/A]	R=	ft²

10. Wall type and insulation:

	Insulation	Area
a) [Type] MASS (CONC. BLK)	R= 6	ft² 2700
b) [Type or N/A]	R=	ft²
c) [Type or N/A]	R=	ft²
d) [Type or N/A]	R=	ft²

11. Ceiling type and insulation level

	Insulation	Area
a) [Type] FLAT	R= 38	ft² 2700
b) [Type or N/A]	R=	ft²
c) [Type or N/A]	R=	ft²

12. Ducts, location & insulation level ATTIC

a) Sup: [loc.], Ret: [loc.], AH: [loc.]	R 6	ft² 2700
b) Sup, Ret, AH: [or N/A]		

13. Cooling systems:

	kBtu/hr	Efficiency
a) [Type] CENTRAL HEAT PUMP		SEER: 14.3
b) [Type or N/A]		
c) [Type or N/A]		

14. Heating systems

	kBtu/hr	Efficiency
a) [Type] HEAT PUMP	45000 Btu/h	HSPF: 8.2
b) [Type or N/A]		
c) [Type or N/A]		

15. Water heating system

a) [Type] ELECTRIC	Cap: [#] gallons	50
b) Conservation features	UEF:	0.921
Use medium draw pattern UEF provided by manufacturer.		

Credits (Performance method)

I certify that this home has complied with the *Florida Building Code, Energy Conservation*, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: 8-24-2023

Address of New Home: 504 SW PHOENIX GLN City/FL Zip: FORT WHITE, FL

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain an Energy Rating. For information about the *Florida Building Code, Energy Conservation*, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the *Florida Building Code, Energy Conservation*, if not DEFAULT.

[Date and time] [Software version and code compliance statement] [Page # of #]

FLORIDA BUILDING CODE, ENERGY CONSERVATION
Residential Building Thermal Envelope Approach
R-Value Computation Method

FORM R402—2020 (with 2022 Supplement) **Florida Climate Zone**

PROJECT NAME AND ADDRESS: HOUSE CONSTRUCTION 504 SW PHOENIX GLN FORT WHITE, FL	**BUILDER:**
	PERMITTING OFFICE:
	JURISDICTION NUMBER:
OWNER:	**PERMIT NUMBER:**
PERMIT TYPE: GEORGE STRAWDER	**NUMBER OF UNITS:**
WORST CASE?	**CONDITIONED FLOOR AREA:**

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 and applicable mandatory requirements summarized on this form. If a building does not comply with this method, or by the UA Alternative method, it may still comply under Section R405 or R406 of the *Florida Building Code, Energy Conservation.*

General Instructions:

1. **Fill in all the applicable spaces of the "INSTALLED" row in the INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT table with the information requested. All "INSTALLED" values must be equal to or more efficient than the required levels. *"AVG" indicates an area weighted* average is allowed; "LOWEST" indicates the lowest *R*-value to be installed must be entered.**
2. **Complete the tables for air infiltration and installed equipment.**
3. **Read the MANDATORY REQUIREMENTS table 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 this form. The owner or owner's agent must also sign and date the form.**

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT[1]

REQUIREMENTS	FENESTRATION *U*-FACTOR[2,3,4]	SKYLIGHT[2] *U*-FACTOR	GLAZED FENESTRATION SHGC[2,3]	CEILING *R*-VALUE	WOOD FRAME WALL *R*-VALUE[5]	MASS WALL *R*-VALUE[5,6]	FLOOR *R*-VALUE	BASEMENT WALL *R*-VALUE	SLAB[7] *R*-VALUE & DEPTH	CRAWL SPACE WALL *R*-VALUE
CLIMATE ZONE 1	NR	0.75	0.25	30	13	3/4	13	0	0	0
CLIMATE ZONE 2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
VALUE	AVG	AVG	AVG	LOWEST	LOWEST	LOWEST	LOWEST	LOWEST	LOWEST	LOWEST
INSTALLED:	0.40		0.25	R-38		R-6			R-0	

***R*-Value Calculation Method - [PASS / FAIL]**

For SI: 1 foot = 304.8 mm; NR = No requirement.
(1) *R*-values are minimums. *U*-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed *R*-value of the insulation shall not be less than the *R*-value specified in the table.
(2) The fenestration *U*-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.
(3) For impact rated fenestration complying with Section R301.2.1.2 of the *Florida Building Code, Residential* or Section 1609.1.2 of the *Florida Building Code, Building*, the maximum U-factor shall be 0.65 in Climate Zone 2. An area-weighted average of *U*-factor and SHGC shall be accepted to meet the requirements, and up to 15 square feet of glazed fenestration area are exempted from the *U*-factor and SHGC requirement based on Section R402.3.1, R402.3.2 and R402.3.3.
(4) One side-hinged opaque door assembly up to 24 square feet is exempted from this *U*-factor requirement based on Section R402.3.4.
(5) *R*-values are for insulation material only as applied in accordance with manufacturer's installation instructions.
(6) The second R-value applies when more than half the insulation is on the interior of the mass wall.
(7) R-5 shall be added to the required slab edge *R*-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate Zones 1 through 3 for heated slabs.

Air Infiltration:	Blower door test is required on the building envelope to verify leakage ≤ 7 ACH50; test report must be provided to code official before CO is issued. *Florida Building Code, Energy Conservation* Section R402.4.1.2 testing exception may apply for additions, alterations, or renovations.

(continued)

FORM R402—continued
EQUIPMENT REQUIREMENTS AND INSTALLED VALUES

Fill in the "INSTALLED EFFICIENCY LEVEL" column with the information requested. For multiple systems of the same type, indicate the minimum efficient system. All "INSTALLED" values must be equal to or more efficient than the required level. If a listed "SYSTEM TYPE" is not to be installed, write in "N/A" for not applicable.

SYSTEM TYPE	MINIMUM EFFICIENCY LEVEL REQUIRED	INSTALLED EFFICIENCY LEVEL
Air distribution system[1]	Not allowed in attic	Location: UNCONDITIONED
Air handling unit	Factory Sealed	Factory Sealed? (Y)/N
Duct *R*-value	= R-8 (Ducts in unconditioned attics, Diameter ≥ 3 in.) = R-6 (Ducts in unconditioned non attics, Diam. ≥ 3 in.) = R-6 (Ducts in unconditioned attics, Diameter < 3 in.) = R-4.2 (Ducts in unconditioned not attics, Diam. < 3 in.)	*R*-Value (In unc. attic) = *R*-Value (In unc. non attics) = R-6 *R*-Value (Small ducts in attic) = *R*-Value (Small ducts in unc) =
	All ducts are in conditioned space (No minimum)	All in conditioned space ? Y/N
Air leakage/Duct test	Air handler installed: Total leakage = 4 cfm/100 s.f. Air handler not installed: Total leakage = 3 cfm/100 s.f.	Total leakage = 4 cfm/100 s.f. Air handler installed? (Y)/N
Duct testing	Test not required if all ducts and AHU are within the building thermal envelope and for additions or alterations where ducts extended from existing heating and cooling system through unconditioned space are < 40 linear ft.	Test report required? (Y)/N
Air conditioning systems: Central system ≤ 45,000 Btu/h Central system > 45,000 Btu/h	Minimum federal standard required by NAECA[2]: SEER2 =14.3 SEER2=13.8	Cap. (Btu/h)= 45,000 BTU/h SEER2 (Min)= 14.3
Central heat pump	SEER2 14.3	SEER2 (Min)= 14.3
PTAC	EER [from Table C403.2.3(3)]	EER (Min)=
Other:	See Tables C403.2.3(1)–(11)	Type = Effic. (min) =
Heating systems: Heat pump ≤ 65,000 Btu/h Gas furnace, non-weatherized Oil furnace, non-weatherized	Minimum federal standard required by NAECA[2]: HSPF ≥ 8.2 AFUE ≥ 80% AFUE ≥ 83%	HSPF (Min) = 8.2 AFUE (Min) = AFUE (Min) =
Other:		Type = Effic. (min) =
Water heating system (storage type):	Minimum federal standard required by NAECA[2]:	Capacity = 50
Electric[3, 6] Gas fired[4, 6]	UEF 40 gal. 0.923; 50 gal.: 0.921; 60 gal.: 2.051 UEF 40 gal. 0.580; 50 gal.: 0.563; 60 gal.: 0.766	UEF (Min) = 0.921 UEF (Min) =
Other (describe)[5, 6]:		Type = Effic. (min) =

Equipment Efficiency—[PASS / FAIL]

(1) Ducts & AHU installed "substantially leak free" per Section R403.3.2. Test required by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i), *Florida Statutes*. The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope, and for additions where ducts from an existing heating and cooling system extended to the addition through unconditioned space are less than 40 linear ft.
(2) *Minimum efficiencies are those* set by the *National Appliance Energy Conservation Act* of 1987 for typical residential equipment and are subject to NAECA rules and regulations. For other types of equipment, see Tables C403.2.3 (1-11) of the Commercial Provisions of the *Florida Building Code, Energy Conservation*.
(3) For electric storage volumes ≤ 55 gallons, minimum UEF = 0.9349 – (0.0001 * volume). For electric storage volumes > 55 gallons, minimum UEF = 2.2418 – (0.0011 * volume).
(4) For natural gas storage volumes ≤ 55 gallons, minimum UEF = 0.692 – (0.0013 * volume). For natural gas storage volumes > 55 gallons, minimum UEF = 0.8072 – (0.0003 * volume).
(5) For electric tankless, min. UEF = 0.92. For natural gas tankless, min. UEF = 0.81.
(6) Referenced UEFs shown are for medium draw pattern value provided by manufacturer.

(continued)

FORM R402—continued

MANDATORY REQUIREMENTS			
Component	**Section**	**Summary of Requirements**	**Check**
Air leakage	R402.4	To be caulked, gasketed, weatherstripped or otherwise sealed per Table R402.4.1.1. Recessed lighting IC-rated as having ≤ 2.0 cfm tested to ASTM E283. Windows and doors: 0.3 cfm/sq.ft (swinging doors: 0.5 cfm/sf) when tested to NFRC 400 or AAMA/WDMA/CSA 101/I.S. 2/A440. Fireplaces: Tight-fitting flue dampers & outdoor combustion air	✓
Programmable thermostat	R403.1.2	A programmable thermostat is required for the primary heating or cooling system.	✓
Air distribution system	R403.3.2 R403.3.4	Ducts shall be tested as per Section R403.3.2 by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3) (f), (g) or (i), *Florida Statutes*. Air handling units are not allowed in attics.	✓
Water heaters	R403.5	Comply with efficiencies in Table C404.2. Hot water pipes insulated to ≥ R-3 to kitchen outlets, other cases. Circulating systems to have an automatic or accessible manual OFF switch. Heat trap required for vertical pipe risers.	✓
Cooling/heating equipment	R403.7	Sizing calculation performed & attached. Special occasion cooling or heating capacity requires separate system or variable capacity system.	✓
Swimming pools & spas	R403.10	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. Off/timer switch required. Gas heaters minimum thermal efficiency is 82%. Heat pump pool heaters minimum COP is 4.0.	
Lighting equipment	R404.1	Not less than 90% of the lamps in permanently installed luminaires shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.	✓

I hereby certify that the plans and specifications covered by this form are in compliance with the *Florida Building Code, Energy Conservation*.
PREPARED BY: _____ **Date** 8-24-2023
I hereby certify that this building is in compliance with the *Florida Building Code, Energy Conservation*.
OWNER/AGENT: _____ **Date:** 8-24-2023

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.
CODE OFFICIAL: _____
Date: _____

FLORIDA BUILDING CODE, ENERGY CONSERVATION
Residential Building Thermal Envelope Approach
R-Value Computation Method
FORM R402—2020 (with 2022 Supplement) — **Florida Climate Zone**

PROJECT NAME AND ADDRESS: HOUSE CONSTRUCTION 504 SW PHOENIX GLN FORT WHITE, FL	BUILDER:
	PERMITTING OFFICE:
	JURISDICTION NUMBER:
OWNER:	PERMIT NUMBER:
PERMIT TYPE: GEORGE STRAWDER	NUMBER OF UNITS:
WORST CASE?	CONDITIONED FLOOR AREA:

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 and applicable mandatory requirements summarized on this form. If a building does not comply with this method, or by the UA Alternative method, it may still comply under Section R405 or R406 of the *Florida Building Code, Energy Conservation*.

General Instructions:

1. Fill in all the applicable spaces of the "INSTALLED" row in the INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT table with the information requested. All "INSTALLED" values must be equal to or more efficient than the required levels. "AVG" indicates an area weighted average is allowed; "LOWEST" indicates the lowest *R*-value to be installed must be entered.
2. Complete the tables for air infiltration and installed equipment.
3. Read the MANDATORY REQUIREMENTS table 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 this form. The owner or owner's agent must also sign and date the form.

