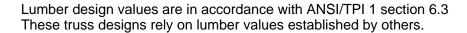


Builders First Source - Lake City

2525 East Duval St, Lake City FL 32055

Phone: 386-755-6894 Fax: 386-755-7973

Data	9/24/2021							
Date:	8/24/2021 Housecraft Homes				Dhe	no #:		
Customer: Job Name:	Anderson Res.				PIIC	one #:		
Jobsite Address:	Alachua Cty							
Pitch:		Loadings	Shingle		Quoted By	,	Kim Holloway	
Top Chord:	TC 6:12 / Flat Clg. 2x4	Loading:	4" & 8"		Sales Rep		Kim Holloway	
	24"	Bearing:	24"		Sales nep	•	Killi Holloway	
Overhangs:	24	Spacing:	24					
	De	etails					Price	
	ROOF TRU TRUSS TO TRU	JSSES WITH SS CONNECT	TORS				Roof Trusses	\$9,960.00
Note: Hip a	des hangers for truss to truss, truss Bid does NOT include tie Valley blocking, Overhang Blocking, T Price Quoted is valid onl and delivered within Price is subject to char	downs, nails or russ Bracing (To y if accept 60 days of age outsid	truss clips. emporary or Permanent) Noted within 7 days date quoted. e of these terms.	ot Included.		1		\$9,960.00 \$647.60 \$10,607.60 ST BE SIGNED ITHIN 7 DAYS
To place th	is order, please sign and fully complete Email To: kim.holloway@bld			proposal to:				
	ustomers: A non-refundable 20% Deposit require stomer is responsible to notify Builders	d for truss layout, b		ication. Once order is receive ery of any mold, mildew	ed in truss office 1, termites, da	, a truss lay amaged t	yout and truss profiles will be pro trusses or missing material	0
Cus	Order accepted by, or in production by BFs stomers on Account: upon cancellation, a fe BFS will not be liable	S, its affiliates, su e of 20% of the to for back charges		r assigns cannot be chang arged for Placement Plan a ntative before the work cre	jed or cancelle and/or Truss P ating any char	ed except a Profiles (do nge is per	at the expense of purchaser. bes not apply to cash custome formed.	rs.)
		<u></u>						
X							AGREED	
Customer Authorized S	ignature Above 'urchaser (Print Name Above)		Date Requested Delivery Date			BFS	, subsidiaries and/or assigns a components as described	
Gustomer Authorized P	aremaser (1 time Name Above)		requested Delivery Date				Kim Hollow	rav
Customer Contact for D	Pelivery Scheduling (Print Name Above)		Phone #				BFS Authorized b	0
								•
Email Address							8/24/2021 Date	
Zilian riuuress	Price Quoted is valid only if accepted	within 7 days or	ad delivered within 60 days	of data quoted Price	is subject to	change o		



Detail Name

MII-VALLEY SP MII-VALLEY SP

MII-GE146-001

MII-STRGBCK

MII-REP13B

MII-VALLEY HIGH WIND2 4/2/21



RE: 2718981 - DETAILS

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

Date

4/2/21 4/2/21

4/2/21

Site Information:

Customer Info: DETAILS Project Name: N/A Model: N/A Lot/Block: N/A Subdivision: N/A

Address: N/A, N/A

City: N/A

State: N/A

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 8.4

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

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 20 individual, General Truss Details 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.

> Seal# T23399820

T23399821 T23399822

T23399823

T23399824 T23399825

No.	Seal#	Detail Name	Date	No.
1	T23399806	MII-REP10	4/2/21	15
ż	T23399807	MII-T-BRACE 2	4/2/21	16
3	T23399808	MII-SCAB-BRACE	4/2/21	17
4	T23399809	MII-REP05	4/2/21	18
2 3 4 5 6 7	T23399810	MII-GE130-D-SP	4/2/21	19
Ğ.	T23399811	MII-GE130-SP	4/2/21	20
7	T23399812	MII-GE140-001	4/2/21	
8	T23399813	MII-GE170-D-SP	4/2/21	
8 9	T23399814	MII-GE180-D-SP	4/2/21	
10	T23399815	MII-GE180-D-SP	4/2/21	
11	T23399816	MII-PIGGY-ALT-7-16	4/2/21	
12	T23399817	MII-REP01A1	4/2/21	
13	T23399818	MII-TOENAIL_SP	4/2/21	
14	T23399819	MII-VALLEY HIGH WIND1	4/2/21	

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature.

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-Jacksonville.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

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 USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



RE: \$JOBNAME - \$JOBDESC

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: \$SI_CUSTOMER Project Name: \$SI_JOBNAME Model: \$SI_MODEL Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV Address: \$SI_SITEADDR

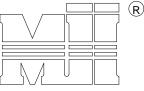
City: \$SI_SITECITY State: \$SI_SITESTATE OCTOBER 28, 2016

STANDARD REPAIR FOR ADDING A FALSE BOTTOM CHORD

MII-REP10 T23399806

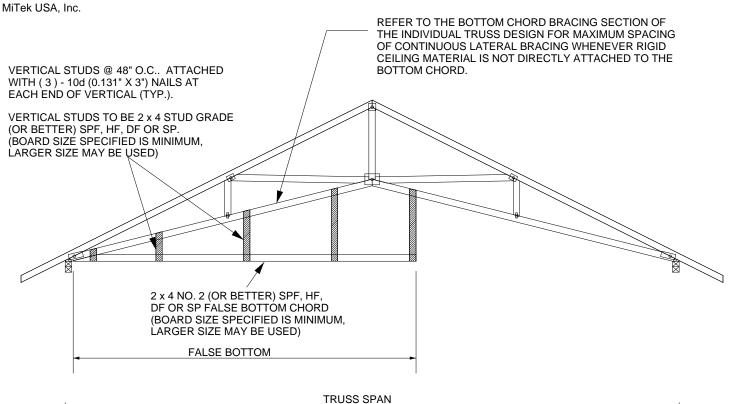
MiTek USA, Inc.

Page 1 of 1



MAIN TRUSS MANUFACTURED WITHOUT FALSE BOTTOM CHORD.

MAIN TRUSS (SPACING = 24" O.C.)



NOTES:

- 1. LOADING: TOP CHORD: (REFER TO THE MAIN TRUSS DESIGN FOR TOP CHORD LOADING). BOTTOM CHORD: LL = 0 PSF, DL = 10 PSF.
- 2. REFER TO THE MAIN TRUSS DESIGN FOR LUMBER AND PLATING REQUIREMENTS.
- 3. MAXIMUM BOTTOM CHORD PITCH = 6/12.
- 4. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
- 5. FALSE BOTTOM CHORD ONLY DESIGNED TO CARRY VERTICAL LOAD. NO LATERAL (SHEAR) LOAD ALLOWED.
- 6. FILLER MAY EXTEND FOR FULL LENGTH OF TRUSS.

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T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2 T23399807

MiTek USA, Inc.

Page 1 of 1



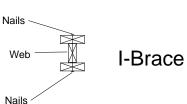
Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern						
T-Brace size Nail Size Nail Spacing						
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.				

Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

	Nails
WEB	SPACING
	T-BRACE
Nails \	Section Detail T-Brace Web



	Brace Size for One-Ply Truss				
	Specified Continuous Rows of Lateral Bracing				
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace 2x8 I-Brace				

	Brace Size for Two-Ply Truss				
	Specified Continuous Rows of Lateral Bracing				
Web Size	1 2				
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace 2x6 I-Brace				
2x8	2x8 T-Brace 2x8 I-Brace				

T-Brace / I-Brace must be same species and grade (or better) as web member.

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April 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



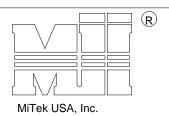
6904 Parke East Blvd. Tampa, FL 36610

SCAB-BRACE DETAIL

MII-SCAB-BRACE T23399808

MiTek USA, Inc.

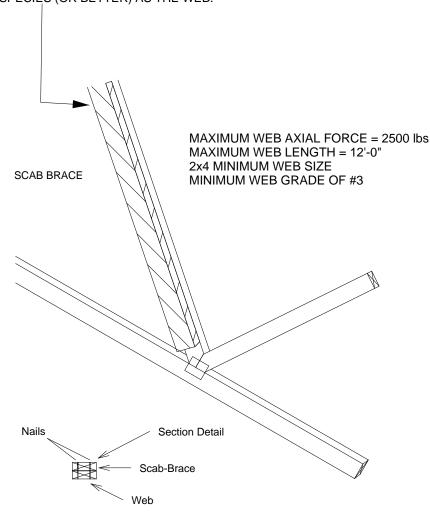
Page 1 of 1



Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical. Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APLICABLE WHEN BRACING IS *** REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

SCAB TO ONE FACE OF WEB WITH APPLY 2x 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.

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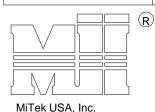
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



STANDARD REPAIR TO REMOVE END **VERTICAL (RIBBON NOTCH VERTICAL)**

MII-REP05 T23399809

MiTek USA, Inc. Page 1 of 1

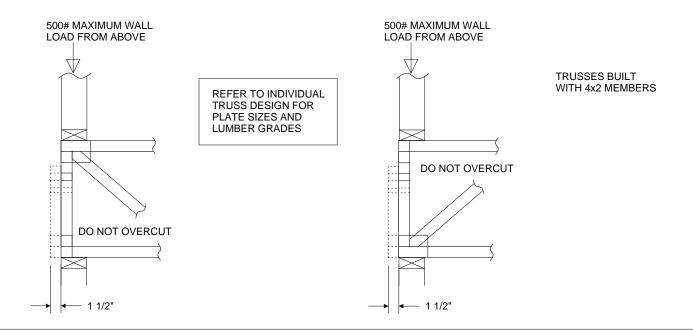


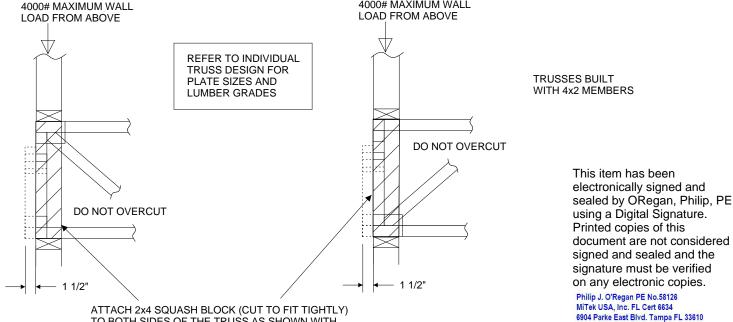
- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE
- APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE
- SUCH AS TO AVOID SPLITTING OF THE WOOD.

 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ ORIENTATION ONLY.
- 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





4000# MAXIMUM WALL

TO BOTH SIDES OF THE TRUSS AS SHOWN WITH 10d (0.131" X 3") NAILS SPACED 3" O.C.



NOTE:

Standard Gable End Detail

MII-GE130-D-SP T23399810

Page 1 of 2

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

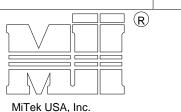
HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS

NAILS AND ATTACHED

MiTek USA. Inc.



Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. 2x6 Stud or 2x4 No.2 of better Iorizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST

TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END.

ATTACH DIAGONAL BRACE TO BLOCKING WITH

(5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD

(2) - 10d/

NAILS

SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3"

Max.