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT[1]

REQUIREMENTS	FENESTRATION *U*-FACTOR[2,3,4]	SKYLIGHT[2] *U*-FACTOR	GLAZED FENESTRATION SHGC[2,3]	CEILING *R*-VALUE	WOOD FRAME WALL *R*-VALUE[5]	MASS WALL *R*-VALUE[5,6]	FLOOR *R*-VALUE	BASEMENT WALL *R*-VALUE	SLAB[7] *R*-VALUE & DEPTH	CRAWL SPACE WALL *R*-VALUE
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VALUE	AVG	AVG	AVG	LOWEST	LOWEST	LOWEST	LOWEST	LOWEST	LOWEST	LOWEST
INSTALLED:	0.40		0.25	R-38		R-6			R-0	

***R*-Value Calculation Method - [PASS / FAIL]**

For SI: 1 foot = 304.8 mm; NR = No requirement.
(1) *R*-values are minimums. *U*-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed *R*-value of the insulation shall not be less than the *R*-value specified in the table.
(2) The fenestration *U*-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.
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(7) R-5 shall be added to the required slab edge *R*-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate Zones 1 through 3 for heated slabs.

Air infiltration:	Blower door test is required on the building envelope to verify leakage ≤ 7 ACH50; test report must be provided to code official before CO is issued. *Florida Building Code, Energy Conservation* Section R402.4.1.2 testing exception may apply for additions, alterations, or renovations.

(continued)

FORM R402—continued
EQUIPMENT REQUIREMENTS AND INSTALLED VALUES

Fill in the "INSTALLED EFFICIENCY LEVEL" column with the information requested. For multiple systems of the same type, indicate the minimum efficient system. All "INSTALLED" values must be equal to or more efficient than the required level. If a listed "SYSTEM TYPE" is not to be installed, write in "N/A" for not applicable.

SYSTEM TYPE	MINIMUM EFFICIENCY LEVEL REQUIRED	INSTALLED EFFICIENCY LEVEL
Air distribution system[1]	Not allowed in attic	Location: UNCONDITIONED
Air handling unit Duct *R*-value	Factory Sealed = R-8 (Ducts in unconditioned attics, Diameter ≥ 3 in.) = R-6 (Ducts in unconditioned non attics, Diam. ≥ 3 in.) = R-6 (Ducts in unconditioned attics, Diameter < 3 in.) = R-4.2 (Ducts in unconditioned not attics, Diam. < 3 in.) All ducts are in conditioned space (No minimum)	Factory Sealed? (Y)/N *R*-Value (In unc. attic) = *R*-Value (In unc. non attics) = R-6 *R*-Value (Small ducts in attic) = *R*-Value (Small ducts in unc) = All in conditioned space ? Y/N
Air leakage/Duct test	Air handler installed: Total leakage = 4 cfm/100 s.f. Air handler not installed: Total leakage = 3 cfm/100 s.f.	Total leakage = 4 cfm/100 s.f. Air handler installed? (Y)/N
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Central heat pump	SEER2 14.3	SEER2 (Min)= 14.3
PTAC	EER [from Table C403.2.3(3)]	EER (Min)=
Other:	See Tables C403.2.3(1)–(11)	Type = Effic. (min) =
Heating systems: Heat pump ≤ 65,000 Btu/h Gas furnace, non-weatherized Oil furnace, non-weatherized	Minimum federal standard required by NAECA[2]: HSPF ≥ 8.2 AFUE ≥ 80% AFUE ≥ 83%	HSPF (Min) = 8.2 AFUE (Min) = AFUE (Min) =
Other:		Type = Effic. (min) =
Water heating system (storage type):	Minimum federal standard required by NAECA[2]:	Capacity = 50
Electric[3, 6] Gas fired[4, 6]	UEF 40 gal. 0.923; 50 gal.: 0.921; 60 gal.: 2.051 UEF 40 gal. 0.580; 50 gal.: 0.563; 60 gal.: 0.766	UEF (Min) = 0.921 UEF (Min) =
Other (describe)[5, 6]:		Type = Effic. (min) =

Equipment Efficiency—[PASS / FAIL]

(1) Ducts & AHU installed "substantially leak free" per Section R403.3.2. Test required by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i), *Florida Statutes*. The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope, and for additions where ducts from an existing heating and cooling system extended to the addition through unconditioned space are less than 40 linear ft.
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(3) For electric storage volumes ≤ 55 gallons, minimum UEF = 0.9349 – (0.0001 * volume). For electric storage volumes > 55 gallons, minimum UEF = 2.2418 – (0.0011 * volume).
(4) For natural gas storage volumes ≤ 55 gallons, minimum UEF = 0.692 – (0.0013 * volume). For natural gas storage volumes > 55 gallons, minimum UEF = 0.8072 – (0.0003 * volume).
(5) For electric tankless, min. UEF = 0.92. For natural gas tankless, min. UEF = 0.81.
(6) Referenced UEFs shown are for medium draw pattern value provided by manufacturer.

(continued)

FORM R402—continued

MANDATORY REQUIREMENTS			
Component	**Section**	**Summary of Requirements**	**Check**
Air leakage	R402.4	To be caulked, gasketed, weatherstripped or otherwise sealed per Table R402.4.1.1. Recessed lighting IC-rated as having ≤ 2.0 cfm tested to ASTM E283. Windows and doors: 0.3 cfm/sq.ft (swinging doors: 0.5 cfm/sf) when tested to NFRC 400 or AAMA/WDMA/CSA 101/I.S. 2/A440. Fireplaces: Tight-fitting flue dampers & outdoor combustion air	✓
Programmable thermostat	R403.1.2	A programmable thermostat is required for the primary heating or cooling system.	✓
Air distribution system	R403.3.2 R403.3.4	Ducts shall be tested as per Section R403.3.2 by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3) (f), (g) or (i), *Florida Statutes*. Air handling units are not allowed in attics.	✓
Water heaters	R403.5	Comply with efficiencies in Table C404.2. Hot water pipes insulated to ≥ R-3 to kitchen outlets, other cases. Circulating systems to have an automatic or accessible manual OFF switch. Heat trap required for vertical pipe risers.	✓
Cooling/heating equipment	R403.7	Sizing calculation performed & attached. Special occasion cooling or heating capacity requires separate system or variable capacity system.	✓
Swimming pools & spas	R403.10	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. Off/timer switch required. Gas heaters minimum thermal efficiency is 82%. Heat pump pool heaters minimum COP is 4.0.	
Lighting equipment	R404.1	Not less than 90% of the lamps in permanently installed luminaires shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.	✓

I hereby certify that the plans and specifications covered by this form are in compliance with the *Florida Building Code, Energy Conservation*.
PREPARED BY: _____ **Date:** 8-24-2023
I hereby certify that this building is in compliance with the *Florida Building Code, Energy Conservation*.
OWNER/AGENT: _____ **Date:** 8-24-2023

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.
CODE OFFICIAL: _____
Date: _____

wrightsoft

Load Short Form
Entire House
Mosely Builders

Job: 504 S.W. Phoenix Glen
Date: 09/11/2023
By: John Pirkl
Plan: Manual J and D

FL Phone: (352) 214 - 6318 Email: Mosleybuildersinc@yahoo.com

Project Information

For: Mosely Builders
FL
Phone: (352) 214 - 6318
Email: mosleybuildersinc@yahoo,com

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	68	75
Design TD (°F)	35	17
Daily range	-	M
Inside humidity (%)	50	50
Moisture difference (gr/lb)	29	47

Infiltration	
Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make	Goodman Mfg.
Trade	GOODMAN
Model	GSZB404810A
AHRI ref	210318453

Efficiency	7.5 HSPF2	
Heating input		
Heating output	46000	Btuh @ 47°F
Temperature rise	26	°F
Actual air flow	1600	cfm
Air flow factor	0.047	cfm/Btuh
Static pressure	0.51	in H2O
Space thermostat		

Capacity balance point = 26 °F

COOLING EQUIPMENT

Make	Goodman Mfg.
Trade	GOODMAN
Cond	GSZB404810A
Coil	AMST48CU1400A
AHRI ref	210318453

Efficiency	12.0 EER2,14.5 SEER2	
Sensible cooling	31850	Btuh
Latent cooling	13650	Btuh
Total cooling	45500	Btuh
Actual air flow	1600	cfm
Air flow factor	0.046	cfm/Btuh
Static pressure	0.51	in H2O
Load sensible heat ratio	0.80	

Backup:
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom #3	155	3751	2839	178	132
Bedroom #4	162	3794	3393	180	157
Bathrm #3	50	591	201	28	9
Living Room	477	5656	6756	269	313
Kitchen/Dining	394	4621	5245	219	243
Bedroom #2	182	2669	3191	127	148
Pantry	40	50	83	2	4
Bathrm #2	44	55	91	3	4
Laundry	81	1773	2272	84	105
Office	132	1573	2026	75	94
Mstr Bathrm	128	3651	2735	173	127
Mstr WIC	67	956	443	45	21
Mstr Bedroom	185	4560	5265	217	244

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

Entire House	2096	33701	34541	1600	1600
Other equip loads		0	1707		
Equip. @ 0.97 RSM			35160		
Latent cooling			9086		
TOTALS	2096	33701	44246	1600	1600

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

Duct System Summary
Entire House
Mosely Builders

Job: 504 S.W. Phoenix Glen
Date: 09/11/2023
By: John Pirkl
Plan: Manual J and D

FL Phone: (352) 214 - 6318 Email: Mosleybuildersinc@yahoo.com

Project Information

For: Mosely Builders
FL
Phone: (352) 214 - 6318
Email: mosleybuildersinc@yahoo,com

	Heating	Cooling
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.186 / 0.144 in H2O	0.186 / 0.144 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	1600 cfm	1600 cfm
Total effective length (TEL)	388 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm #2	c 91	3	4	0.880	4.0	0x 0	VlFx	66.1	130.0	st2
Bathrm #3	h 591	28	9	0.880	4.0	0x 0	VlFx	21.6	115.0	st3
Bedroom #2	c 3191	127	148	0.880	7.0	0x 0	VlFx	65.8	130.0	st2
Bedroom #3	h 3751	178	132	0.880	7.0	0x 0	VlFx	24.2	115.0	st3
Bedroom #4	h 3794	180	157	0.880	7.0	0x 0	VlFx	25.4	115.0	st3
Kitchen/Dining	c 2623	110	122	0.880	6.0	0x 0	VlFx	20.5	115.0	st3
Kitchen/Dining-A	c 2623	110	121	0.880	6.0	0x 0	VlFx	68.8	130.0	st2
Laundry	c 2272	84	105	0.880	6.0	0x 0	VlFx	73.1	130.0	st2
Living Room	c 3378	134	156	0.880	7.0	0x 0	VlFx	67.4	130.0	st2
Living Room-A	c 3378	134	156	0.880	7.0	0x 0	VlFx	23.1	115.0	st3
Mstr Bathrm	h 3651	173	127	0.880	7.0	0x 0	VlFx	91.7	125.0	st1
Mstr Bedroom	c 2632	108	122	0.880	6.0	0x 0	VlFx	91.4	125.0	st1
Mstr Bedroom-A	c 2632	108	122	0.880	6.0	0x 0	VlFx	93.1	125.0	st1
Mstr WIC	h 956	45	21	0.880	4.0	0x 0	VlFx	91.0	125.0	st1
Office	c 2026	75	94	0.880	5.0	0x 0	VlFx	91.1	125.0	st1
Pantry	c 83	2	4	0.880	4.0	0x 0	VlFx	62.5	130.0	st2

Supply Trunk Detail Table

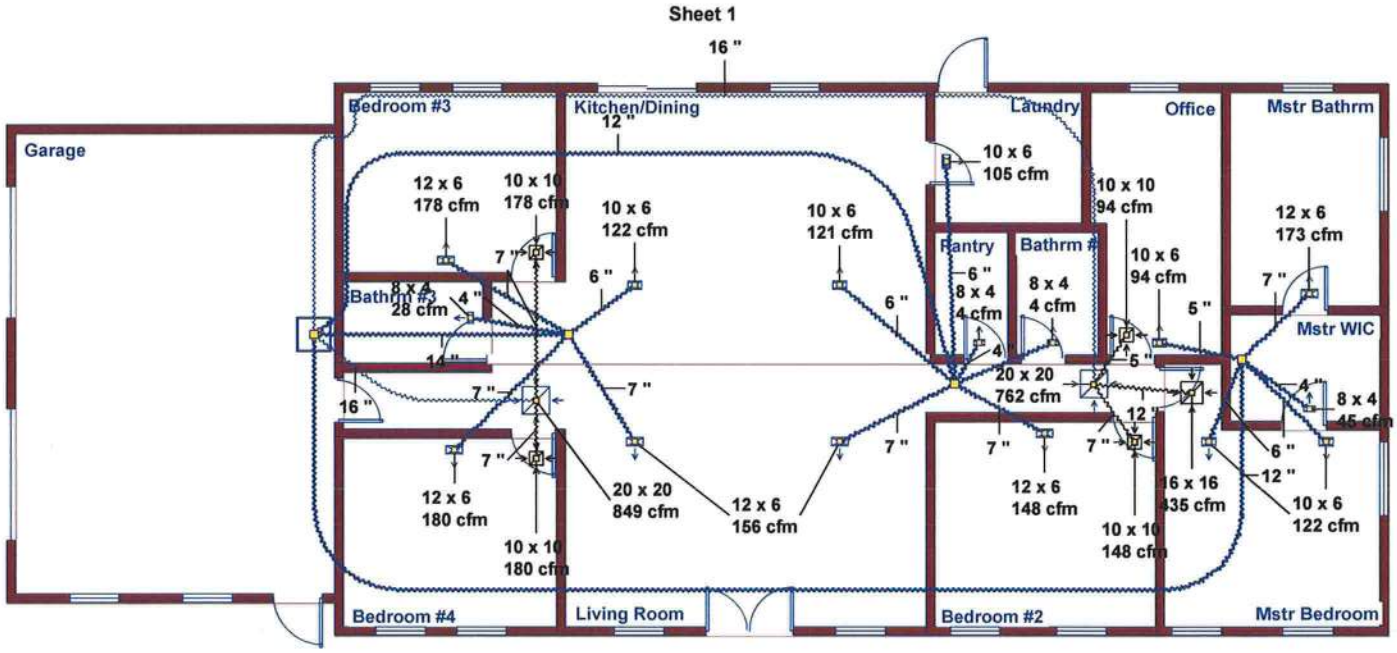
Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	510	485	0.880	649	12.0	0 x 0	VinlFlx	
st2	Peak AVF	460	539	0.880	686	12.0	0 x 0	VinlFlx	
st3	Peak AVF	630	576	0.880	590	14.0	0 x 0	VinlFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2	20x 18	751	762	169.5	0.880	546	16.0	0x 0		VlFx	rst9
rb1	20x 20	849	838	89.9	0.880	608	16.0	0x 0		VlFx	rst10

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst9	Peak AVF	751	762	0.880	546	16.0	0 x 0	VinlFlx	
rst10	Peak AVF	849	838	0.880	608	16.0	0 x 0	VinlFlx	



Job #: 504 S.W. Phoenix Glen **Performed by John Pirkl for:** Mosely Builders FL Phone: (352) 214 - 6318 mosleybuildersinc@yahoo,com	**Mosely Builders** FL Phone: (352) 214 - 6318 Mosleybuildersinc@yahoo.com	Scale: 1 : 140 Page 1 Right-Suite® Universal 2023 23.0.03 RSU02050 2023-Sep-11 17:16:02 ...Builders\504 SW Phoenix Glen.rup

AHRI CERTIFIED®
www.ahridirectory.org

Certificate of Product Ratings

AHRI Certified Reference Number : 210318453 Date : 09-11-2023 Model Status : Active

AHRI Type : HRCU-A-CB (Split System: Heat Pump with Remote Outdoor Unit-Air-Source)

Series : GSZB4

Outdoor Unit Brand Name : GOODMAN

Outdoor Unit Model Number (Condenser or Single Package) : GSZB404810A*

Indoor Unit Model Number (Evaporator and/or Air Handler) : AMST48CU1400A*

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

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2023, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F), btuh : 45500

SEER2 : 15.20

EER2 (A_{Full}) – Single or High Stage (95F) : 12.50

Heating Capacity ($H1_{Full}$) – Single or High Stage (47F), btuh : 46000

HSPF2 (Region IV) : 7.80

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

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

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.

AHRI
AIR-CONDITIONING, HEATING, & REFRIGERATION INSTITUTE
we make life better™

CERTIFICATE NO.: 133389383064811281

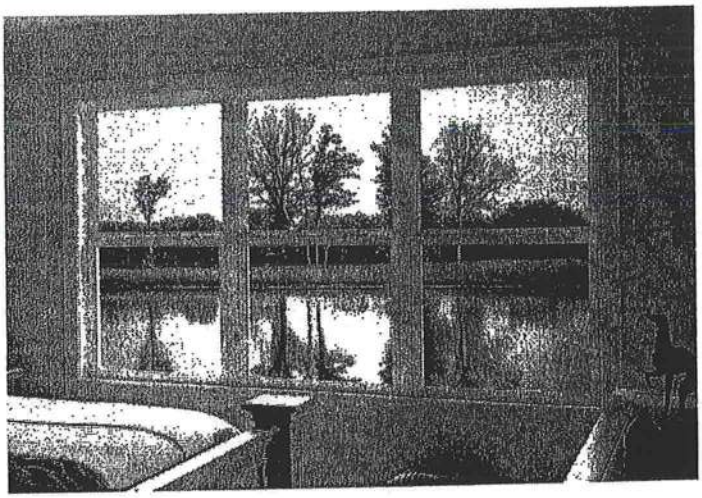
JELD-WEN WINDOWS & DOORS

THIS PLAN MUST REMAIN ON JOB SITE

Installation Instructions

for Vinyl Windows with Integral Nailing Fin (NFRC)

FL 14108.4 - R18



Thank you for selecting JELD-WEN products. Attached are JELD-WEN's recommended installation instructions for Vinyl windows with an integral nail fin. Not all window types may be installed into every wall condition in all areas. Consult your local building code official for applicable building codes and regulations. Local building code requirements supersede recommended installation instructions. Areas such as Florida and the Texas TDI region have different anchoring requirements based on product certification. For information on specific products, visit www.floridabuilding.org or www.tdi.texas.gov and follow the anchoring schedule given in the drawings for the product instead of the anchoring schedule in this document.

Newer construction methods have led to an increase in air and water tightness in buildings. This frequently leads to negative air pressure inside the house, which can draw water through very small openings. Our installation method integrates the window with the weather barrier of the structure (typically building wrap).

IMPORTANT INFORMATION | TABLE OF CONTENTS | GLOSSARY

PLEASE NOTE: Installations where the sill is higher than 35 feet above ground level, or any product installation into a wall condition not specifically addressed in these instructions, must be designed by an architect or structural engineer. Failure to install windows into square, level, and plumb openings could result in denial of warranty claims for operational or performance problems.

NOTE TO INSTALLER: Provide a copy of these instructions to the building owner. By installing this product, you acknowledge the terms and conditions of the limited product warranty as part of the terms of the sale.

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Rough Openings 1
Safety and Handling 2
Materials and Tools 2
Remove Packaging and Inspect Window 3
Inspect Rough Opening 3
Prepare Buck 3
Prepare Stud-Framed Wall 4
Install Window 4
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Complete Installation 7

Glossary

Buck
A wood framework attached to the masonry inside a window or patio door rough opening.

Mull Joint
The joint where two or more window units are structurally joined together.

Mulled Unit
Two or more window units structurally joined together.

Precast Sill
A pre-formed concrete block placed in the sill of a masonry/block wall to support a window.

Self-Adhered Flashing
An adhesive backed tape material used to waterproof the rough opening and/or used to seal a window to the building's weather barrier.

Shiplap
The layering method in which each layer overlaps the layer below it so that water runs down the outside.

Weep Hole (weep channel)
The visible exit or entry part of a water drainage system used to drain water out of a window.

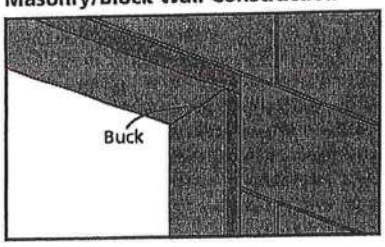
ROUGH OPENINGS

This installation guide specifically addresses masonry/block wall, sheathed wall and open-stud construction.

Masonry/Block Wall Construction

This installation assumes that a framework of studs (often called a buck) has already been properly fastened and sealed to the concrete/masonry wall by a building professional.

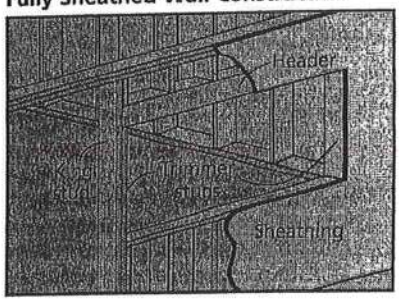
Masonry/Block Wall Construction



Fully Sheathed Wall Construction

The wall framing is covered by sheathing. Windows will be mounted flush against the sheathing. This installation assumes building wrap is properly installed prior to installation.

Fully Sheathed Wall Construction



ROUGH OPENINGS CONTINUED

Open-Stud Construction

If self-adhered flashing is to be applied so that it is wider than the framing of the wall, it may be necessary to cover the wall with backing support sufficient to support the entire width of the flashing.

This backing support should be a non-water degradable, thin (max. 1/8" thick) sheet material such as lauan or plywood. Completely surround the rough opening with the backing support. Backing support must be applied before building wrap.

The window will be mounted with the nailing fin flush against the applied backing support.

SAFETY AND HANDLING

Safety

- Read and fully understand ALL manufacturers' instructions before beginning. Failure to follow proper installation instructions may result in the denial of warranty claims for operational or performance problems.
- Do not work alone. Two or more people are required. Use safe lifting techniques.
- Use caution when handling glass. Broken or cracked glass can cause serious injury.
- Wear protective gear (e.g. safety glasses, gloves, ear protection, etc.),
- Operate hand/power tools safely and follow manufacturer's operating instructions.
- Use caution when working at elevated heights.
- If disturbing existing paint, take proper precautions if lead paint is suspected (commonly used before 1979). Your regional EPA (www.epa.gov/lead) or Consumer Product Safety Commission offices provide information regarding regulations and lead protection.
- **WARNING!** Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Use a respirator or other safeguards to avoid inhaling wood dust.

Materials and Window Handling

- Make sure operable windows are locked prior to installation.
- Heed material manufacturers' handling and application instructions.
- Protect adhesive surfaces from dirt, moisture, direct sunlight and folding over onto themselves.
- Handle in vertical position; do not carry flat or drag on floor.
- Do not put stress on joints, corners or frames.
- Store window in dry, well-ventilated area in vertical, leaning position to allow air circulation; do not stack horizontally.
- Protect from exposure to direct sunlight during storage.
- Install only into vertical walls and when conditions and sheathing are dry.

IF INJURY OCCURS, IMMEDIATELY SEEK MEDICAL ATTENTION!

MATERIALS AND TOOLS

Needed Materials

NOTE: JELD-WEN exterior window and door products should be installed in accordance with JELD-WEN's recommended installation and flashing directions, which are shipped with the products or can be found on our website: www.jeld-wen.com. Note that alternative installation methods and flashing systems may be utilized at the installer's or owner's discretion and, in such situations the installation should be done in accordance with the flashing manufacturer's instructions. Follow all material manufacturers' instructions for proper use and compatibility. When using flashing, spray adhesive/primer, sealant and foam products, we recommend using the same manufacturer and verifying compatibility. It is the End User's responsibility to determine if dissimilar materials are compatible to the substrates in the application.

- 1 3/4" galvanized roofing nails or #8 x 1 1/4" pan head or washer head (stainless steel recommended) screws. Fasteners must penetrate at least 1" into framing (or as required by local code).
- For mulled and/or PG50 or above units: #8 x 1 1/4" pan head or washer head (stainless steel recommended) screws. Screws must penetrate at least 1" into framing (or as required by local code).
- For Wind Zone 3 (WZ3) Products (Tilt Single Hung, Tilt Double Hung and Horizontal Slider Windows): Four #8 x 2 1/2" flat head screws (stainless steel recommended) are needed to go through the bracket and anchor the bracket to the rough framing.
- Sealant: We recommend OSI® QUAD® Max Sealant or equivalent. This can be used in any application and can be painted or ordered in a color matched product, if desired.
- Backer rod 1/8" larger than the widest portion of the gap (used in conjunction with sealant bead).
- Polyurethane low expansion Window and Door foam: We recommend OSI® QUAD® Foam or equivalent.
- Non-compressible or non-water degradable shims.

For installations into a stud-framed wall:

- 4", 6", or 9" (as required by local code and window configuration) wide self-adhered flashing: We recommend OSI® Butyl Flash Tape or equivalent.
- Spray adhesive/primer for self-adhered flashing. Such as Loctite® 300 or equivalent. Follow manufacturer's instructions for application methods.
- For mulled units, a drip cap 1/8" longer than the frame width is required.

For installations into a buck:

- Liquid applied flashing (Protecto Wrap LWM 200 or equivalent).

Needed Tools

- Utility knife
- J-roller
- Hammer
- Tape measure
- Caulking gun
- Level (4' minimum recommended)
- Drill with bits

JELD-WEN WINDOWS & DOORS

Installation Instructions
for Vinyl Windows with Integral Nailing Fin (JII001)

1 REMOVE PACKAGING AND INSPECT WINDOW

Remove Packaging

Remove shipping materials such as corner covers, shipping blocks or pads. If there is a protective film on the glass, do not remove it until installation and construction are complete.