Diag. Brace

at 1/3 points

End Wall

if needed

DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. 12 Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA ** 3x4 = - Diagonal Bracing - L-Bracing Refer ** Refer to Section A-A to Section B-B 24" Max

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
and Grade		Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7		
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13		
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1		

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum

end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D

ASCE 7-10, ASCE 7-10 130 MPH

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DURANION OF COAD INCREASE LIFE AS OF READ NOT CONNECTION OF BRACTING IS BASED ON MY FIRST. 519/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd

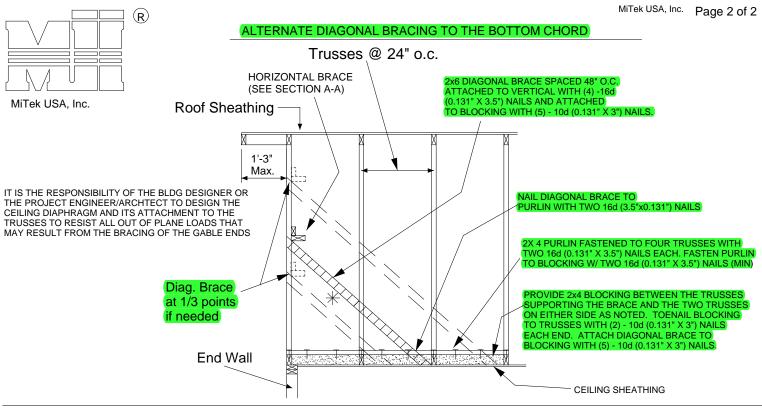
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on any electronic copies.

Standard Gable End Detail

MII-SHEET 2 T23399810



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

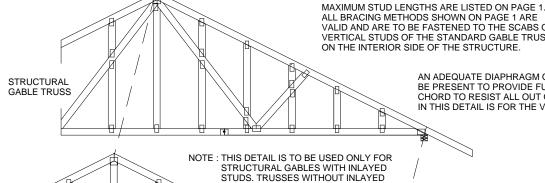
METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

FOLLOWING NAILING SCHEDULE.

METHOD 2: ATTACH 2X_SCABS TO THE FACE OF EACH VERTICAL
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

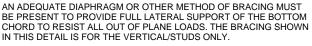
NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL
MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)



VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.

SCAB ALONG VERTICAL



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INLAYED STUD

STRUCTURAL

GABLE TRUSS

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

STUDS ARE NOT ADDRESSED HERE.

STANDARD

GABLE TRUSS

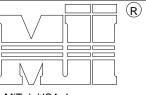


Standard Gable End Detail

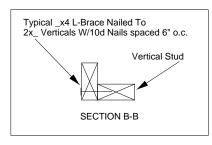
MII-GE130-SP T23399811

Page 1 of 2

MiTek USA, Inc.



MiTek USA, Inc.



DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS 4'-0" O.C. MAX SHOWN ARE FOR ILLUSTRATION ONLY. 12 Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 = - Diagonal Bracing - L-Bracing Refer Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

2 NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB

OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

- GABLE STUD DEFLECTIÓN MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
 DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR
- TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Roof Sheathing	
24" Max 1'-3" Max.	(2) - 10d NAILS (2) - 10d NAILS Trusses @ 24" o.c
Diag. Brace at 1/3 points if needed	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.
End Wall	HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade		Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6	
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1	
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C

ASCE 7-98, ASCE 7-02, ASCE 7-05, 130 MPH

ASCE 7-36, ASCE 7-20 ISO MPH

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DURANION OF GABUNGREASE 1914.60 READ NOT CONNECTION OF BRACTINGRS BASED ON MWFRS. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

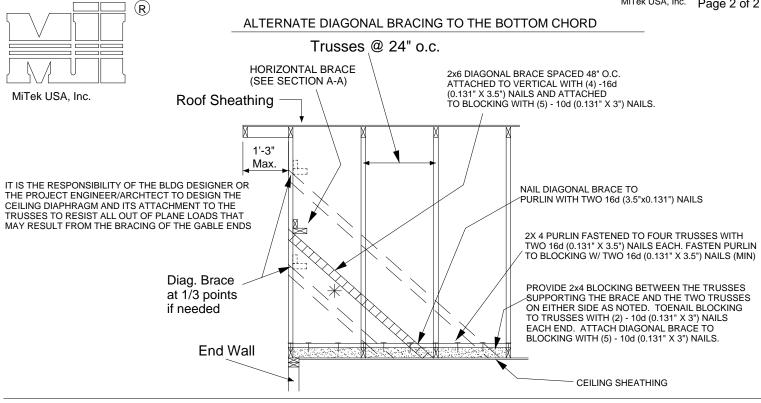
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MiTek USA, Inc. Page 2 of 2



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE

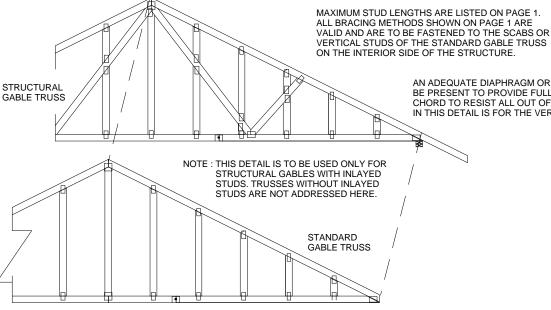
FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

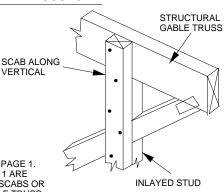
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.

- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, Ó2, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



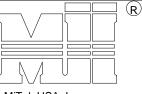
JANUARY 6, 2017

Standard Gable End Detail

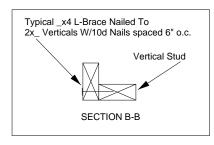
MII-GE140-001 T23399812

Page 1 of 2

MiTek USA, Inc.



MiTek USA, Inc.



DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. 4'-0" O.C. MAX Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =Diagonal Bracing ** - L-Bracing Refer Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
- 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C. 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

	Roof Sheathi	ng —			
24" Max	1'-3" Max.	(2) - 1 NAILS	0d 33	Truss	(2) - 10d NAILS
at 1	g. Brace /3 points eeded	/ / /	ATTACHED NAILS AND	TO VERTICA	SPACED 48" O.C. AL WITH (4) -16d - 10d NAILS.
	End Wall			IORIZONTA SEE SECTI	

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade		Maximum Stud Length					
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4	
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11	
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C

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April 2,2021

ASCE 7-98, ASCE 7-02, ASCE 7-05

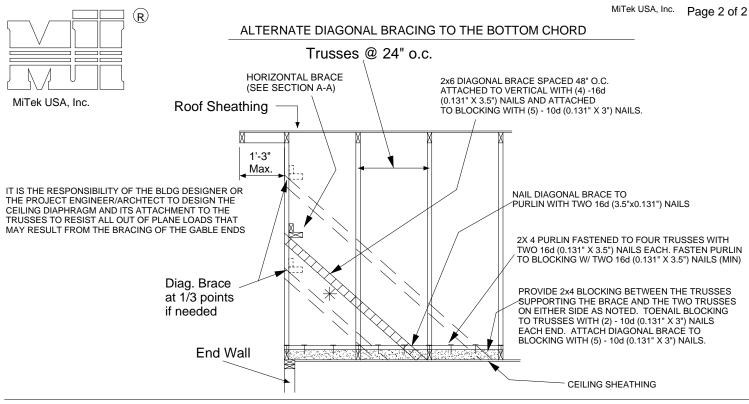
DURANON-OFIGOAD/INGREASE::pt.6:0 REAP GONNECTION IOFISBASED ON COMPONENTS AND CLADDING.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

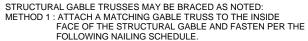
ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES



METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL

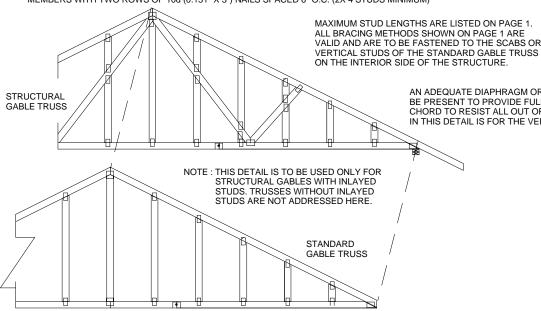
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING

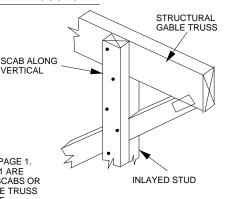
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAÎLS SPACED 6" O.C. (2X 4 STÚDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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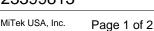
April 2,2021





Standard Gable End Detail

MII-GE170-D-SP T23399813





2x4 Verticals W/10d Nails spaced 6" o.c. Vertical Stud

3x4 =

24" Max

SECTION B-B DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

**

- L-Bracing Refer

to Section B-B

Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails **SECTION A-A** 2X4 SP OR SPF No. 2

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

10d/

NAILS

Roof Sheathing

1'-0"

Max.

NOTE:

- Diagonal Bracing

Refer to Section A-A

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND

**

- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

at	iag. Brace 1/3 points needed	
	End Wall	\ \ \$I
DIAGONAL BRACES AT /3 POINTS		

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS				
and Grade			Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4				
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3				
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13				
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7				
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5				
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14				
. 1 .				-					

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

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(2) - 10d NAILS

∕Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED

BLOCKING WITH (5) -10d NAILS.

48" O.C. ATTACHED TO VERTICAL WITH

HORIZONTAL BRACE

(SEE SECTION A-A)

(4) -16d NAILS, AND ATTACHED TO

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April 2,2021

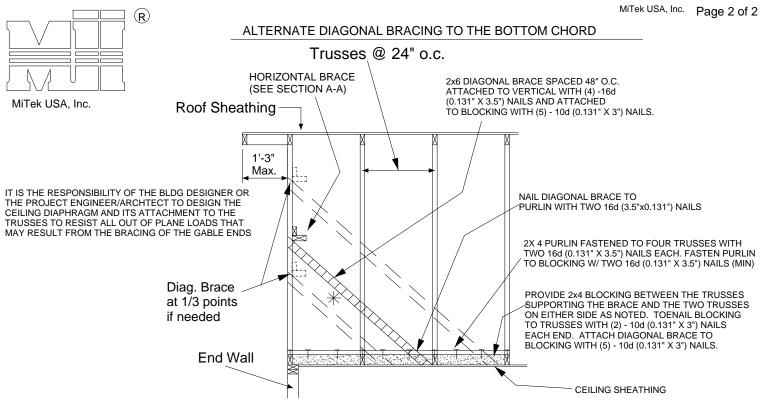
MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

TUD DESIGN IS BASED ON COMPONENTS DURATION OF LOAD INCREASE: 1.60
WARNING - Verify design parameters and READ NOTE CONNECTION OF BRACING IS BASED ON MAYERS: 5/19/2020 BEFORE USE

Design valid for use only with MITek® connectors. This design is based only upon parameters and roperly incorporate this design in the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

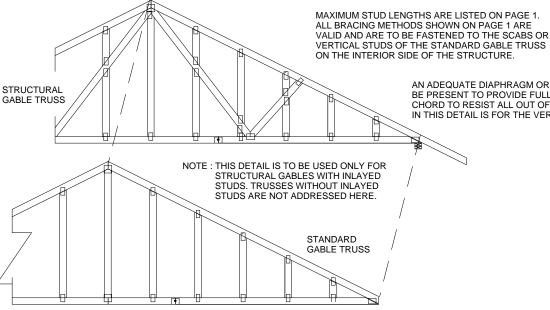
METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

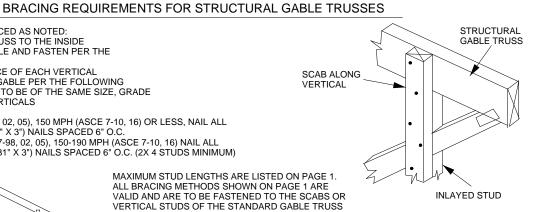
FOLLOWING NAILING SCHEDULE.