Inspect Window

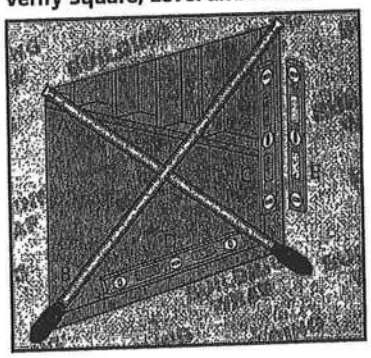
- Cosmetic damage.
- Product squareness (diagonal measurements not more than 1/4" different).
- Correct product (size, color, grid pattern, handing, glazing, energy-efficiency requirements, etc.).
- Cracked frame welds or other frame damage.
- Splits, cracks, holes, missing sections or other damage to the nailing fin longer than 6" and/or within 1/2" of window frame.
- For side-by-side mulled units, a drip cap that extends the length of the frame plus 1/8" overhang on each end is required.

If any of the above conditions represent a concern, or if you expect environmental conditions to exceed the window's performance rating, do not install the window. Contact your dealer or distributor for recommendations.

2 INSPECT ROUGH OPENING

- Verify the width and height of the window are each 1/2" - 5/8" smaller than the rough opening width and height. Mulled units should be 3/4" narrower.
- Verify the rough opening is square. The (A) and (B) measurements should be the same. Maximum allowable deviation from square is 1/8" for windows 20 sq. ft. and smaller, and 1/4" for windows larger than 20 sq. ft.

Verify Square, Level and Plumb



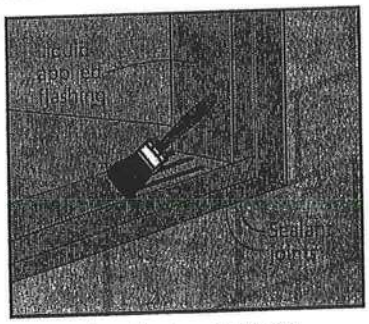
- Verify the rough opening is level and plumb (C, D and E). The maximum allowable deviation is 1/16" for every 2' of rough opening (not to exceed 1/8").
- The rough opening sill must not be crowned or sagged (D), but rather level or sloped (positive slope) to the exterior.
- The exterior face of the rough opening must be in a single plane (E) with less than 1/8" twist from corner to corner.
- Minimum double studs (king and jack/trimmer) should be used to support the header at all rough openings.

For Retrofit Installations

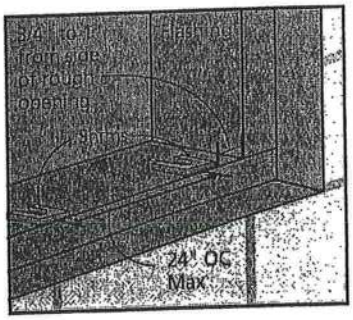
After removing the old window, remove sufficient cladding (siding, stucco etc.) to expose enough intact building wrap to properly seal the window to the opening. If damaged, apply new building wrap in shiplap manner. Verify the rough opening framing is structurally sound. Contact your local waste management entities for proper disposal or recycling of products being removed.

3 PREPARE BUCK

NOTE: This section applies to installations into a masonry wall only. For installations into a stud-framed wall, begin with section 4, "PREPARE STUD-FRAMED WALL."



1. Seal any joint larger than 1/16" in the buck and between the buck and the concrete/masonry with sealant.
2. Cover the buck and the surrounding concrete/masonry at the head and jambs with liquid applied flashing as shown.
3. If installing into a four-sided buck, seal the sill in a similar manner.
4. Place shims on the buck sill as needed to level the window and prevent sagging or bowing. Shims should be aligned in the following fashion:
   - Near the exterior edge of the sill.
   - One shim placed 3/4" to 1" in from each side wall of the buck.
   - No more than 24 inches on center between additional shims.
   - For mulled units, ensure there is a shim located 1/2" either side of the mull joint.

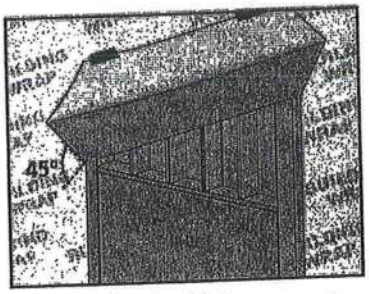


Shims may be temporary held in place with sealant. **SKIP to section 5, "INSTALL WINDOW."**

4 PREPARE STUD-FRAMED WALL

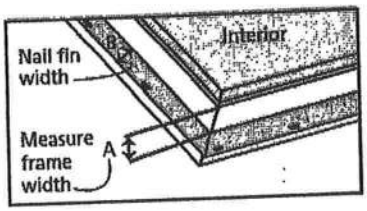
Prepare Building Wrap

NOTE: Check with the building wrap manufacturer to verify the following steps will not void their product warranty.

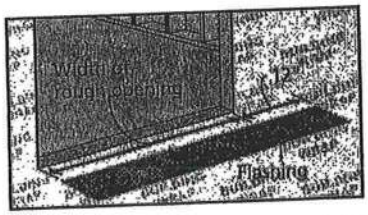


1. Trim building wrap flush with the rough opening.
2. At the head, cut building wrap at 45° and tape up as shown.
3. Trim the sides sufficiently to allow the nailing fin to be mounted against the sheathing.

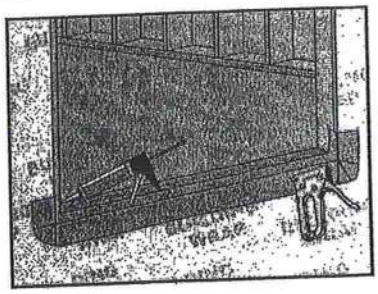
Prepare/Shim the Sill



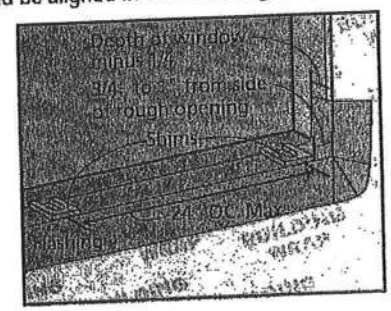
1. Use self-adhered flashing to waterproof the sill.
2. Flashing must have at least 2" of visible material below nail fin. Flashing width must be at least measurement **A** (Frame Width) + **B** (Nail fin Width) + **1 3/4"**.
3. Measure the width of the frame from the interior to the nail fin and subtract 1/4". Transfer this measurement from the outside edge of the rough opening sill and draw a line all along the rough opening sill. This is where the back of the flashing will sit.
4. Cut a piece of flashing the length of the sill plus 12".



5. Place flashing on rough opening sill, wrapping the flashing up 6" on each jamb as shown.
6. Pull release tape and set flashing into place.
7. Fold the flashing down onto the sheathing. Mechanically fasten if necessary.
8. Smooth out any bubbles or creases with a J-roller. Remove and replace if necessary.



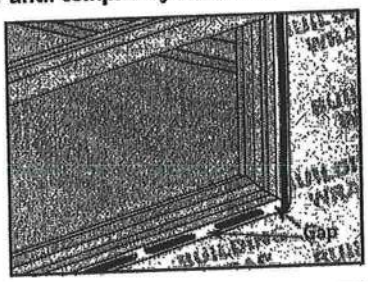
9. Place shims on the rough sill as needed to level the window and prevent sagging or bowing. Shims should be aligned in the following fashion:
   - Near the exterior edge of the sill.
   - One shim placed 3/4" to 1" in from each side of the rough opening.
   - No more than 24 inches on center between additional shims.
   - For mulled units ensure there is a shim located 1/2" either side of the mull joint.



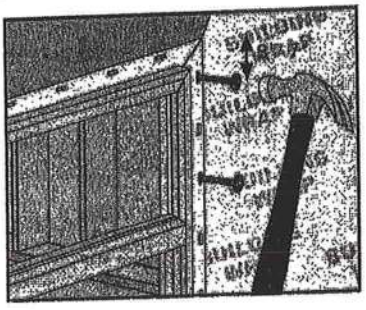
Shims may be temporarily held in place with sealant.

5 INSTALL WINDOW

WARNING! To avoid injury, use at least two people to install. Adequately support the window until completely fastened.

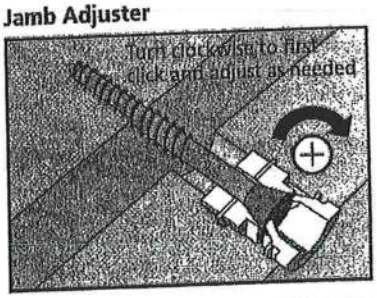


1. Run a continuous 3/8" bead of sealant around the interior side of the nail fin on the side jambs and head. On the sill, leave at least a 2" gap every 8" where it will contact the rough opening.
2. Place window onto the shims and tilt into the rough opening.
3. Fasten window through the nailing fin between 3"- 7" from one upper corner.

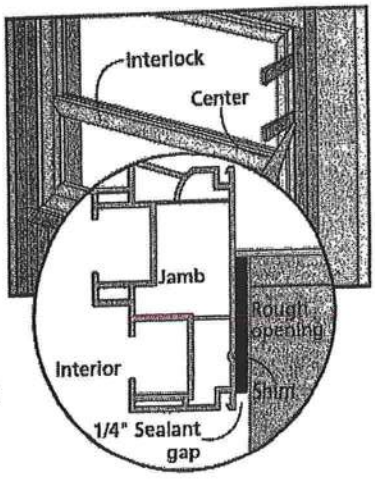


NOTE: On some double-hung operating units only, jamb adjuster hardware is mounted in the middle installation holes to allow for some jamb adjustment. Install jamb adjuster screws until captured (first 'click'), the screw may then be screwed in or out to adjust the jamb as needed.

Jamb Adjuster



4. Shim at each interlock, or in the center, and within 4"- 6" of each corner on the side and head jambs. Apply additional shims to the side and head jambs as necessary to ensure window position within the opening is plumb, level, and square. Larger windows usually need additional shims. Shims can be secured with sealant or adhesive.
5. Inspect window for square, level, and plumb. Test for proper operation (remove and reinstall if necessary).

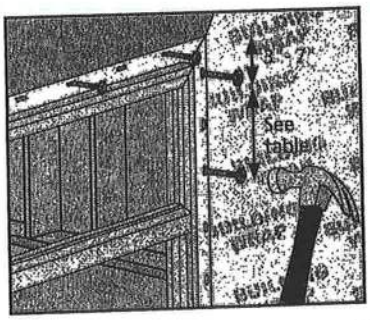


5 INSTALL WINDOW CONTINUED

Secure Window

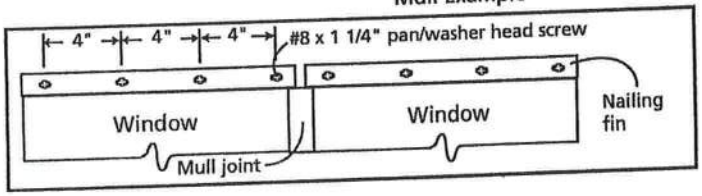
Areas such as Florida and the Texas TDI region have different anchoring requirements based on product certification. For information on specific products, visit www.floridabuilding.org or www.tdi.texas.gov and follow the anchoring schedule given in the drawings for the product instead of the anchoring schedule in this document.

NOTE: Fastener (anchor) heads must be flush. Do not dent nailing fin. Use the table below to find the correct product and fasten it as directed.



PG20 up to PG35	Fasten window through the nailing fin holes 3"-7" from the corners and 12" apart all the way around the window.
PG35 up to PG50 Awning, Casement, Fixed, Hung, Slider, PD	Fasten window through the nailing fin holes 3"-7" from the corners and 8" apart all the way around the window.
PG50 or above Awning, Casement, Slider, PD	Fasten window through the nailing fin holes 3"-7" from the corners and 8" apart all the way around the window.
PG50 or above Fixed	Fasten window through each nailing fin hole (every 4") on the jambs and 8" apart along the head and sill.
PG50 or above Hung	Fasten window through the nailing fin holes 3"-7" from the corners. Then, install fasteners 12" on center on the jambs, with fasteners every 4" on both sides of the Interlock. Install fasteners 8" apart along the head and sill.
Mull Joints	The first 12" beyond mull joints, on both sides, must be fastened through each nail fin hole.
Continuous Head and Sill PG35	The first 4" from center, on both sides, must be fastened every 2".
Continuous Head and Sill above PG35	The first 6" from center, on both sides, must be fastened every 2".

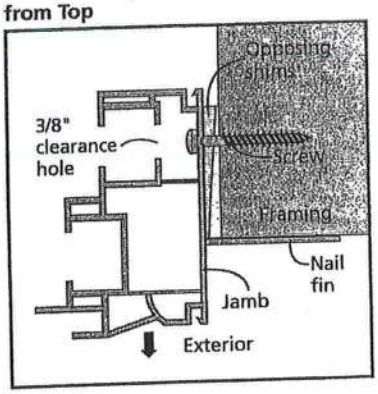
Mull Example



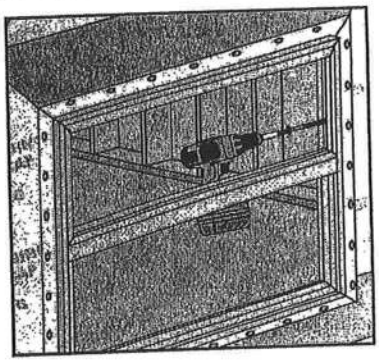
For PG50 OR ABOVE Tilt Hung Windows ONLY

1. From the interior, just above the interlock (where the sashes meet at center), align with shims and drill a 3/8" clearance hole through **ONLY** the first wall of the interior jamb (as shown). This will allow the screw head to pass through.

Double-Hung Jamb Cutaway from Top



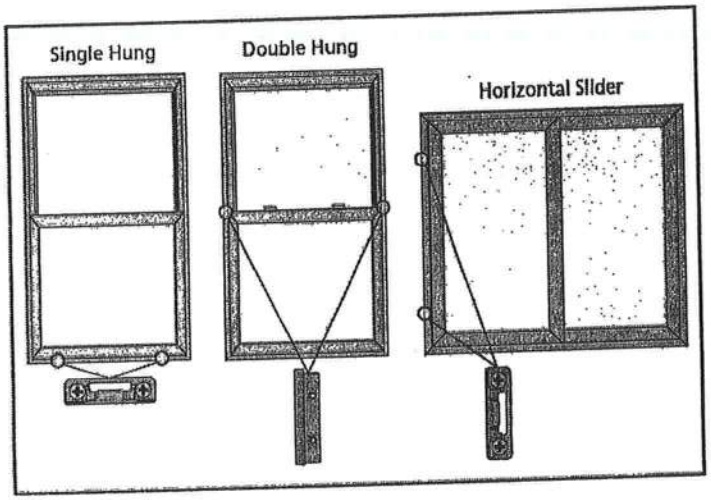
2. Drive one #8 x 1 1/4" pan/ washer head screw through the jamb and shim. Repeat for opposite side.



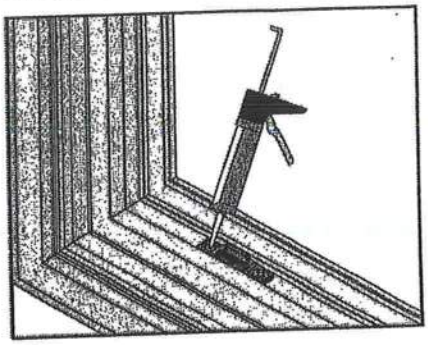
5 INSTALL WINDOW CONTINUED

For WZ3-IMPACT Tilt Single Hung, Tilt Double Hung and Horizontal Slider Windows ONLY

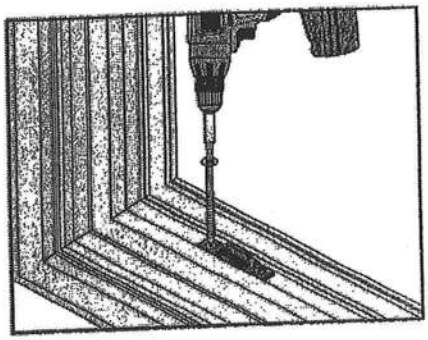
Additional brackets are applied to the Wind Zone 3 (WZ3) products listed below. The factory screws must be backed out of the bracket and replaced with a #8 x 2 1/2" flat head screw (stainless steel recommended).



1. Double check that the windows are installed plumb, level and square.
2. Operate the window to verify bracket location is correct and there are no clearance issue. If a clearance issue is identified adjust brackets as necessary for proper operation.
3. Remove one of the factory applied screws. Apply enough sealant to the bracket hole to cover the existing screw hole and so there will be adequate squeeze out around the head of the fastener to be applied next.



4. Place shim between the window frame and rough opening, in-line with the bracket. Align the shim so that the fasteners go through the bracket and hold the shim in place.
5. Apply a #8 x 2 1/2" screw through the bracket hole. Tighten until snug and squeeze out is observed around the screw head. Wipe off excess sealant and repeat for the other screw.
6. Repeat for any remaining brackets.



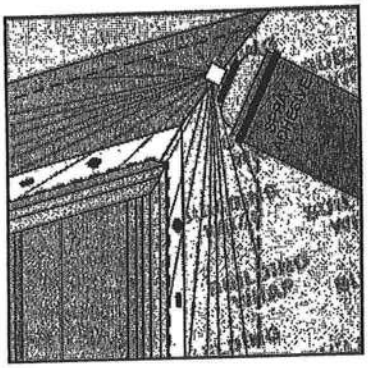
6 FLASH WINDOW - WINDOWS INSTALLED INTO STUD-FRAMING ONLY

Cut pieces of self-adhered flashing as follows:

Min. sizes or other specified	PG50 or below (4" flashing)	Above PG50 (6" flashing)
One header piece	10" longer than the header	14" longer than the header
Two side pieces	8" longer than the jamb	12" longer than the jamb

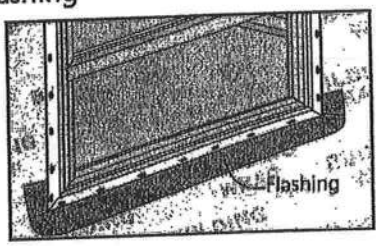
Spray Adhesive/Primer

Protect window from overspray and apply spray adhesive according to instructions on the product to nailing fin and building wrap around the window as shown.

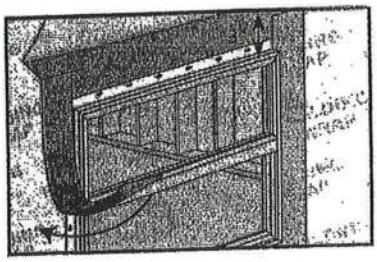


Apply the Self-Adhered Flashing

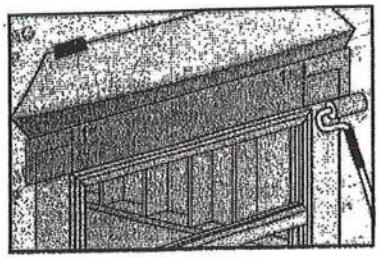
NOTE: Keep the edge of the self-adhered flashing as close to the window frame as possible and apply over the nail fin.



1. Apply the side pieces starting 3" above the header and overlap the flashing on the sill as shown.
2. Install drip cap if required. Pre-drill through the nailing fin if required.

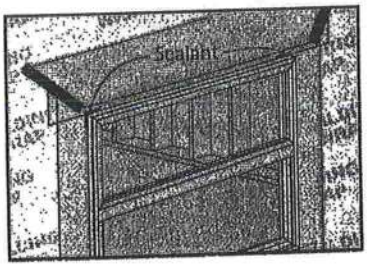


3. Center and apply the header piece above the header, overlapping the side pieces as shown.
4. Press the flashing down with a J-roller, being careful to remove any gaps or bubbles beneath self-adhered flashing (remove and replace if necessary).



7 COMPLETE INSTALLATION

1. Release the building wrap from above the header (previously taped up) and overlap the header flashing. Seal the ends with self-adhered flashing or building wrap tape.
2. Adjust window for best operation.
3. Seal the top corners of the window with a 1/4" bead of sealant. Tool into a fillet shape.



Continuous Air Seal

Create a continuous air seal on the interior by integrating the rough opening and the window frame with low expansion polyurethane foam or backer rod and sealant.

After Installation

- **Ensure weep holes/channels are clear of debris for proper water drainage. Do not seal weep holes/channels.**
- Install exterior wall surface per manufactures' guidelines.
- Leave an expansion/contraction gap of approximately 3/8" between window frame and final exterior wall surface (siding, stucco, etc.). For a finished look and additional protection, seal this gap on the sides with backer rod and sealant. If sealant is applied above the drip cap ensure the sealant bead is discontinuous to allow for drainage.
- Protect recently installed units from damage from plaster, paint, etc. by covering the unit with plastic.

Please visit jeld-wen.com for warranty and care and maintenance information.

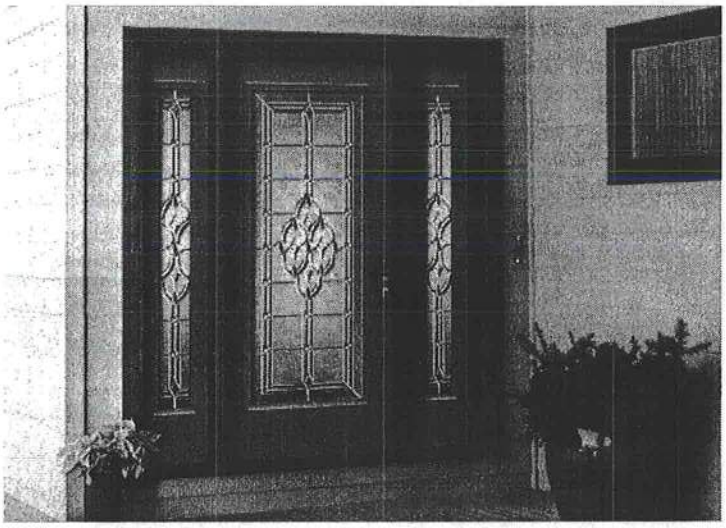
Thank you for choosing

JELD-WEN WINDOWS & DOORS

JELD-WEN WINDOWS & DOORS

INSTALLATION INSTRUCTIONS
for Pre-Hung Exterior Entry Doors (JII106)

FC 15474.3



Thank you for selecting JELD-WEN® products. Attached are JELD-WEN's recommended installation instructions for Exterior Wood, Steel and Fiberglass Pre-Hung Doors. Read these instructions thoroughly before beginning. They are designed to work in most existing applications; however, existing conditions may require changes to these instructions. If changes are needed, they are made at the installer's risk. For installations other than indicated in these instructions, contact a building professional. Areas such as Florida and the Texas TDI region have different anchoring requirements based on product certification. For information on specific products, visit www.floridabuilding.org or www.tdi.texas.gov and follow the anchoring schedule given in the drawings for the product instead of the anchoring schedule in this document.

Newer construction methods have led to an increase in air and water tightness in buildings. This frequently leads to negative air pressure inside the house, which can draw water through very small openings. Our installation method seals the door to the weather barrier (typically building wrap) and uses a sill pan to capture and drain incidental storm water from under the door.

IMPORTANT INFORMATION AND GLOSSARY

Not all exterior door types may be installed into every wall condition in all areas. See our Appropriate Protection document for overhang requirements and our Additional Requirements document for Fire Doors at www.jeld-wen.com/resources. Consult your local building code official (or Authority having Jurisdiction) for applicable building codes and regulations. Local building code requirements supersede recommended installation instructions.

Please Note! Any exterior door installation where the sill is higher than 35 feet above ground level or into a wall condition not specifically addressed in these instructions must be designed by an architect or structural engineer. Failure to install square, level and plumb and on a flat surface (without twist or warp) could result in denial of warranty claims for operational or performance problems.

Note to Installer: Provide a copy of these instructions to the building owner. By installing this product, you acknowledge the terms and conditions of the limited warranty as part of the terms of the sale.

GLOSSARY

Backer Rod (backing material)
A material (e.g. foam rod), placed into a joint primarily to control the depth of the sealant.

Buck
A wood framework attached to the masonry inside a window or a door rough opening.

Door System/Pre-Hung Door
A pre-cut and assembled unit consisting of a door slab (prepared for the locking or passage hardware) hung on hinges in a wood or metal frame.

Hinge Jamb
The side of the jamb on which the hinges of a door are installed.

Rough Opening
The framed opening in a wall where a door is to be installed.

Security Plate
A metal plate pre-installed into the frame of a pre-hung door. It is designed to provide extra strength and stability from a forced entry attempt by allowing the latch of the door to rest inside it when the door is closed.

Shiplap
The layering method in which each layer overlaps the layer below it so that water runs down the outside.

Shipping Strap
Small, metal or plastic clips that come attached to a door system. These clips help keep a door slab closed and aligned before and during installation.

Sidelite
A fixed, usually rectangular window placed on either side of a door.