METHOD 2: ATTACH 2X_SCABS TO THE FACE OF EACH VERTICAL
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

EING SCHEDEL:
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL
- MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL
- MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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April 2,2021

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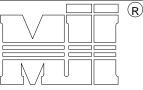


Standard Gable End Detail

MII-GE180-D-SP T23399814



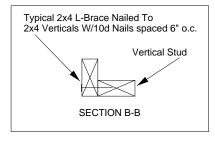
Page 1 of 2



DIAGONAL BRACE

4'-0" O.C. MAX

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TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

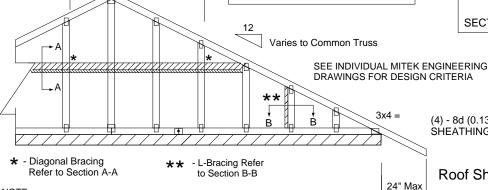
Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails **SECTION A-A** 2X4\SP OR SPF No. 2

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

SHEATHING TO 2x4 STD SPF BLOCK

End Wall

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD



NOTE

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND

NAILS DESIGNATED 16d ARE (0.131" X 3.5")									
Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	55465					
and Grade			Maximum St	ud Length					
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3				
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7				
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4				
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1				
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7				
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9				

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

Roof Sheathing 1'-0' (2) - 10d/ Max. NAILS (2) - 10d NAILS Trusses @ 24" o.c. Diag. Brace at 1/3 points 2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH if needed (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

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HORIZONTAL BRACE

(SEE SECTION A-A)

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April 2,2021

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

DURATION ARIJE OAD, INCREASE 1. 1910 READ NOTES CONNECTION OF BRACING I SEASED ON MAY FRS. 5/19/2020 BEFORE USE

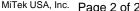
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

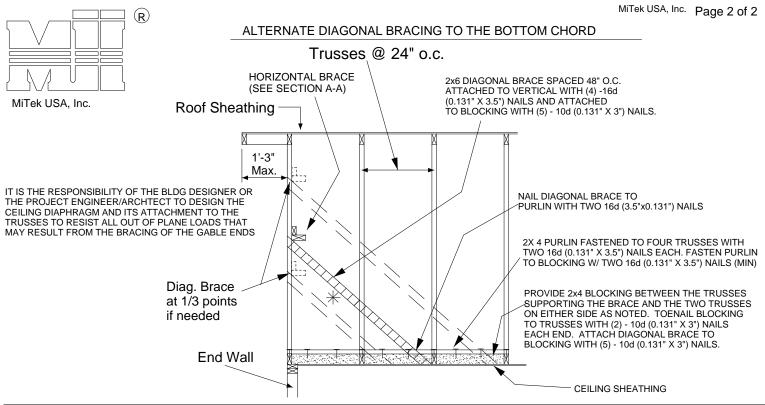
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Standard Gable End Detail

MII-SHEET 2 T23399814





BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

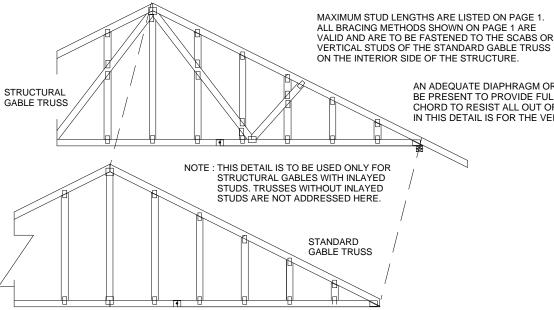
METHOD 2: ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE

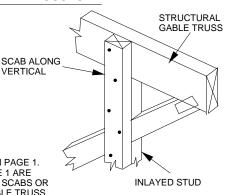
AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C. FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021

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STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MiTek USA, Inc. Page 1 of 1

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ENCLOSED BUILDING** LOADING = 5 PSF TCDL ASCE 7-10, ASCE 7-16

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES).

ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

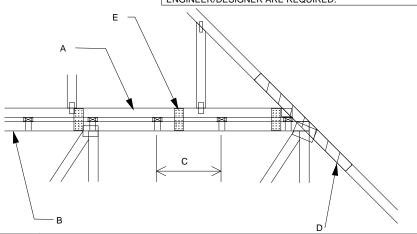
DURATION OF LOAD INCREASE: 1.60

(R)

MiTek USA, Inc.

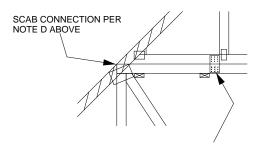
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) (0.131" X 3.5") TOE-NAILED.
 B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
- UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.

 2 X __ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
- 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM
- PIGGYBACK SPAN OF 12 ft.
 FOR WIND SPEEDS BETWEEN 116 AND 180 MPH, ATTACH
 MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" NAIL EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

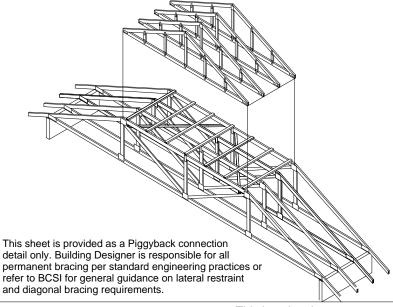


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

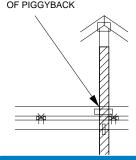
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" NAIL EDGE DISTANCE.



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
 NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH

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April 2,2021

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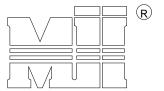


JANUARY 8, 2019

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT-7-16 T23399816

Page 1 of 1 MiTek USA, Inc.



MiTek USA, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ENCLOSED BUILDING LOADING = 5 PSF TCDL MINIMUM

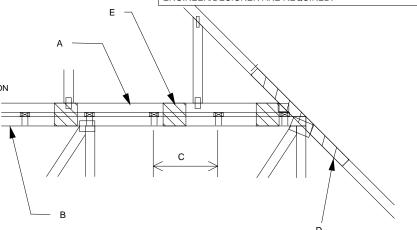
ASCE 7-10, ASCE 7-16 **DURATION OF LOAD INCREASE: 1.60**

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) 0(0.131" X 3.5") TOE-NAILED.

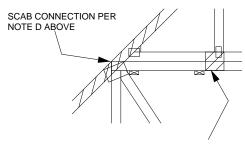
 BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.

- UNLESS SPECIFIED CLOSER OIN MITEX TRUSS DESIGN DRAWING.
 CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
 2 X _ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF
 PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
 INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
 SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
- 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM
- PIGGYBACK SPAN OF 12 ft.
 E FOR WIND SPEED IN THE RANGE 116 MPH 180 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

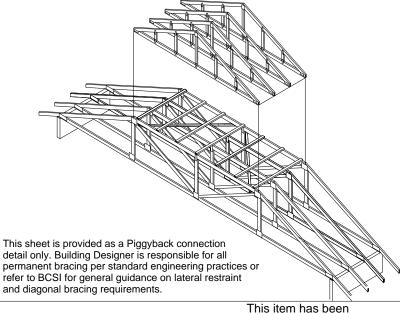


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

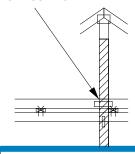
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



VERTICAL WEB TO EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- ATTACH 2 x ___ x 4-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH ATTACH 2 x VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS
- GREATER THAN 4000 LBS.
 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH IE PIGGYBACK AND THE BASE TRUSS DESIGN

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using a Digital Signature.

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Philip J. O'Regan PE No.58126

MiTek USA, Inc. FL Cert 6634

April 2,2021

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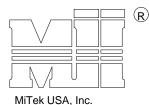


STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1 T23399817

MiTek USA, Inc.

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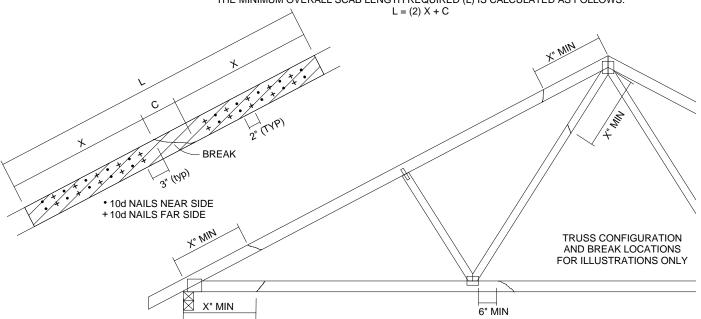


TOTAL NUMBER OF			MAXIMUM FORCE (lbs) 15% LOAD DURATI							
NAILS EACH SIDE OF BREAK *		X INCHES	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

^{*} DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES

- THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES
 NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS
 SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED
 REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID
- LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
- 6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

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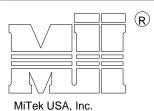


LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP T23399818

MiTek USA. Inc.

Page 1 of 1



NOTES:

- TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

> VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

> > SIDE VIEW (2x3) 2 NAILS

> > > NEAR SIDE NEAR SIDE

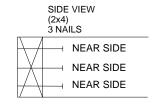
	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2018 (lb/nail)									
	DIAM. SP DF HF SPF SPF-S									
b	.131	88.0	80.6	80.6 69.9		59.7				
3.5" LONG	.135	93.5	85.6	74.2	72.6	63.4				
	.162	108.8	99.6	86.4	84.5	73.8				
Э.										
5 G	.128	74.2	67.9	58.9	57.6	50.3				
LONG	.131	75.9	69.5	60.3	59.0	51.1				
3.25"	.148	81.4	74.5 64.6		63.2	52.5				
ω̈.										

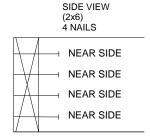
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

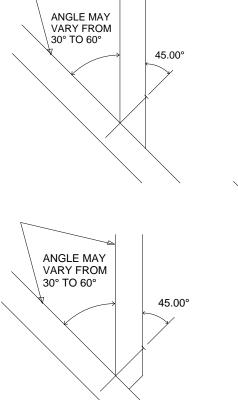
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

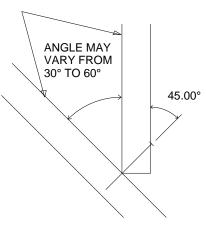
For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity









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April 2,2021

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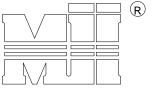


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1 T23399819

MiTek USA, Inc.

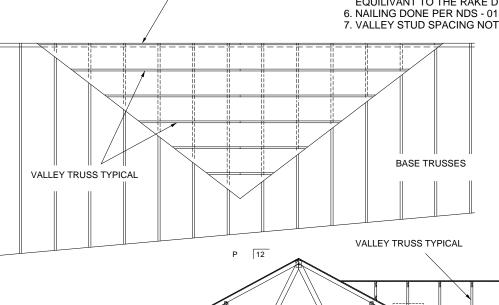
Page 1 of 1



MiTek USA, Inc.

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS

OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO USP WS3 (1/4" X 3") WOOD SCREWS INTO EACH BASE TRUSS.

DETAIL A (NO SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET

ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING

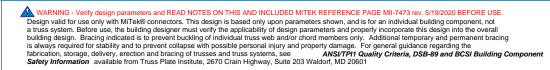
EXPOSURE C

WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF

ON THE TRUSSES

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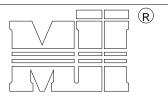
MiTek USA, Inc.

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2 T23399820

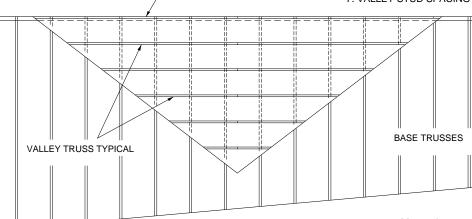
MiTek USA, Inc.

Page 1 of 1



GENERAL SPECIFICATIONS

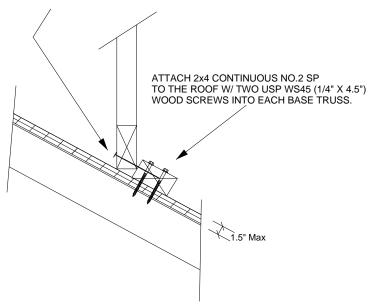
- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
- 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
- INSTALL SHEATING TO TOP CHORD OF BASE TRUS
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
 SECURE TO BASE TRUSSES AS PER DETAIL A
 BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS.
- 6. NAILING DONE PER NDS-01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS OR GIRDER TRUSS

> GABLE END, COMMON TRUSS VALLEY TRUSS TYPICAL OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

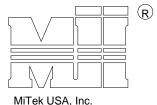


TRUSSED VALLEY SET DETAIL

MII-VALLEY SP T23399821

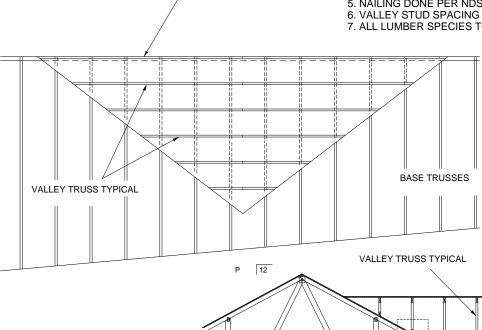
MiTek USA, Inc.