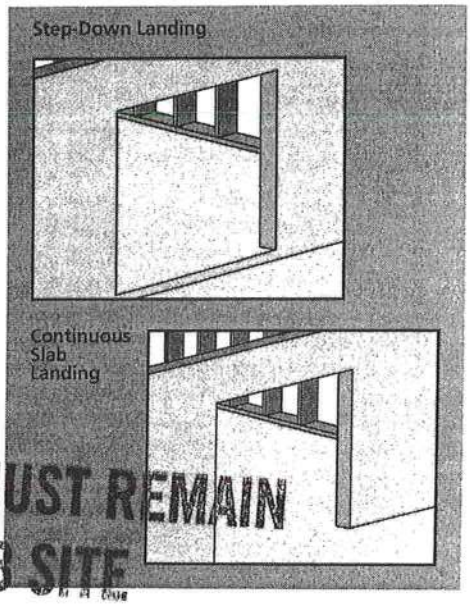
Sill Pan
A flashing component installed in the sill of the rough opening underneath the door. Sill pans have upturned walls along the interior edge and at both ends, creating a three-sided box. This component serves as a collection device to drain incidental water to the exterior of the building and should be properly sealed to the opening. The best sill pan design has a positive slope to the exterior and offers continuous support to the door's sill.

Strike Jamb
The side of the jamb that makes contact with the latch on a door slab.

Please allow sufficient time to properly prepare the rough opening, install the entry door, and ensure its proper operation.

LANDINGS

These instructions cover two sill conditions: the ***step-down landing*** and the ***continuous slab landing.*** The installation methods vary slightly between landing types.



JELD-WEN WINDOWS & DOORS

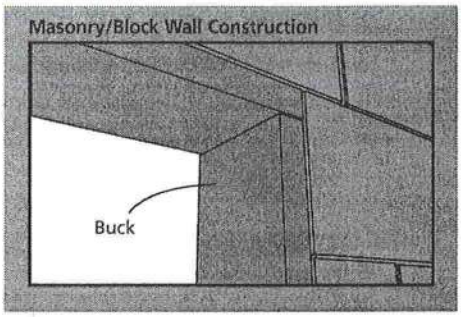
INSTALLATION INSTRUCTIONS
for Pre-Hung Exterior Entry Doors (JII106)

ROUGH OPENINGS

This installation guide specifically addresses masonry/block wall, sheathed wall and open-stud construction.

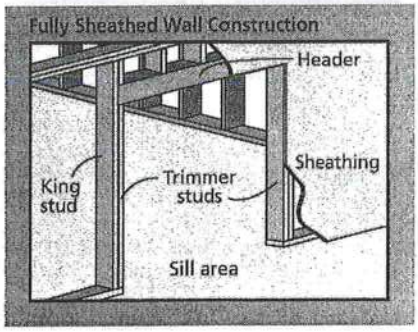
MASONRY/BLOCK WALL CONSTRUCTION

This installation assumes that a building professional has already properly fastened and sealed a framework of studs (often called a buck) to the concrete/ masonry wall.



FULLY SHEATHED WALL CONSTRUCTION

The wall framing is covered by sheathing and the door will be mounted with the exterior trim flush against the sheathing. This installation assumes building wrap is properly installed prior to installation.



OPEN-STUD CONSTRUCTION

The wall framing needs to be completely surrounded by backing support (non-water degradable, thin (max. 1/8" thick) sheet material such as plywood or lauan) before installing building wrap and the door. The door will be mounted with the exterior trim flush against the applied backing support.

SAFETY AND HANDLING

SAFETY

- Read and fully understand ALL manufacturer's instructions before beginning. Failure to follow proper installation instructions may result in the denial of warranty claims for operational or performance problems.
- Do not work alone. Two or more people are required. Use safe lifting techniques.
- Use caution when handling glass. Broken or cracked glass can cause serious injury.
- Wear protective gear (e.g. safety glasses, gloves, ear protection, etc.).
- Operate hand/power tools safely and follow manufacturer's operating instructions.
- Use caution when working at elevated heights.
- If disturbing existing paint, take proper precautions if lead paint is suspected (commonly used before 1979). Your regional EPA (www.epa.gov/lead) or Consumer Product Safety Commission offices provide information regarding regulations and lead protection.
- **WARNING:** Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Use a respirator or other safeguards to avoid inhaling wood dust.

MATERIALS AND DOOR HANDLING

- Make sure the operating panel is secured prior to installation.
- Heed material manufacturer's handling and application instructions.
- Protect adhesive surfaces from dirt, moisture, direct sunlight and folding over onto themselves.
- Handle in vertical position; do not drag on floor.
- Do not put stress on joints, corners or frames.
- Store door in dry, well-ventilated area in vertical, leaning position to allow air circulation; do not stack horizontally.
- Protect from exposure to direct sunlight during storage.
- Install only into vertical walls and when conditions and sheathing are dry.

IF INJURY OCCURS, IMMEDIATELY SEEK MEDICAL ATTENTION!

MATERIALS AND TOOLS

PROVIDED MATERIALS

- 2 - #9 x 2-1/2" screws.
- Foam weatherstrip wedges (corner seal pads).

NEEDED MATERIALS

Note! JELD-WEN exterior window and door products should be installed in accordance with JELD-WEN's recommended installation and flashing directions, which are shipped with the products or can be found on our website: www.jeld-wen.com. Note that alternative installation methods and flashing systems may be utilized at the installer's or owner's discretion and, in such situations the installation should be done in accordance with the flashing manufacturer's instructions. Follow all material manufacturer's instructions for proper use and compatibility. When using flashing, spray adhesive/ primer, sealant and foam products, we recommend using the same manufacturer and verifying compatibility. It is the End User's responsibility to determine if dissimilar materials are compatible to the substrates in the application.

- Lockset
- 10d galvanized casing nails (if plan to stain) or #8 x 2-1/2" deck screws (if plan to paint).
- Non-compressible or non-water degradable shims.
- Sill pan: It is best practice to use a pre-formed, rigid, positively sloped, pvc pan that provides continuous support. We recommend using SureSill™ Sloped Sill Pan™, manufactured by SureSill™, Ltd. An alternative would be a non-sloped pre-formed sill pan or one that can be fabricated on site from metal or vinyl sheet material with the proper tools.
- Backer rod 1/8" larger than the widest portion of the gap (used in conjunction with sealant bead).
- Sealant: We recommend OSI® QUAD® Max Sealant or equivalent. This can be used in any application and can be painted or ordered in a color matched product, if desired.
- Polyurethane low expansion Window and Door foam: We recommend OSI® QUAD® Foam or equivalent).

MATERIALS AND TOOLS - CONTINUED

- Plastic drain screen with crisscross or woven pattern (sold in 6" widths to protect rain gutters) for step-down landings.
- 3/8" staples for step-down landings.
- Drip cap, if required because of door location and exposure. Doors with an adequate overhang (see our Appropriate Protection document at www.jeld-wen.com/learn/resources/care-maintenance) may not need a drip cap.

For installations into a Buck:

- Liquid applied flashing (Protecto Wrap LWM 200 or equivalent).

For installations into a stud-framed wall:

- 4", 6", or 9" (as required by local code and window configuration) wide self-adhered flashing: We recommend OSI® QUAD® Butyl Flashing Tape or equivalent.

NEEDED TOOLS

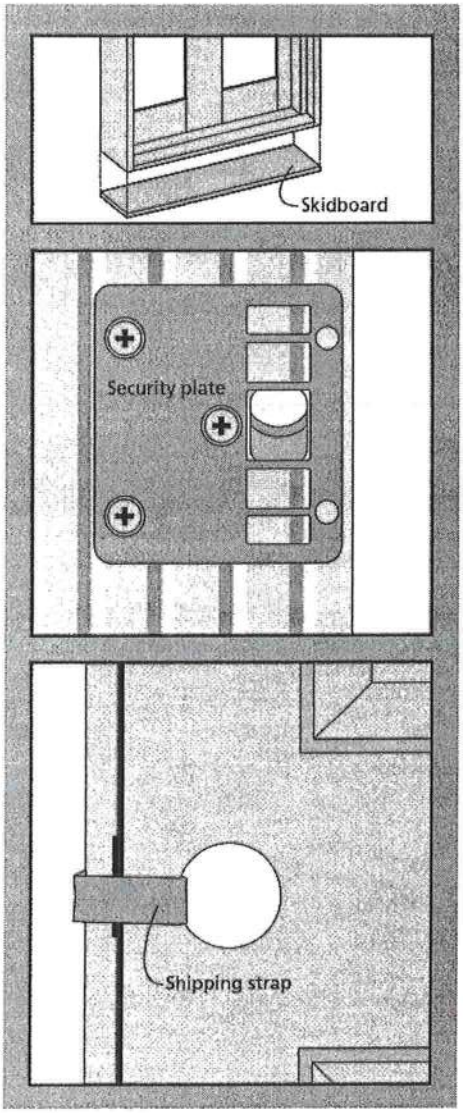
- Cutting shears (sill pan)
- Tape measure
- Utility knife
- Level (4 ft. minimum recommended)
- J-roller
- Caulking gun
- Drill with bits
- Construction stapler
- Hammer
- Screwdrivers
- Nail set
- Square
- Pencil
- Pry bar
- Small punch or magnet

1 REMOVE PACKAGING AND INSPECT DOOR

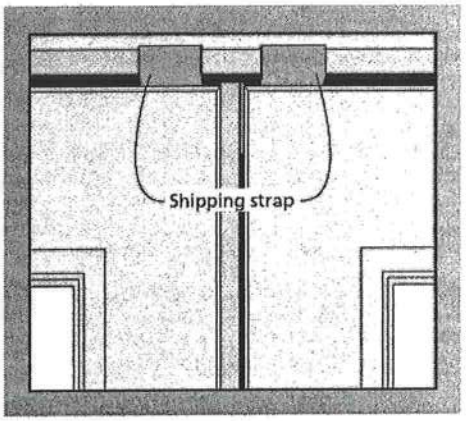
REMOVE PACKAGING

Remove shipping materials such as corner covers, shipping blocks or pads. Remove any staples exposed on the frame, but leave glass protective films.

1. If the door unit includes packaging or a skidboard under the threshold and bottom end of the side jamb, remove it. If the door comes with a security plate on the outside of the frame at the strike, DO NOT remove it. Install the door with the security plate attached.
2. If the door is fastened closed with a duplex nail or removable plastic plug, remove these along with the packaging and crating.



Note! If the door has shipping straps, DO NOT remove them until instructed to do so. These hold the door system aligned and closed during installation.



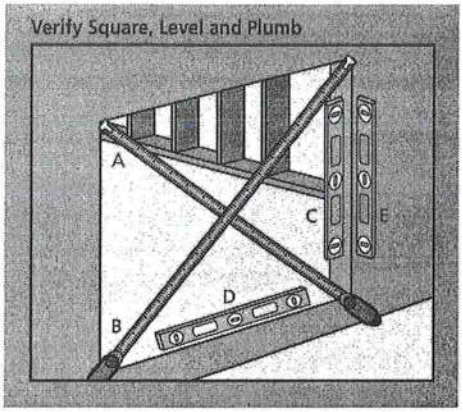
INSPECT DOOR

- Cosmetic damage.
- Product squareness (diagonal measurements must be within 1/4" difference).
- Correct product (size, color, grid pattern, handing (side the hinges are on), glazing, energy-efficiency requirements, etc.).

If any of the above conditions represent a concern, or if you expect environmental conditions to exceed the door's performance rating, do not install the door. Contact your dealer or distributor for recommendations.

2 INSPECT ROUGH OPENING

- Determine prior to installation what the actual finish floor height will be and adjust the rough opening if needed to accommodate a taller unit height. Most doors use a 1-3/8" high threshold which provides adequate clearance in most applications. This ensures that the door does not drag on interior floors after installation.



- Verify the door is 1" narrower and 3/4" shorter (1/2" each smaller if code requires) than the rough opening width/height. 90-minute fire doors should be 1-1/4" narrower and 5/8" shorter.
- Verify the rough opening is square. The (A) and (B) measurements should be the same. Maximum allowable deviation from square is 1/4".
- Verify the rough opening is plumb (C, E and D). The maximum allowable deviation is 1/8".
- The rough opening sill must not be crowned or sagged (D), but rather be level or sloped (positive slope) to the exterior.
- The exterior face of the rough opening must be in a single plane (E) with less than 1/8" twist from corner to corner.
- Minimum double studs should be used at all wood framed rough openings.
- The header must be supported by trimmer studs.

FOR RETROFIT INSTALLATIONS

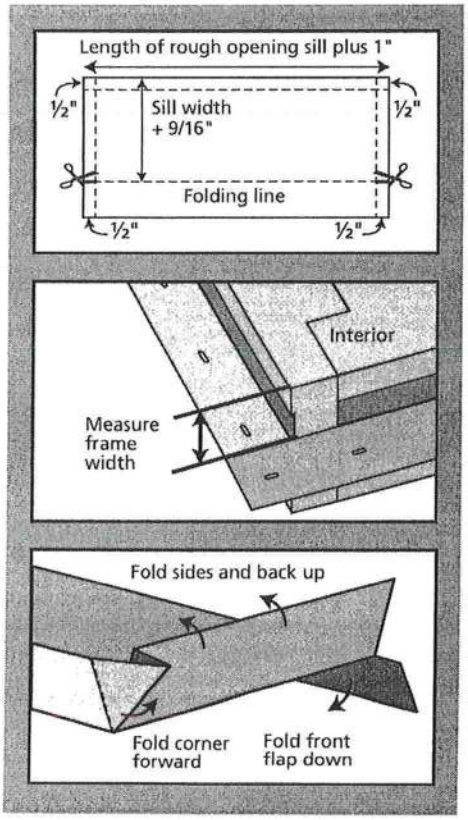
After removing the old door, remove sufficient cladding (siding, stucco, etc.) to expose enough intact building wrap to properly seal the door system to the opening. If damaged, apply new building wrap in shiplap manner. Verify the rough opening framing is structurally sound. Contact your local waste management entities for proper disposal or recycling of products being removed.

3 INSTALL SILL PAN

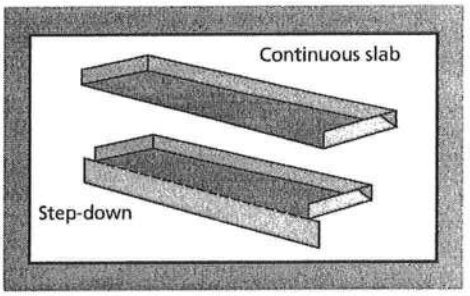
The sill can be prepared using one of two methods: We recommend SureSill™ Sloped Sill Pan™ available from SureSill at www.suresill.com, building supply stores, and some manufacturing locations. As an alternative, a sill pan can be fabricated on site, by following the instructions below. If installing a SureSill™ sill pan, follow SureSill's instructions for installation and **skip to section 5 "PREPARE STUD-FRAMED WALL".**

JOBSITE FABRICATED SILL PAN

1. Cut a piece of sheet material to the length shown.
2. Lightly crease folding lines 1/2" in from the two short sides and one long side.
3. Measure the distance from the back of the trim to the interior edge of the sill and add 9/16".
4. Take this distance from the back edge and lightly crease a folding line across the sheet material.
5. For step-down landings, cut 1/2" in at this line on both sides of the sheet material.

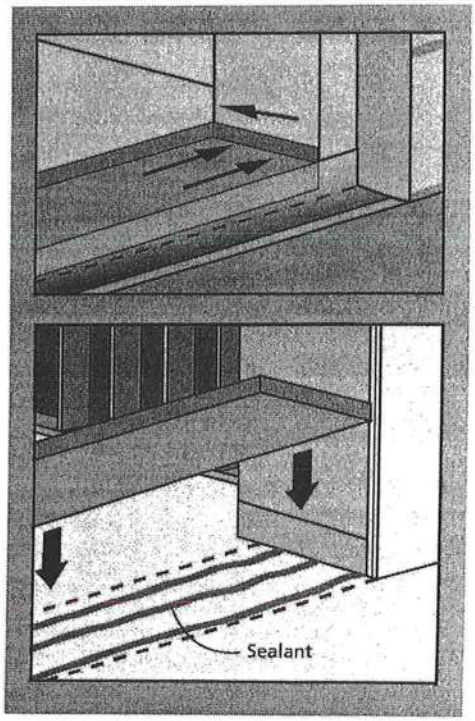


6. For continuous slab, cut across the folding line.
7. Fold the three back sides up to make a 3-sided box, and, for step-down landings, fold the front flap down.



INSTALL SILL PAN

1. Set the sill pan in the rough opening, aligning the front edge (for continuous slab) or folded down edge (for step-down) with the exterior of the rough opening.
2. Mark a line across the front and back of the sill pan.
3. Apply three 3/8" beads of sealant between the lines.
4. Place the sill pan in the rough opening. Firmly press the sill pan into the sealant with a J-roller.

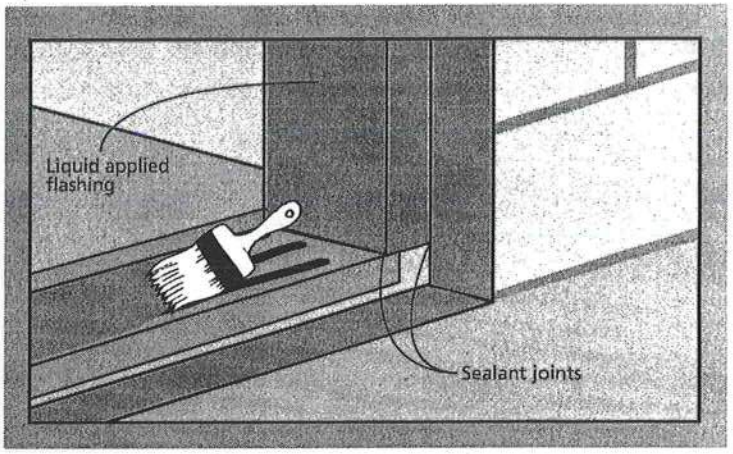


4 PREPARE BUCK

Note! This section applies to installations into a buck only. For installations into a stud-framed wall, begin with section 5, "PREPARE STUD-FRAMED WALL."

1. Seal any joint larger than 1/16" in the buck and between the buck and the concrete/masonry with sealant.
2. Cover the buck and the surrounding concrete/masonry at the head and jambs and sill with liquid applied flashing as shown.

END of Buck Instructions, SKIP to section 6, "INSTALL DOOR."



5 PREPARE STUD-FRAMED WALL

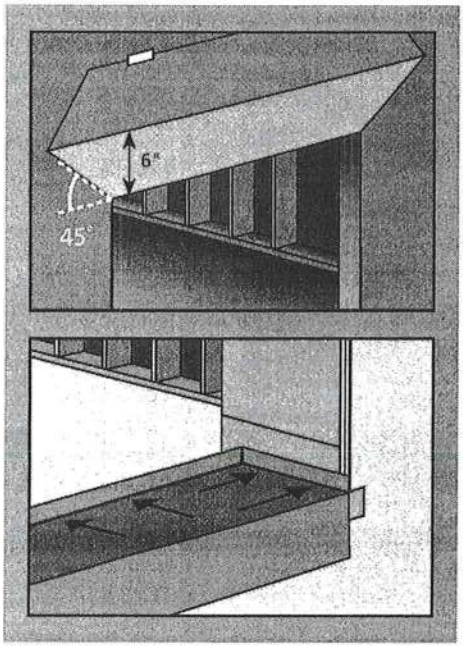
FOR RETROFIT INSTALLATIONS

After removing the old door, remove sufficient siding to expose at least 9" of intact building wrap. If damaged, apply new building wrap in a shiplap manner. Verify header and trimmer studs are structurally sound.

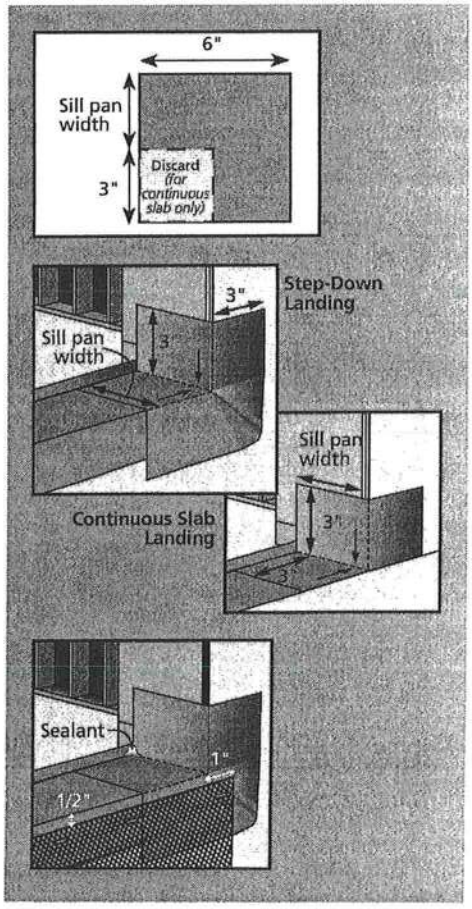
PREPARE BUILDING WRAP

Verify these steps are allowed by the building wrap manufacturer.

1. Trim building wrap flush with the edges of the rough opening.
2. If installing a drip cap, (recommended because this integrates the building wrap and drip cap to protect the structure and the product from incidental water) at the head, slit building wrap 6" at 45°. Tape up as shown.
3. Trim the sides sufficiently to allow the nailing fin to be mounted against the sheathing.
4. Apply spray adhesive/primer to the sill pan and surrounding area. Follow manufacturer's instructions for application methods.
5. Cut a piece of self-adhered flashing the length of the sill and apply over the sill pan as shown. The bottom of the sill pan should be completely covered by the self-adhered flashing. For step-down landings, fold flashing down as shown. For continuous slabs, trim flush with rough opening.



6. Cut two pieces of self-adhered flashing 6" wide by the sill pan width + 3" long.
   a. For continuous slab landings only, cut out the inside corner.
   b. Adhere the pieces of flashing to the inside corners. Stretch flashing as needed to cover corners and lay flat.
7. Smooth gaps or bubbles beneath self-adhered flashing with a J-roller (remove and replace if necessary).
8. Seal back corners of sill pan with sealant.
9. For step-down landings only, cut plastic drain screen to length of sill + 2" and staple 1/2" below sill edge. The drain screen provides a path for air to dry any incidental moisture in the rough opening.



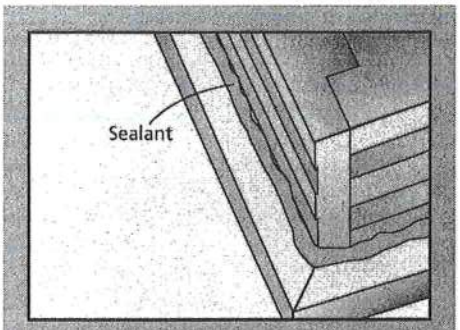
End of Stud-Framed Wall Instructions, continue with section 6, "INSTALL DOOR."

6 INSTALL DOOR

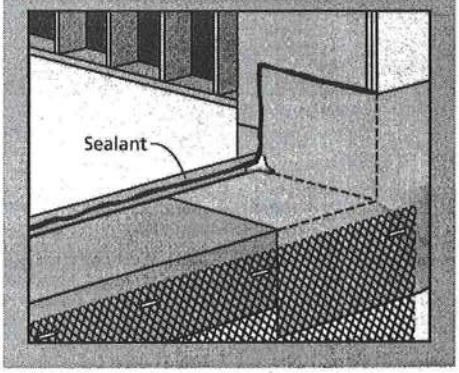
Warning! To avoid injury, use at least two people to install. Adequately support the door until fully installed.

PREPARE DOOR

1. On the interior side, apply a continuous bead of silicone sealant where the exterior trim meets the door frame as shown. Tool into a fillet shape.



2. Apply a 3/8" continuous bead of sealant across the sill pan back dam and over the flashing joints as shown.

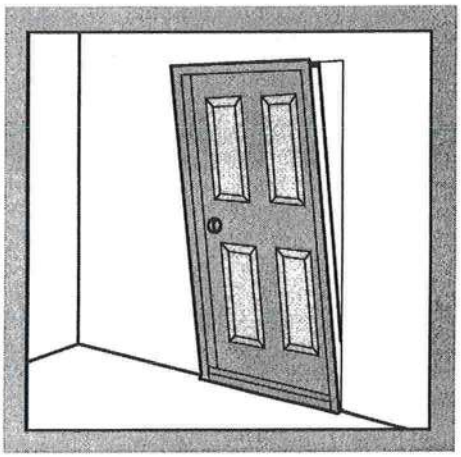


INSTALL DOOR

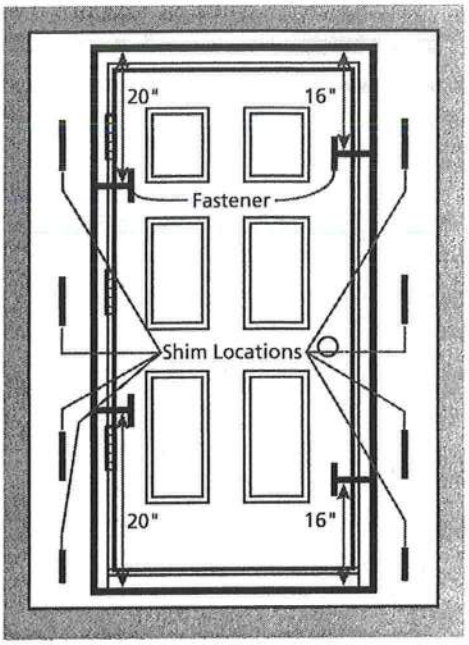
WARNING! If installing fasteners through fiberglass components, we recommend pre-drilling holes to keep the fiberglass from splitting.

Note! This section covers single door, double door, and doors with a transom or a sidelite(s) already installed by the factory.