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GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLÈY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS. THE REAL PROPERTY. **DETAIL A** (MAXIMUM 1" SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES

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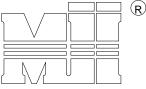


TRUSSED VALLEY SET DETAIL

MII-VALLEY SP T23399822

MiTek USA, Inc.

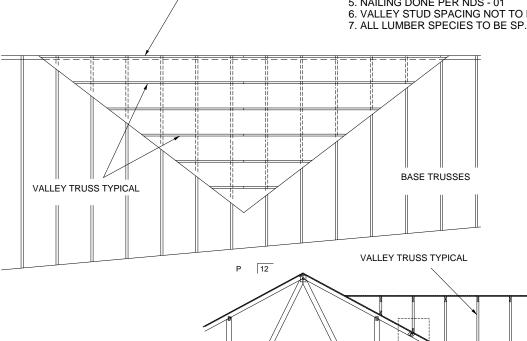
Page 1 of 1



MiTek USA, Inc.

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLÈY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS.

THE REAL PROPERTY. **DETAIL A**

(MAXIMUM 1" SHEATHING)

N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 60 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES

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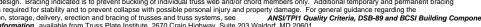
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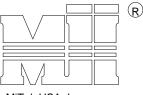


Standard Gable End Detail

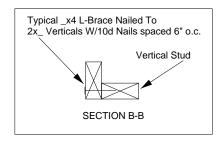
MII-GE146-001 T23399823



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MiTek USA, Inc.



DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS 4'-0" O.C. MAX SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =Ŕ Diagonal Bracing - L-Bracing Refer Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

NOTE:

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
- 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES
- 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade		Maximum Stud Length						
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10			
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11			
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7			

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum

end distance. Brace must cover 90% of diagonal length.

Roof Sheathing 24" Max 1'-3' (2) - 10d/ Max. **NÁILS** (2) - 10d NAILS Trusses @ 24" o.c. 2x6 DIAGONAL BRACE SPACED 48" O.C. Diag. Brace ATTACHED TO VERTICAL WITH (4) -16d at 1/3 points NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS. if needed HORIZONTAL BRACE **End Wall** (SEE SECTION A-A)

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April 2,2021

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING

EXPOSURE B or C

ASCE 7-98, ASCE 7-02, ASCE 7-05
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
DURANOMONONO ON COMPONENTS AND CLADDING.
DURANOMONO ON COMPONENTS AND CLADDING.
DURANOMONO ON COMPONENTS AND CLADDING.

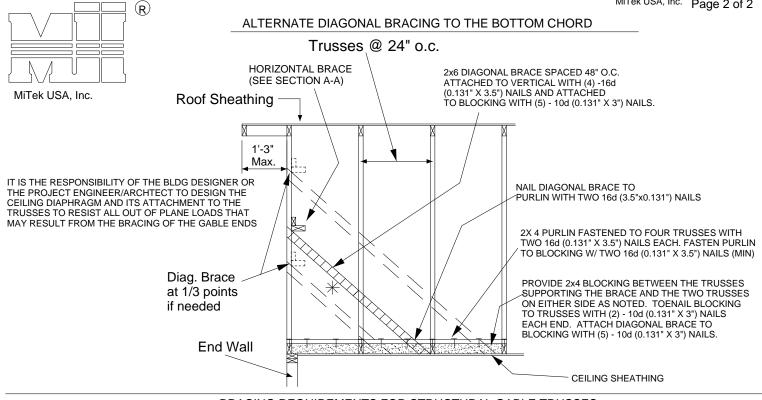
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Standard Gable End Detail

MII-SHEET 2 T23399823

MiTek USA, Inc. Page 2 of 2



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

FOLLOWING NAILING SCHEDULE.

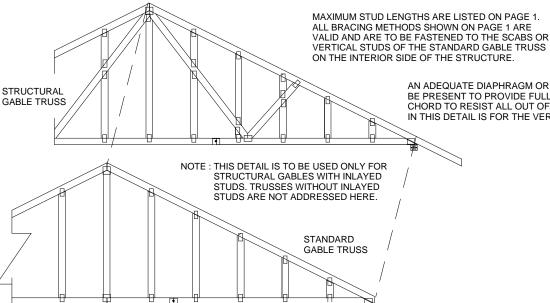
METHOD 2: ATTACH 2X SCABS TO THE FACE OF EACH VERTICAL

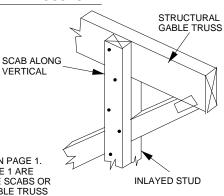
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING

NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C. - FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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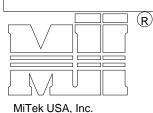
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B T23399824

MiTek USA. Inc.

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TRUSS CRITERIA:

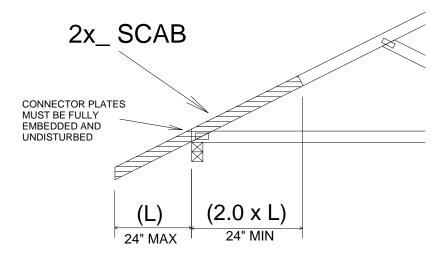
LOADING: 40-10-0-10 DURATION FACTOR: 1.15 SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

- 1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.

Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES 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.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021



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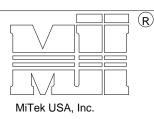
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

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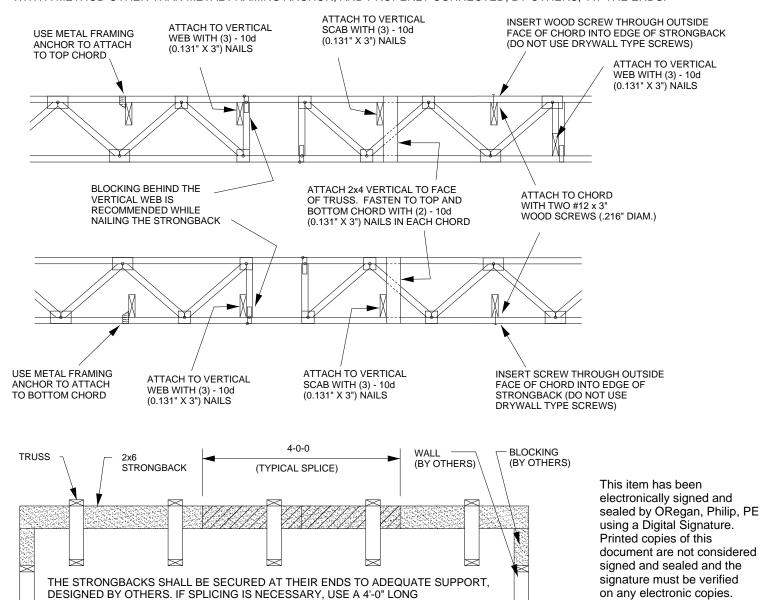
Page 1 of 1



TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



(0.131" X 3") NAILS EQUALLY SPACED.
ALTERNATE METHOD OF SPLICING:

OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.

(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d

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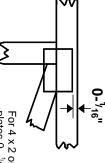


Symbols

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- $\frac{1}{16}$ " 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 × 4

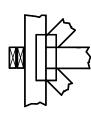
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

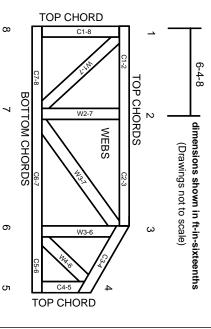
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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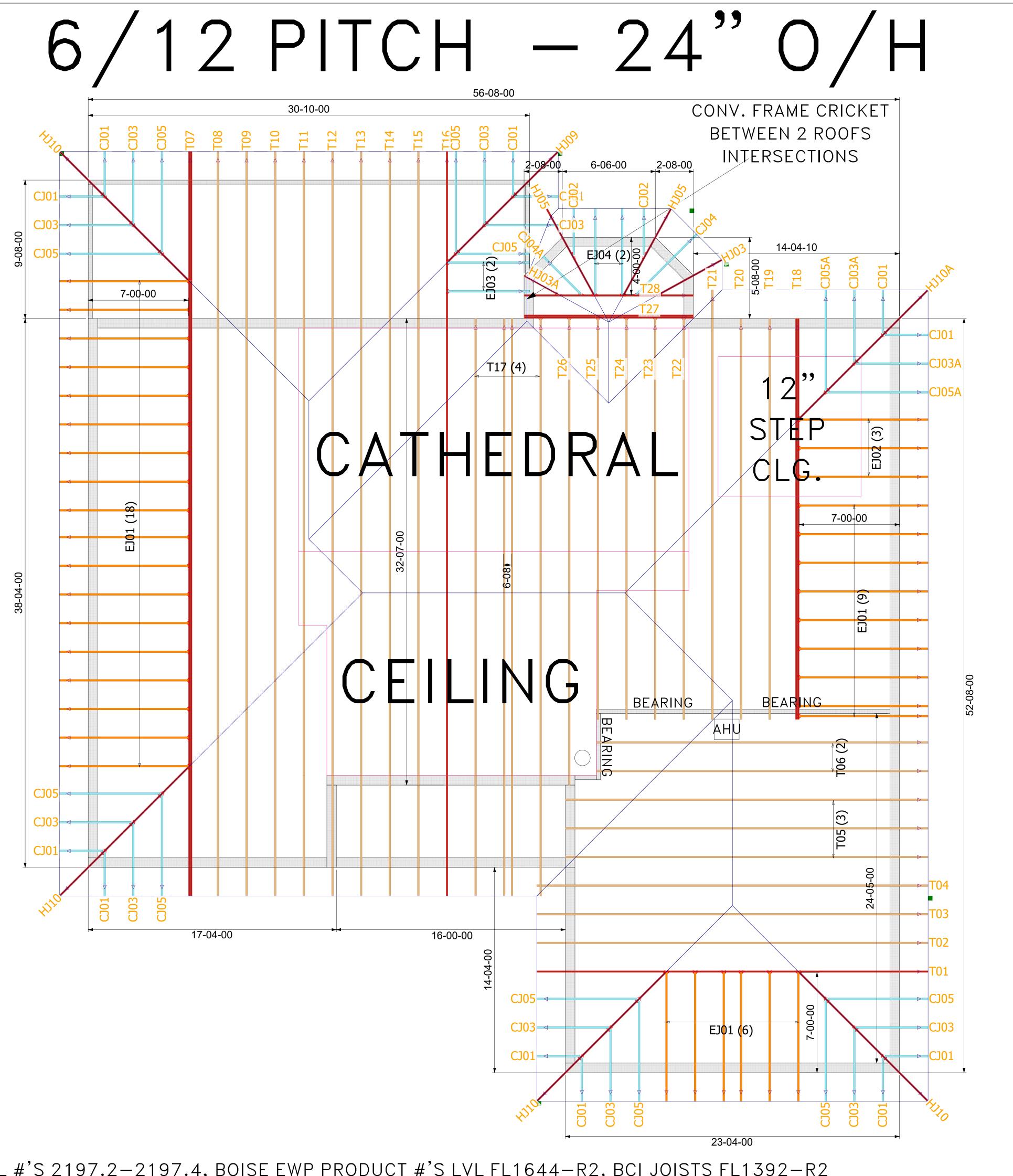
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 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.



THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.

General Notes:

Per ANSI/TPI 1-2002 all "Truss to Wall" connections re the responsibility of the Building Designer, not the Yruss Manufacturer.

- Use Manufacturer's specifications for all hanger onnections unless noted otherwise.

- Trusses are to be 24" o.c. U.N.O. - All hangers are to be Simpson or equivalent U.N.O.-Use 10d x 1 1/2" Nails in hanger connections to single ply

- Trusses are not designed to support brick U.N.O. - Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is

required, it will be supplied at no extra cost by Builders FirstSource. It is the responsibility of the Contractor to make sure the

type of items. All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry

placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these

any additional loads from above. This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis

can be found on the truss design drawings which may be sealed by the truss design engineer. Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



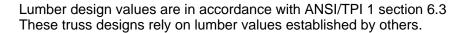
Lake City PHONE: 386-755-6894 FAX: 386-755-7973

Jacksonville PHONE: 904-772-6100 FAX: 904-772-1973

Tallahassee PHONE: 850-576-5177

HOUSECRAFT HOMES Spence Res. Custom Original Ref#: Drawn By: KLH 8-24-21 2913041 Floor 1 Job# Floor 2 Job#: Roof Job #: N/A 2913041

MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2





RE: 2830612 - HOUSECRAFT - ANDERSON RES.

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Housecraft Homes Project Name: Anderson Res. Model: Custom

Subdivision: N/A Lot/Block: N/A

Address: 250 Camphor Ct., 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 8.4

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 40 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. 1234567891011234567890	Seal# T25134925 T25134926 T25134927 T25134929 T25134930 T25134931 T25134933 T25134934 T25134936 T25134937 T25134938 T25134938 T25134939 T25134940 T25134941 T25134941 T25134942 T25134943	Truss Name CJ01 CJ03 CJ03A CJ05 CJ05A EJ01 EJ02 HJ10 HJ10A T01 T02 T03 T04 T05 T06 T07 T08 T09 T10	Date 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21	No. 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Seal# T25134947 T25134948 T25134949 T25134950 T25134952 T25134953 T25134955 T25134956 T25134958 T25134959 T25134960 T25134961 T25134961 T25134963 T25134964	Truss Name T14 T15 T16 T17 T18 T19 T20 T21 T22 T23 T24 T25 T26 T27 T27G T28 T29 T30	Date 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21 8/24/21
				40	125134964	130	8/24/21

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

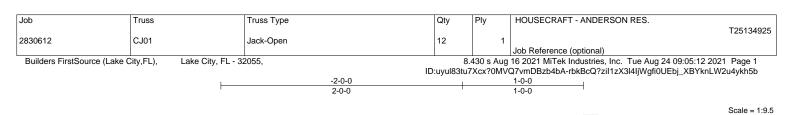
My license renewal date for the state of Florida is February 28, 2023.

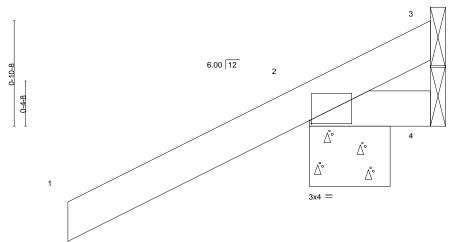
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 24,2021





1-0-0

Structural wood sheathing directly applied or 1-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Plate Offsets (X,Y) [2:0-0-3,0-0-5]								
GRIP								
244/190								
FT = 20%								

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical Max Horz 2=46(LC 12)

Max Uplift 3=-27(LC 1), 2=-102(LC 12), 4=-46(LC 1) Max Grav 3=16(LC 16), 2=254(LC 1), 4=29(LC 16)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=102.



6904 Parke East Blvd. Tampa FL 33610

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HOUSECRAFT - ANDERSON RES. Job Truss Truss Type Qty Ply T25134926 10 2830612 CJ03 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:13 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-JnIZqm0bSc9q8DKGsQ2vCvYez?20Genu0?FbQWykh5a -2-0-0 3-0-0 2-0-0 Scale = 1:14.6 3

	6.00 12	
1-10-8	2	
q	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4

							3-	-0-0				
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MP						Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

3-0-0

Structural wood sheathing directly applied or 3-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

> (size) 3=Mechanical, 2=0-8-0, 4=Mechanical Max Horz 2=80(LC 12)

Max Uplift 3=-31(LC 12), 2=-76(LC 12)

Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(LC 3)

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

NOTES-

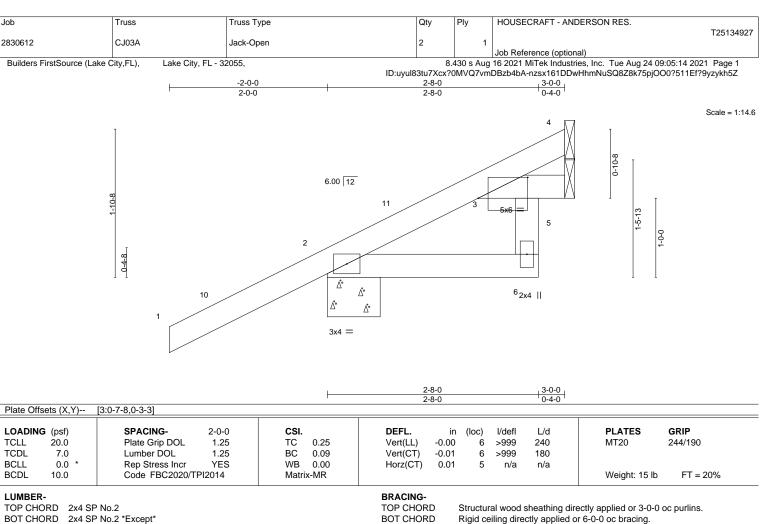
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



6904 Parke East Blvd. Tampa FL 33610

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REACTIONS.

2x4 SP No.2 *Except* BOT CHORD

3-6: 2x4 SP No.3

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical

Max Horz 2=80(LC 12)

Max Uplift 4=-17(LC 12), 2=-76(LC 12), 5=-6(LC 12) Max Grav 4=42(LC 1), 2=255(LC 1), 5=45(LC 3)

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

NOTES-

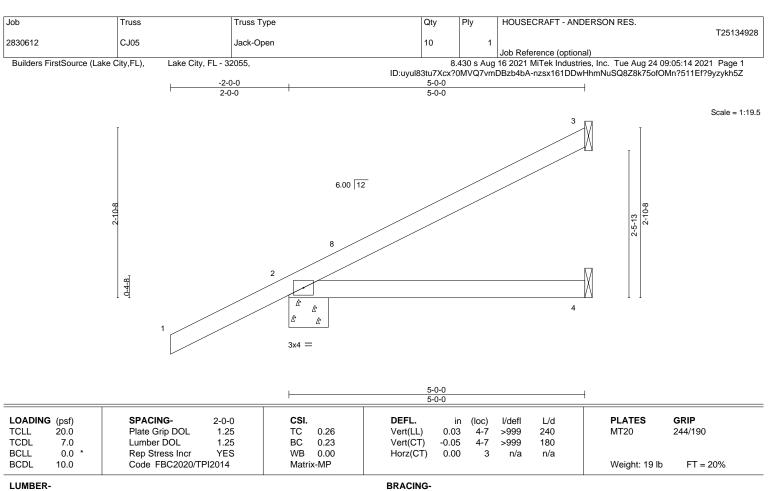
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



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TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

> 3=Mechanical, 2=0-8-0, 4=Mechanical (size) Max Horz 2=114(LC 12)

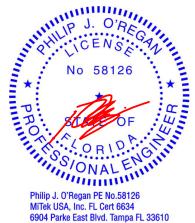
Max Uplift 3=-64(LC 12), 2=-80(LC 12)

Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

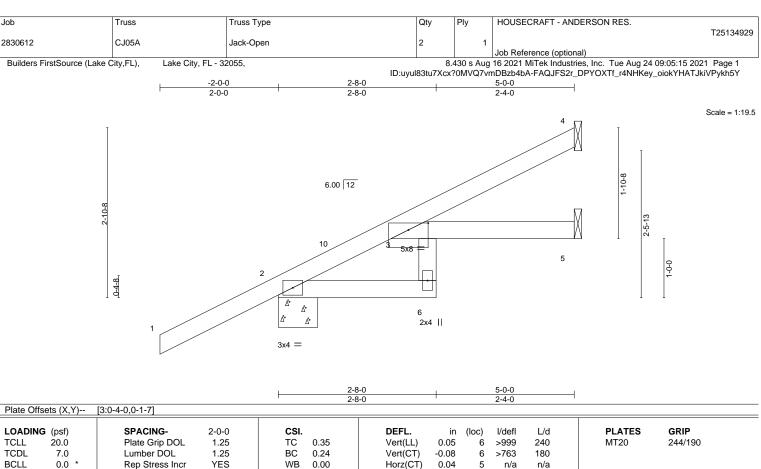


Structural wood sheathing directly applied or 5-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

August 24,2021





BCLL 0.0 Rep Stress Incr YES WB 0.00 BCDL 10.0 Code FBC2020/TPI2014 Matrix-MR

Horz(CT) **BRACING-** 5

n/a

n/a

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

Weight: 21 lb

FT = 20%

TOP CHORD BOT CHORD REACTIONS.

LUMBER-

2x4 SP No.2 *Except* 3-6: 2x4 SP No.3

2x4 SP No.2

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical

Max Horz 2=114(LC 12)

Max Uplift 4=-50(LC 12), 2=-79(LC 12), 5=-10(LC 12) Max Grav 4=97(LC 1), 2=316(LC 1), 5=82(LC 3)

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

NOTES-

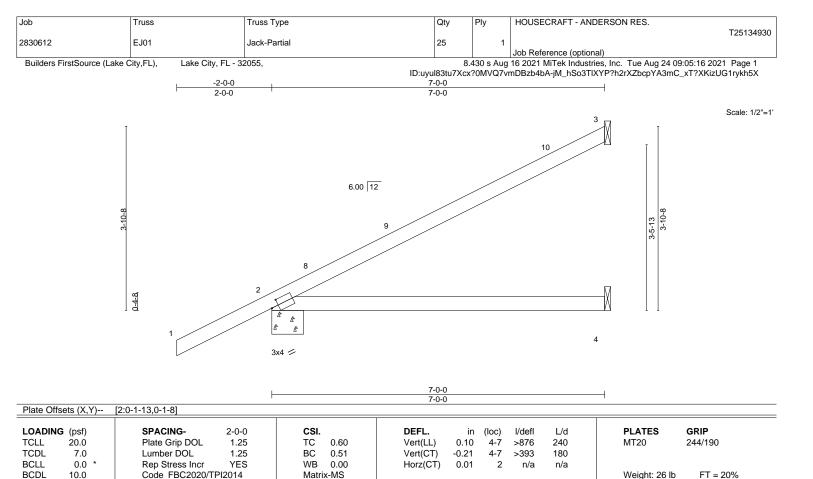
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



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LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **BRACING-**

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

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical

Max Horz 2=144(LC 12)

Max Uplift 3=-84(LC 12), 2=-90(LC 12)

Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

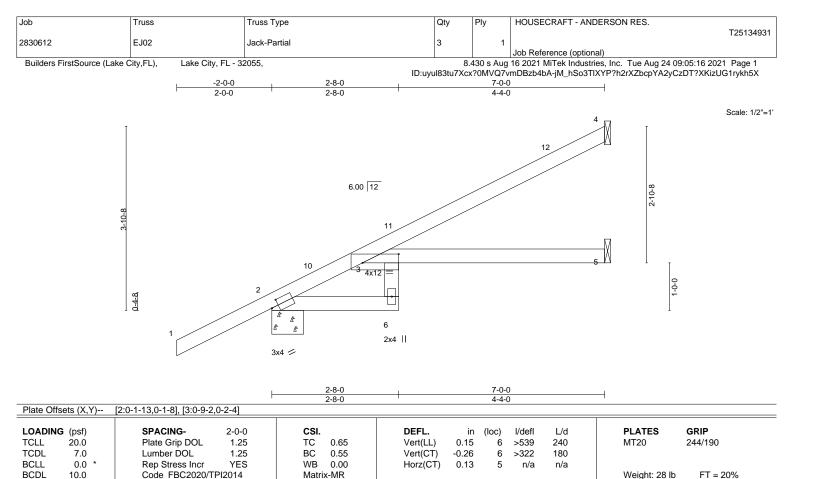
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 2x4 SP No.2 *Except* BOT CHORD

3-6: 2x4 SP No.3

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical

Max Horz 2=144(LC 12)

Max Uplift 4=-70(LC 12), 2=-89(LC 12), 5=-10(LC 12) Max Grav 4=149(LC 1), 2=384(LC 1), 5=119(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.