1. Remove any pre-hanging clips that are fastened to the outside of the jamb that will be covered when the unit is placed in the rough opening. Adequately support the slab to keep it from swinging open during installation.
2. For units with brickmould trim, apply a 3/8" bead of sealant to the back of the trim where it will contact the structure. From the outside, tilt the entire pre-hung door into the center of the opening. Make sure the sill contacts the sealant on the sill pan back dam (upturned leg on the interior).



3. Temporarily fasten the door as follows. For metal frames, drive a nail or screw through one lower hole in the flange. For doors without a sidelite(s), secure the hinge jamb by placing one 10d casing nail (or one #8 x 2-1/2" deck screw) horizontally centered in the hinge jamb or brickmould trim 20" from the top and bottom (or just above the lower hinge) of the door. Do not set nails/screws. For appearance reasons, fasteners can be driven behind (but not through) the weatherstrip if desired. Secure sidelite(s) in a similar manner through the frame and into the wall.



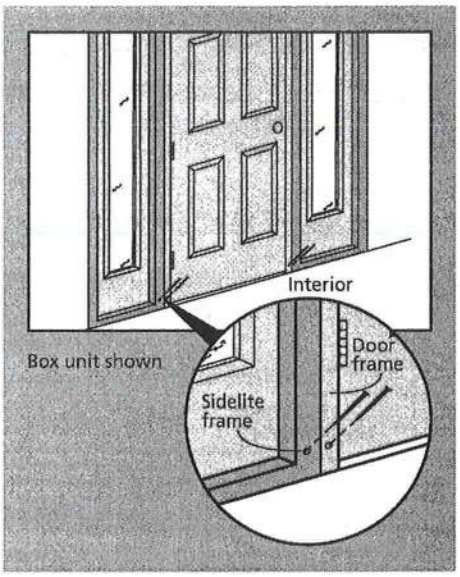
4. From the inside, shim the jambs as follows: One shim on each end of the sill (between jamb and sill, not under sill). Single/double units at each hinge location and at the strike plate. Units with sidelites, between the sidelite and wall in at least 3 places until the door is square in the opening.
5. For doors with metal frames, secure with nails or screws through the provided holes in the frame either above or below every oval slot. For all other doors, temporarily fasten the latch jamb by placing one 10d casing nail (or one #8 x 2-1/2" deck screw) horizontally centered in the latch jamb 16" from the top and bottom of the door. Do not set nails/screws.
6. Verify the door unit is square, then securely fasten the hinge jamb by setting the two nails or screws installed earlier. Add an additional nail or screw centered between the first two and one 4" from each corner.
7. Remove any remaining pre-hanging clips. Be sure the door opens freely and that the space between the door and the jamb is even on all sides. Adjust if necessary by loosening or removing the strike jamb fasteners and adjust until there is even contact between the slab and weatherstrip. Secure all fasteners.

DOUBLE DOOR, SIDELITE OR TRANSOM INSTALLATIONS

1. If installing a door with a sidelite(s), shim the head on both sides of the joint where the sidelite joins the door jamb. Fasten next to the shims and then remove shims.
2. Shim the head of double door units or units with sidelite(s) at the center of each slab/sidelite. Fasten next to the shims and then remove shims. Fasten a transom in a similar manner every 16".

6 INSTALL DOOR - CONTINUED

3. From the inside of doors with sidelites installed on a wood floor, pre-drill for #8 screws and fill the holes with sealant. Drive two #8 x 2-1/2" deck screws through each door jamb and sidelite into the floor in the locations shown.
4. Some double door units may require installing lock bolts at the top and bottom of the inactive panel. Follow the instructions that come with the product if available. Otherwise, locate the center point of each lock bolt, drill 3/8" bolt holes and install keeper plates.

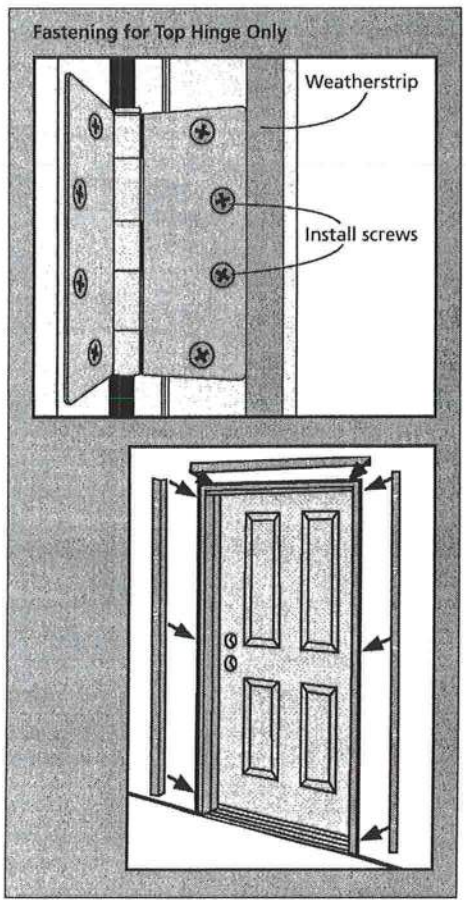


FINISH INSTALLATION

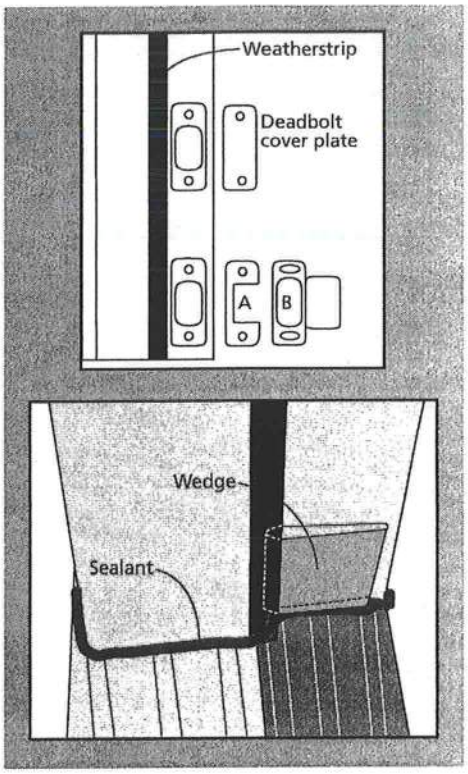
1. Re-check for smooth door operation and even spacing between the door and jamb. Secure the strike jamb evenly between the first two already in place with two more 10d casing nails (or #8 x 2½" deck screws) behind the weatherstrip.

Note! Steps 2 and 3 apply only to units with hinge jamb(s) against the rough opening.

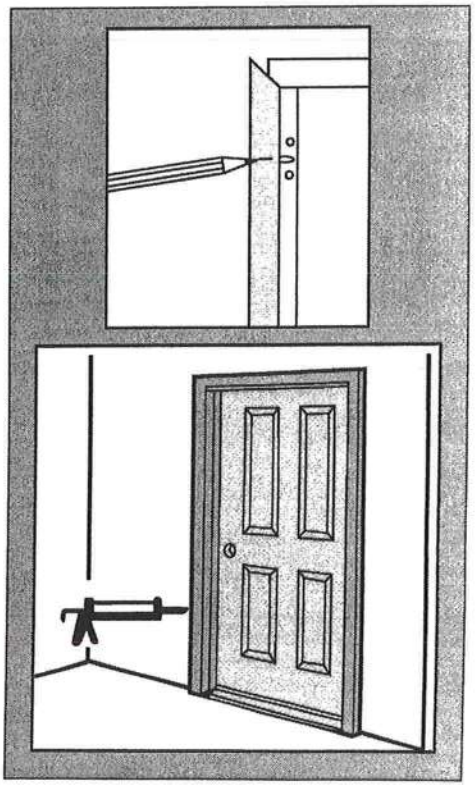
2. Install two provided #9 x 2-1/2" wood screws in the top hinge through the two holes closest to the weatherstrip, driving them through the hinge jamb and into the studs. If necessary, remove the screws already in the hinges to insert these longer screws.
3. If installing a door with a metal frame, on the exterior, slide the "L" shaped head piece into the inner section and center it in the opening. Install the jamb pieces making sure they are tight against the head piece and rough opening. Secure with fasteners through the provided holes.



4. If installing a door with a metal frame and adjustable T-Strike, place A over B and place in the bore in the frame. Install screws but do not tighten. Close door and push B inward until the door slightly compresses the weatherstrip. Open door and tighten screws.
5. At the sill, pull the weatherstrip up slightly and apply a bead of sealant (behind the weatherstrip) at the intersection of the jambs, brickmoulds, thresholds and floor as shown. The included foam wedges are used to complete the weatherstrip seal at each bottom corner between the jamb and operating slab(s) when closed. Position the thick edge behind the weatherstrip, remove the backing paper and adhere to the jamb as shown.



6. Install drip cap if required or desired. Fold the building wrap (previously taped up) down over the drip cap and seal the cut ends with self-adhered flashing or building wrap tape.
7. For metal frames, apply casing to both sides. Mark the locations of the oval slots in the frame onto the casing and secure casing with fasteners through the oval slots. For snap on steel casing, refer to the instructions with the clips.
8. Apply sealant around the outside of the door unit between the siding and brickmould, between the brickmould and the jamb and between the jamb sides and the threshold. Apply a discontinuous bead of sealant (1/2" gap every 1') along the front side of the threshold.



6 INSTALL DOOR - CONTINUED

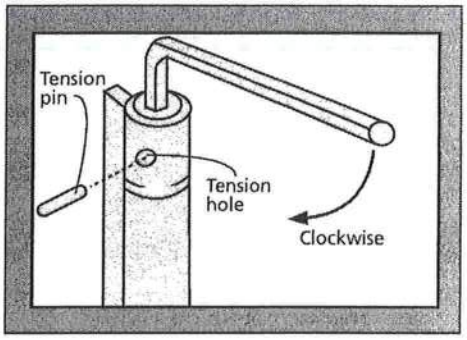
FINISH INSTALLATION - CONTINUED

9. Create a continuous air seal on the interior between the rough opening and the door frame with low expansion foam.
10. Ensure sealant on back dam of the sill pan fully seals to the inside face of the sill. Apply more sealant as necessary.
11. On the exterior of step-down landings, install support trim underneath the sill where it extends past the landing. Position trim snugly against the bottom of the sill toe/nose.

FIRE DOOR HINGES

Do not remove or paint over any fire labels. Please see our separate document for additional requirements for installing fire-rated doors at www.jeld-wen.com/resources. Automatically closing hinges are required on fire doors and when allowed to close by themselves from 18", should close and latch securely. If it does not, adjust the spring as follows:

1. With the door closed, insert the provided hex wrench so that it can be rotated clockwise. Hold in place and remove tension pin with a small punch or magnet.
2. Rotate hex wrench clockwise 1/4 turn and re-insert tension pin loosely into tension hole.



3. Remove hex wrench and try closing force.
4. Repeat steps until closing force is adequate but do not rotate past 3 holes on 180° openings or 4 holes on 90° openings.

7 COMPLETE INSTALLATION

1. If installing a fire door, verify the correct seal (weatherstrip) is installed in the frame and conforms to local codes.
2. Fill any nail/screw holes and sand smooth.
3. Finish all six sides of the door slab as well as the frame.
4. Install exterior wall surface within seven days of installation.
5. Install lockset hardware per supplied instructions.
6. Remove protective film (if applicable) on glass after all construction is complete or within one year.
7. Protect recently installed units from damage from plaster, paint, etc. by covering the unit with plastic.
8. Install any interior trim as desired.
9. Sealant joints will need to be inspected at least once a year and repaired as necessary.

Please visit jeld-wen.com for warranty and care and maintenance information.

Thank you for choosing

JELD-WEN WINDOWS & DOORS

(06/15)

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

04171-001

Clerk's Office Stamp

Inst: 202412004171 Date: 02/29/2024 Time: 12:15PM
Page 1 of 1 B: 1509 P: 630, James M Swisher Jr. Clerk of Court
Columbia, County, By: VC
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):*
   a) Street *(job)* Address: 504 SW Phoenix Glen Fort White 32038
2. General description of improvements: SFR
3. Owner Information or Lessee information if the Lessee contracted for the improvements:
   a) Name and address: Mack Strawder
   b) Name and address of fee simple titleholder (if other than owner) Same as above
   c) Interest in property Owner
4. Contractor Information
   a) Name and address: Owner Same as above
   b) Telephone No.:
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:
   b) Phone No.
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(l)(b), Florida Statutes:
   a) Name: OF
   b) Telephone No.:
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. Mack Strawder
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

Mack Strawder
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, by means of ☒ physical presence or ☐ online notarization, a Florida Notary, this 28 day of Feb, 20 24, by: Mack (Name of Person) as Self (Type of Authority)

for (name of party on behalf of whom instrument was executed) who is personally known ☐ OR produced identification ☒

Type ID FL DL

Notary Signature

(Notary Stamp or Seal)

NEONTA ANDERSON
MY COMMISSION # HH 467688
EXPIRES: November 28, 2027