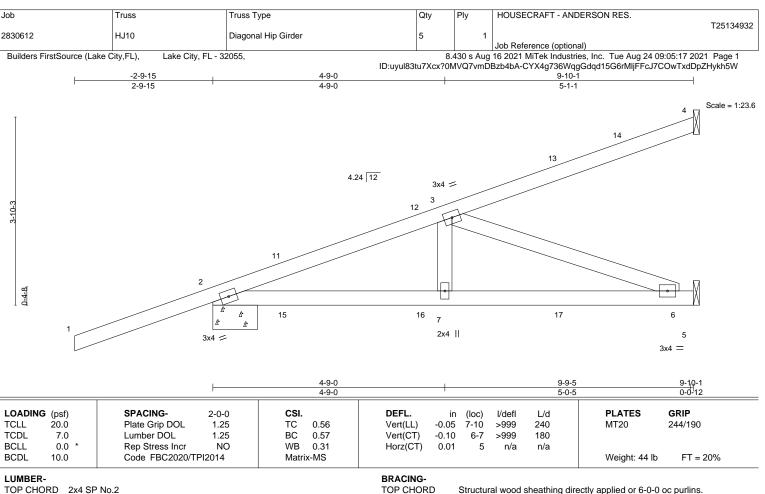


Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

August 24,2021





BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WFBS 2x4 SP No.3

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical

Max Horz 2=160(LC 4)

Max Uplift 4=-75(LC 4), 2=-168(LC 4), 5=-47(LC 8) Max Grav 4=142(LC 1), 2=463(LC 1), 5=269(LC 3)

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

TOP CHORD 2-3=-648/136

BOT CHORD 2-7=-173/556, 6-7=-173/556

WEBS 3-6=-591/185

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
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- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2 = 168
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, 56 lb down and 103 lb up at 1-6-1, 62 lb down and 33 lb up at 4-4-0, 62 lb down and 33 lb up at 4-4-0, and 41 lb down and 75 lb up at 7-1-15, and 41 lb down and 75 lb up at 7-1-15 on top chord, and 21 lb down and 74 lb up at 1-6-1, 21 lb down and 74 lb up at 1-6-1, 24 lb down and 2 lb up at 4-4-0, 24 lb down and 2 lb up at 4-4-0, and 42 lb down at 7-1-15, and 42 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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 5-8=-20

Concentrated Loads (lb)

Vert: 11=50(F=25, B=25) 13=-64(F=-32, B=-32) 15=70(F=35, B=35) 16=5(F=2, B=2) 17=-49(F=-24, B=-24)



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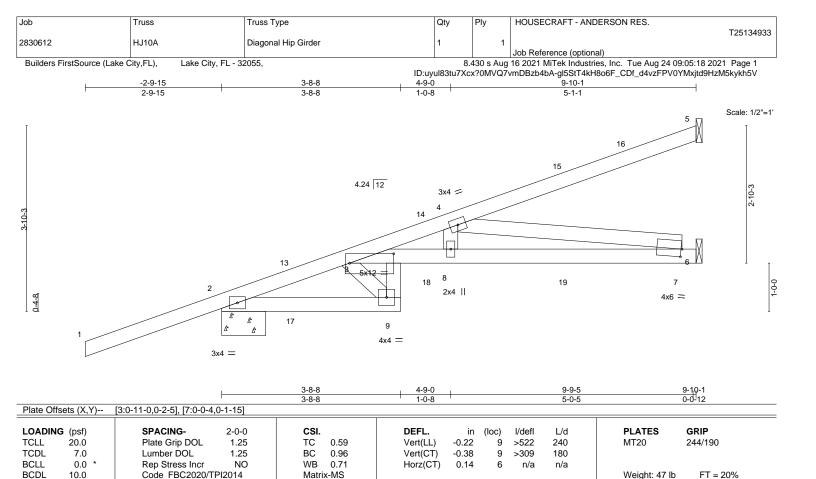
August 24,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP M 31 2x4 SP No.2 *Except* **BOT CHORD** 3-9: 2x4 SP No.3

WERS 2x4 SP No.3

REACTIONS.

(size) 5=Mechanical, 2=0-10-15, 6=Mechanical

Max Horz 2=160(LC 4)

Max Uplift 5=-62(LC 4), 2=-186(LC 4), 6=-84(LC 8) Max Grav 5=136(LC 1), 2=489(LC 1), 6=287(LC 1)

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

TOP CHORD 3-4=-1455/469

BOT CHORD 3-8=-540/1427, 7-8=-542/1435 WEBS 4-8=-38/330, 4-7=-1453/549

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb)
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, 56 lb down and 103 lb up at 1-6-1, 66 lb down and 18 lb up at 4-4-0, 66 lb down and 18 lb up at 4-4-0, and 42 lb down and 60 lb up at 7-1-15, and 42 lb down and 60 lb up at 7-1-15 on top chord, and 21 lb down and 74 lb up at 1-6-1, 21 lb down and 74 lb up at 1-6-1, 25 lb down and 15 lb up at 4-4-0, 25 lb down and 15 lb up at 4-4-0, and 42 lb down and 26 lb up at 7-1-15, and 42 lb down and 26 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 1-3=-54, 3-5=-54, 9-10=-20, 3-6=-20

Structural wood sheathing directly applied or 5-11-5 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

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Continued on page 2

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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - ANDERSON RES.
				.	T25134933
2830612	HJ10A	Diagonal Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:19 2021 Page 2 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-8xfq5p5M2Swzs8nQDh8JRAoaEPubgA6mOxiweAykh5U

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 13=50(F=25, B=25) 14=-3(F=-1, B=-1) 15=-41(F=-21, B=-21) 17=70(F=35, B=35) 18=-21(F=-11, B=-11) 19=-77(F=-39, B=-39)

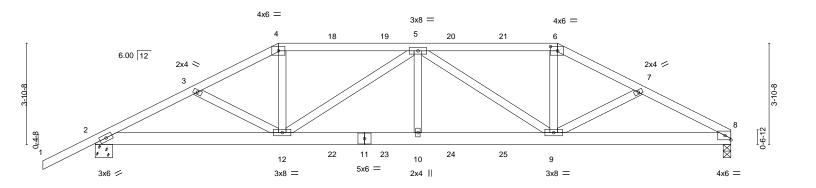
Job HOUSECRAFT - ANDERSON RES. Truss Truss Type Qty Ply T25134934 2830612 T01 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:20 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-c7DCl96_pl2qUIMcmPgY_OLifpGQPd8wdaSTAcykh5T 2-0-0 3-10-15 12-4-0 17-8-0 20-9-1 24-3-8

5-4-0

5-4-0

Scale = 1:44.0

3-6-7



<u> </u>	7-0-0 7-0-0	12-4-0 5-4-0	17-8-0 5-4-0	24-3-8 6-7-8	4
Plate Offsets (X,Y)	[6:0-3-4,0-2-0]				
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2020/TPI2014	TC 0.80 Ve BC 0.79 Ve	FL. in (loc) I/defl rt(LL) -0.15 10 >999 rt(CT) -0.28 9-10 >999 rz(CT) 0.08 8 n/a	L/d PLATES GRIP 240 MT20 244/190 180 n/a Weight: 141 lb FT = 20	1 %

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS

2-0-0

3-10-15

3-1-1

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-6-3 oc purlins.

3-1-1

Rigid ceiling directly applied or 7-9-1 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-8-0

Max Horz 2=85(LC 8)

Max Uplift 8=-448(LC 9), 2=-478(LC 8) Max Grav 8=1771(LC 1), 2=1832(LC 1)

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

2-3=-3469/882, 3-4=-3303/837, 4-5=-2976/782, 5-6=-2941/784, 6-7=-3261/841, TOP CHORD

7-8=-3376/874

BOT CHORD 2-12=-798/3066, 10-12=-908/3737, 9-10=-908/3737, 8-9=-736/2956 4-12=-174/1065, 5-12=-974/306, 5-10=0/497, 5-9=-1004/274, 6-9=-132/967 WEBS

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=448, 2=478,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 12-4-0, 106 lb down and 81 lb up at 12-4-0, 106 lb down and 88 lb up at 13-7-4, and 106 lb down and 88 lb up at 15-7-4, and 219 lb down and 169 lb up at 17-8-0 on top chord, and 297 lb down and 74 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 12-4-0, 85 lb down at 13-7-4, and 85 lb down at 15-7-4, and 297 lb down and 74 lb up at 17-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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, 4-6=-54, 6-8=-54, 2-13=-20

No 5 No 5 No 5 No 5 No 6 No 7 No 8 SIONAL

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - ANDERSON RES.
					T25134934
2830612	T01	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:20 2021 Page 2 $ID: uyul83tu7Xcx?0MVQ7vmDBzb4bA-c7DCl96_pl2qUIMcmPgY_OLifpGQPd8wdaSTAcykh5T$

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-106(B) 6=-172(B) 12=-291(B) 10=-61(B) 5=-106(B) 9=-291(B) 18=-106(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-61(B) 23=-61(B) 24=-61(B) 25=-61(B)

Job Qty HOUSECRAFT - ANDERSON RES. Truss Truss Type Ply T25134935 2830612 T02 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:21 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-4KnaVV6ca3Ah6SxoK6BnWbtwCDe38Dd3rEB1i3ykh5S

15-8-0

6-8-0

19-10-8

4-2-8

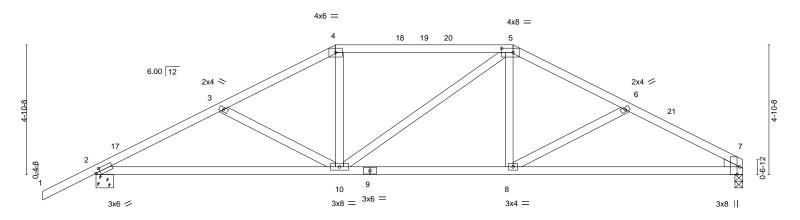
Structural wood sheathing directly applied or 4-0-8 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:43.3

24-3-8

4-5-0



H	9-0-0 9-0-0	-	15-8-0 6-8-0	24-3-8 8-7-8		
Plate Offsets (X,Y)-	[2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:0-3-8,Ed	lge]				
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.62 BC 0.70 WB 0.14 Matrix-MS	DEFL. in (loc) Vert(LL) -0.15 10-13 Vert(CT) -0.31 10-13 Horz(CT) 0.04 7	l/defl L/d >999 240 >948 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 118 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

-2-0-0

2-0-0

4-9-8

4-9-8

9-0-0

4-2-8

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 2=0-8-0, 7=0-3-8

Max Horz 2=100(LC 12)

Max Uplift 2=-237(LC 12), 7=-189(LC 13) Max Grav 2=1011(LC 1), 7=894(LC 1)

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

2-3=-1568/359, 3-4=-1321/303, 4-5=-1143/301, 5-6=-1297/302, 6-7=-1510/344 TOP CHORD

BOT CHORD 2-10=-327/1374, 8-10=-169/1124, 7-8=-261/1310 3-10=-272/155, 4-10=-22/361, 5-8=-25/328 WFBS

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 15-8-0, Exterior(2R) 15-8-0 to 20-0-7, Interior(1) 20-0-7 to 24-3-8 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.
- * 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) except (jt=lb) 2=237, 7=189.



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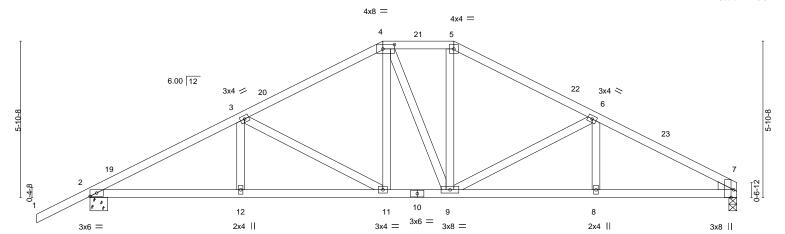
Job Qty Ply HOUSECRAFT - ANDERSON RES. Truss Truss Type T25134936 2830612 T03 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

11-0-0

5-4-1

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:22 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-YWLyjr7ELNIYjcW?upi03pQ9Xd2ftdcC4uxaFVykh5R 13-8-0 19-0-1 24-3-8 2-8-0

Scale = 1:43.3



5-7-15 5-7-15		11-0-0 5-4-1	13-8-0 2-8-0	19-0-1 5-4-1	24-3-8 5-3-7
Plate Offsets (X,Y)	[4:0-5-4,0-2-0], [7:0-3-8,Edge]	T			
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.33 BC 0.42 WB 0.35 Matrix-MS	Vert(LL) -0.0	in (loc) I/defl L/d 06 11-12 >999 240 03 11-12 >999 180 05 7 n/a n/a	PLATES GRIP MT20 244/190 Weight: 130 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

-2-0-0

2-0-0

5-7-15

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 2=0-8-0, 7=0-3-8

Max Horz 2=115(LC 12)

Max Uplift 2=-234(LC 12), 7=-186(LC 13) Max Grav 2=1011(LC 1), 7=894(LC 1)

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

2-3=-1601/327, 3-4=-1154/282, 4-5=-974/278, 5-6=-1151/282, 6-7=-1529/321 TOP CHORD **BOT CHORD** 2-12=-311/1381, 11-12=-311/1381, 9-11=-147/974, 8-9=-235/1318, 7-8=-235/1318

3-11=-473/187, 4-11=-64/308, 5-9=-61/299, 6-9=-413/182

WFBS 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2E) 11-0-0 to 13-8-0, Exterior(2R) 13-8-0 to 17-10-15, Interior(1) 17-10-15 to 24-3-8 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.
- * 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) except (jt=lb) 2=234, 7=186.



Structural wood sheathing directly applied or 4-5-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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HOUSECRAFT - ANDERSON RES. Job Qty Truss Truss Type Ply T25134937 2830612 T04 Common 5 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:22 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-YWLyjr7ELNIYjcW?upi03pQ4dd_btdbC4uxaFVykh5R -2-0-0 6-1-15 12-4-0 18-6-0 24-3-8 2-0-0 6-1-15 6-2-0 Scale = 1:42.7 4x6 = 6.00 12 5x6 / 2x4 // 3 17 9 8 18 19 7 3x4 =4x6 =3x4 =3x6 = 3x6 =8-1-7 Plate Offsets (X,Y)--[3:0-3-0,0-3-0] PLATES LOADING (psf) SPACING-CSL GRIP 2-0-0 DEFL. in (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.64 Vert(LL) -0.147-9 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 вс 0.68 Vert(CT) -0.25 7-9 >999 180

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS

0.0

10.0

BRACING-

Horz(CT)

TOP CHORD **BOT CHORD**

0.04

6

n/a

Structural wood sheathing directly applied or 3-5-8 oc purlins.

Weight: 132 lb

FT = 20%

Rigid ceiling directly applied or 10-0-0 oc bracing.

n/a

REACTIONS. (size) 6=0-3-8, 2=0-8-0

Max Horz 2=125(LC 12)

Max Uplift 6=-247(LC 13), 2=-294(LC 12) Max Grav 6=1178(LC 2), 2=1267(LC 2)

Rep Stress Incr

Code FBC2020/TPI2014

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

2-3=-2170/556, 3-4=-2015/546, 4-5=-1959/542, 5-6=-2113/553 TOP CHORD

BOT CHORD 2-9=-454/1915, 7-9=-239/1266, 6-7=-438/1846

4-7=-208/829, 5-7=-307/200, 4-9=-220/925, 3-9=-321/201 WEBS

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-9-14, Interior(1) 0-9-14 to 12-4-0, Exterior(2R) 12-4-0 to 15-4-0, Interior(1) 15-4-0 to 24-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber 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.

NO

WB

Matrix-MS

0.35

- 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) 6=247, 2=294
- 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, 4-6=-54, 2-9=-20, 7-9=-80(F=-60), 7-10=-20



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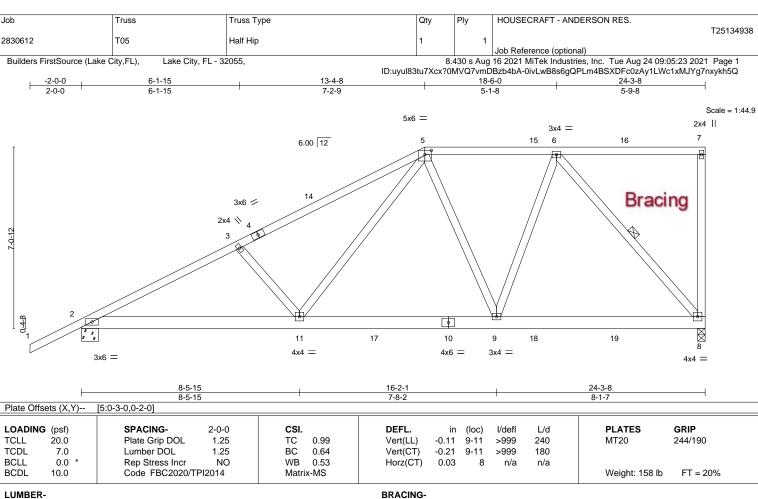
August 24,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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TOP CHORD

BOT CHORD

WEBS

REACTIONS.

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 WEBS

2x4 SP No.3

Max Horz 2=260(LC 12) Max Uplift 8=-274(LC 9), 2=-305(LC 12) Max Grav 8=1214(LC 2), 2=1270(LC 2)

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

2-3=-2175/510, 3-5=-2017/489, 5-6=-1108/278 TOP CHORD **BOT CHORD** 2-11=-627/1924, 9-11=-338/1171, 8-9=-221/851

(size) 8=0-3-8, 2=0-8-0

3-11=-364/229, 5-11=-247/970, 6-9=-171/801, 6-8=-1305/343 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-9-14, Interior(1) 0-9-14 to 13-4-8, Exterior(2R) 13-4-8 to 17-7-7, Interior(1) 17-7-7 to 24-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 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) 8=274, 2=305
- 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: 1-5=-54, 5-7=-54, 2-11=-20, 9-11=-80(F=-60), 8-9=-20



Structural wood sheathing directly applied, except end verticals.

6-8

Rigid ceiling directly applied or 9-4-3 oc bracing.

1 Row at midpt

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Job Qty Ply HOUSECRAFT - ANDERSON RES. Truss Truss Type T25134939 2830612 T06 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:24 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-UuSj8X9Vt_YGzvfN?EkU8EVUhQfeLS6VYCQhJNykh5P -2-0-0 6-1-15 12-4-0 15-4-8 19-8-4 24-3-8 4-7-4 3-0-8 2-0-0 6-1-15 6-2-1 4-3-12 Scale = 1:49.2 4x4 = 2x4 || 3x4 =8 7 16 6.00 12 6 4x4 / Bracing 3x6 / 2x4 \\ Ø \aleph 12 17 1811 10 19 20 3x4 = 4x6 = 3x8 = 4x4 =3x6 =24-3-8 8-1-7 16-2-1 7-8-2 LOADING (psf) SPACING-GRIP CSI. DEFL. **PLATES** 2-0-0 in (loc) I/defl I/d -0.11 10-12 MT20 244/190 **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.41 Vert(LL) >999 240 **TCDL** 7.0 Lumber DOL 1.25 BC 0.64 Vert(CT) -0.20 10-12 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.67 Horz(CT) 0.03 n/a n/a **BCDL** Code FBC2020/TPI2014 Matrix-MS Weight: 171 lb FT = 20% 10.0 **BRACING-**LUMBER-2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins, **BOT CHORD** 2x6 SP No.2 except end verticals.

BOT CHORD

WEBS

Rigid ceiling directly applied or 9-3-4 oc bracing.

8-9, 7-9

1 Row at midpt

TOP CHORD

WFBS 2x4 SP No.3

REACTIONS.

(size) 9=0-3-8, 2=0-8-0 Max Horz 2=295(LC 12)

Max Uplift 9=-285(LC 12), 2=-299(LC 12) Max Grav 9=1220(LC 2), 2=1269(LC 2)

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

TOP CHORD 2-3=-2159/484, 3-5=-2011/466, 5-6=-1078/273, 6-7=-960/261

2-12=-633/1903, 10-12=-402/1278, 9-10=-170/598 **BOT CHORD**

WEBS 3-12=-307/193, 5-12=-208/889, 5-10=-677/276, 6-10=-51/364, 7-10=-218/885,

7-9=-1181/340

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-9-14, Interior(1) 0-9-14 to 15-4-8, Exterior(2R) 15-4-8 to 19-8-4, Interior(1) 19-8-4 to 24-1-12 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) 9=285, 2=299.
- 8) 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: 1-6=-54, 6-8=-54, 2-12=-20, 10-12=-80(F=-60), 9-10=-20



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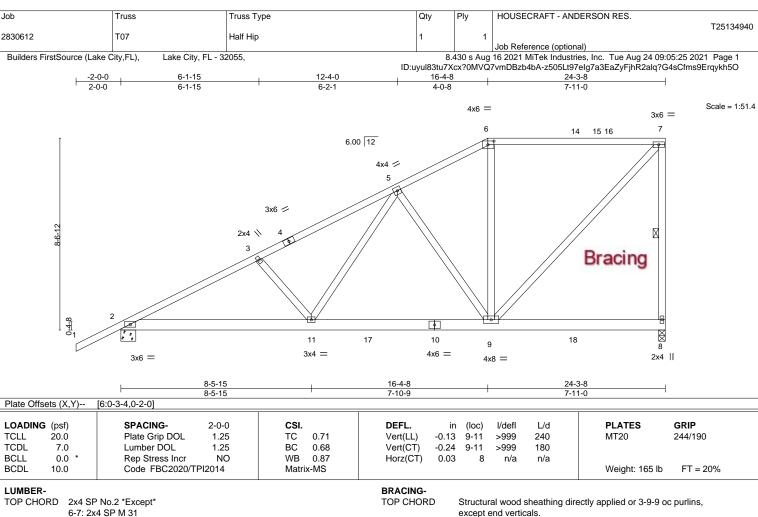
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BOT CHORD

WERS

Rigid ceiling directly applied or 9-2-3 oc bracing.

7-8

1 Row at midpt

6-7: 2x4 SP M 31

BOT CHORD 2x6 SP No.2

2x4 SP No 3 WEBS

REACTIONS. (size) 8=0-3-8, 2=0-8-0

Max Horz 2=312(LC 12)

Max Uplift 8=-302(LC 12), 2=-296(LC 12) Max Grav 8=1244(LC 2), 2=1273(LC 2)

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

TOP CHORD 2-3=-2176/479, 3-5=-2028/461, 5-6=-1040/259, 6-7=-897/256, 7-8=-1116/326

BOT CHORD 2-11=-646/1918, 9-11=-414/1276

WEBS 3-11=-308/193, 5-11=-211/920, 5-9=-697/280, 6-9=0/252, 7-9=-370/1297

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-9-14, Interior(1) 0-9-14 to 16-4-8, Exterior(2R) 16-4-8 to 20-7-7, Interior(1) 20-7-7 to 24-1-12 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) 8=302, 2=296
- 8) 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: 1-6=-54, 6-7=-54, 2-11=-20, 9-11=-80(F=-60), 8-9=-20



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Job HOUSECRAFT - ANDERSON RES. Truss Type Plv Truss Qty T25134941 2830612 T08 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:27 2021 Page 1

12-9-0

2-10-8

9-10-8

2-10-8

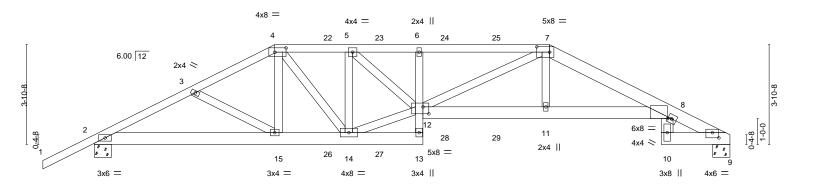
3-1-1

17-8-0 22-0-0 24-8-0 4-11-0 4-4-0 2-8-0

Structural wood sheathing directly applied or 5-3-6 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:44.7



<u> </u>	3-10-15 3-10-15	7-0-0 3-1-1	9-10-8 2-10-8	12-9-0 2-10-8	17-8-0 4-11-0	-	22-0-0 4-4-0	24-8-0
Plate Offsets (X,Y)	[4:0-5-4,0-2-0], [7:0-6	6-0,0-2-8], [8:0-1-12	2,0-0-0], [9:0-3-0,0-	2-7], [12:0-2-12,0-3-4]				
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 *	SPACING- Plate Grip DO Lumber DOL Rep Stress In Code FBC202	1.25 cr NO	CSI. TC 0.56 BC 0.72 WB 0.59 Matrix-MS	Vert(CT)	in (loc) 1/de -0.15 12 >99 -0.29 6 >99 0.16 9 n	9 240	PLATES MT20 Weight: 306 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

-2-0-0

2-0-0

3-10-15

3-10-15

TOP CHORD 2x4 SP No.2 *Except*

7-9: 2x6 SP M 26

BOT CHORD 2x6 SP No.2 *Except*

6-13: 2x4 SP No.3, 8-12: 2x6 SP M 26 WEBS 2x4 SP No.3

REACTIONS. (size) 9=0-8-0, 2=0-8-0

Max Horz 2=83(LC 27)

Max Uplift 9=-477(LC 9), 2=-493(LC 8)

Max Grav 9=1756(LC 1), 2=1826(LC 1)

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

2-3=-3456/921, 3-4=-3274/869, 4-5=-3443/951, 5-6=-4937/1343, 6-7=-4999/1361, TOP CHORD

7-8=-4700/1275, 8-18=-1247/360 BOT CHORD

2-15=-831/3058. 14-15=-735/2920. 13-14=-140/513. 6-12=-483/251. 11-12=-1097/4313. 8-11=-1082/4249. 8-10=-239/912

WEBS 4-15=-56/604, 4-14=-290/866, 5-14=-1653/518, 12-14=-792/3121, 5-12=-560/2025,

7-12=-249/874, 7-11=-254/1112

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 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) except (jt=lb) 9=477, 2=493.



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August 24,2021

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - ANDERSON RES.
2020642	TOO	Hip Cirdor			T25134941
2830612	T08	Hip Girder	'	2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:27 2021 Page 2 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-vT8rmYBN9vwrqNOyhNIBms7zjeg8YqzxEAeLwiykh5M

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 81 lb up at 12-4-0, 95 lb down and 74 lb up at 13-7-4, and 95 lb down and 74 lb up at 15-7-4, and 113 lb down and 74 lb up at 17-8-0 on top chord, and 297 lb down and 74 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 12-7-4, 79 lb down and 30 lb up at 13-7-4, and 79 lb down and 30 lb up at 15-7-4, and 334 lb down and 142 lb up at 17-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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, 7-8=-54, 8-18=-54, 2-13=-20, 8-12=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 7=-95(F) 13=-61(F) 6=-106(F) 15=-291(F) 11=-334(F) 22=-106(F) 23=-106(F) 24=-95(F) 25=-95(F) 26=-61(F) 27=-61(F) 28=-75(F) 29=-75(F)



Job Qty HOUSECRAFT - ANDERSON RES. Truss Truss Type Ply T25134942 2830612 T09 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:28 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-NgiEzuC?wD2iRXz8E4pQJ4gAH20dHK45TqOuS9ykh5L

15-8-0

2-11-0

15-8-0

22-0-0

22-0-0

Structural wood sheathing directly applied or 4-5-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 8-9.

12-9-0

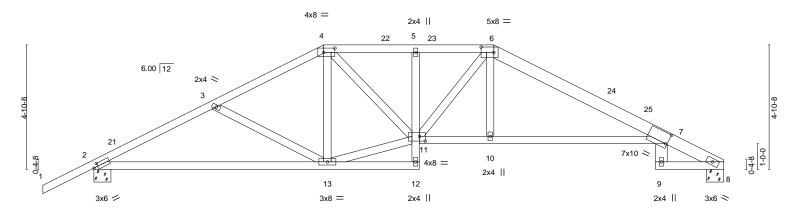
3-9-0

Scale = 1:45.1

24-8-0

2-8-0

24-8-0



	000			12 0	, 0	10 0 0		22 0 0			2700		
	9-0-0			3-9-	-0	2-11-0	1		6-4-0		2-8-0		
Plate Offsets (2	Plate Offsets (X,Y) [2:0-1-15,0-1-8], [4:0-5-4,0-2-0], [6:0-6-0,0-2-8], [7:0-0-12,0-4-15], [11:0-2-12,0-2-4]												
LOADING (ps	f)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL 20.	Ó	Plate Grip DOL	1.25	TC	0.44	Vert(LL	-0.26	7-10	>999	240	MT20	244/190	
TCDL 7.	0	Lumber DOL	1.25	BC	0.71	Vert(CT	-0.50	7-10	>591	180			
BCLL 0.	0 *	Rep Stress Incr	YES	WB	0.41	Horz(C	0.24	8	n/a	n/a			
BCDL 10.	0	Code FBC2020/TF	PI2014	Matri	x-MS						Weight: 13	4 lb FT = 209	%

BRACING-

TOP CHORD

BOT CHORD

12-9-0

LUMBER-

-2-0-0

2-0-0

4-9-8

4-9-8

9-0-0

4-2-8

TOP CHORD 2x4 SP No.2 *Except*

6-8: 2x6 SP M 26

BOT CHORD 2x4 SP No.2 *Except*

5-12: 2x4 SP No.3, 7-11: 2x4 SP M 31, 7-9: 2x6 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (size) 8=0-8-0, 2=0-8-0

Max Horz 2=98(LC 12)

Max Uplift 8=-184(LC 13), 2=-239(LC 12) Max Grav 8=910(LC 1), 2=1013(LC 1)

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

9-0-0

2-3=-1578/359, 3-4=-1318/298, 4-5=-1498/364, 5-6=-1497/364, 6-7=-1682/343, TOP CHORD

7-16=-444/108

BOT CHORD 2-13=-330/1384. 10-11=-225/1506. 7-10=-225/1495

 $3\text{-}13\text{=-}296/162,\ 11\text{-}13\text{=-}175/1081,\ 4\text{-}11\text{=-}115/543,\ 6\text{-}10\text{=-}1/348}$ **WEBS**

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 15-8-0, Exterior(2R) 15-8-0 to 19-10-15, Interior(1) 19-10-15 to 24-4-0 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) 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.
- * 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) except (jt=lb) 8=184, 2=239.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 24,2021

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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Qty HOUSECRAFT - ANDERSON RES. Truss Truss Type Ρlν T25134943 2830612 T10 Hip Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:29 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-rsGcBEDdhWAZ3hYLooKfrHDKnRQZ0n8EhU7S_bykh5K

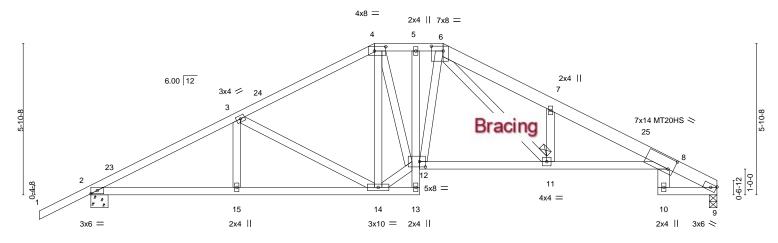
22-0-0

Structural wood sheathing directly applied or 4-6-3 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

-2-0-0 11-0-0 12-9-0 13-8-0 17-10-0 22-0-0 24-3-8 2-0-0 5-7-15 5-4-1 1-9-0 4-2-0 4-2-0 2-3-8

Scale = 1:44.7



		5-7-15	5-4-1	1-9-0	5-1-0	4-2-0	2-3-8
Plate Offse	ts (X,Y)						
LOADING	(psf)	SPACING- 2-0-	0 CSI .	DEFL.	in (loc) I/defl	L/d PLATES	GRIP
	20.0	Plate Grip DOL 1.2	5 TC 0.39	Vert(LL)) -0.15 8-11 >999 2	40 MT20	244/190
TCDL	7.0	Lumber DOL 1.2	5 BC 0.47	Vert(CT) -0.28 8-11 >999 1	80 MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr YE	-	Horz(C	Γ) 0.18 9 n/a i	n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 14	l8 lb FT = 20%

BRACING-

JOINTS

TOP CHORD

BOT CHORD

12-9-0

17-10-0

1 Brace at Jt(s): 11

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

6-9: 2x6 SP M 26

BOT CHORD 2x4 SP No.2 *Except* 5-13: 2x4 SP No.3, 8-12: 2x4 SP M 31, 8-10: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (size) 9=0-3-8, 2=0-8-0 Max Horz 2=115(LC 12)

Max Uplift 9=-179(LC 13), 2=-235(LC 12)

5-7-15

Max Grav 9=899(LC 1), 2=1006(LC 1)

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

2-3=-1589/324, 3-4=-1148/279, 4-5=-1151/300, 5-6=-1159/300, 6-7=-2208/510, TOP CHORD

7-8=-2045/404, 8-18=-430/102 BOT CHORD 2-15=-312/1369. 14-15=-312/1369. 11-12=-150/1146. 8-11=-314/1884

 $3-14=-466/186,\ 4-14=-312/41,\ 12-14=-159/1111,\ 4-12=-73/596,\ 7-11=-614/243,$ **WEBS**

6-11=-307/1096

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2E) 11-0-0 to 13-8-0, Exterior(2R) 13-8-0 to 17-10-0, Interior(1) 17-10-0 to 24-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

11-0-0

- 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) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=179, 2=235.



24-3-8

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Qty HOUSECRAFT - ANDERSON RES. Truss Truss Type Ply T25134944 2830612 T11 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:30 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-J2q_OaDFSqlQhq7XMVruOVIVWrmrlB_Ow8t?X1ykh5J -2-0-0 12-4-0 12-9₇0 0-5-0 17-6-0 22-0-0 24-3-8 2-0-0 6-3-0 6-1-0 4-9-0 4-6-0 2-3-8 Scale = 1:46.1 5x6 = 6.00 12 23 22 3x4 > 5x6 🖊 3 7x14 MT20HS ≥ Bracing 13 12 11 4x4 = 2x4 || 2x4 || 3x6 ≥ 3x6 2x4 || 12-9-0 17-6-0 6-3-0 6-6-0 4-9-0 4-6-0 Plate Offsets (X,Y)--[3:0-2-4,0-3-4], [6:0-2-12,0-4-15], [10:0-5-0,0-4-8] LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSL DEFL. in (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.39 Vert(LL) -0.15 6-9 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 вс 0.47 Vert(CT) -0.29 6-9 >999 180 MT20HS 187/143

0.18

n/a

6-0-0 oc bracing: 7-8.

1 Brace at Jt(s): 9

n/a

Structural wood sheathing directly applied or 4-5-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

Weight: 138 lb

FT = 20%

Horz(CT)

BRACING-

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2 *Except*

4-7: 2x6 SP M 26

BOT CHORD 2x4 SP No.2 *Except* 4-12: 2x4 SP No.3, 6-10: 2x4 SP M 31, 6-8: 2x6 SP No.2

WEBS 2x4 SP No.3

0.0

10.0

REACTIONS. (size) 7=0-3-8, 2=0-8-0 Max Horz 2=124(LC 12)

Max Uplift 7=-179(LC 13), 2=-231(LC 12)

Max Grav 7=901(LC 1), 2=1008(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD 2-3=-1575/361, 3-4=-1239/319, 4-5=-1265/340, 5-6=-2006/457, 6-16=-431/113

YES

BOT CHORD 2-13=-306/1355, 10-12=0/352, 4-10=-159/799, 9-10=-359/1843, 6-9=-359/1843 WFBS

3-10=-384/174, 5-10=-882/270, 5-9=0/288, 10-13=-302/1222

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 12-4-0, Exterior(2R) 12-4-0 to 15-4-0, Interior(1) 15-4-0 to 24-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.58

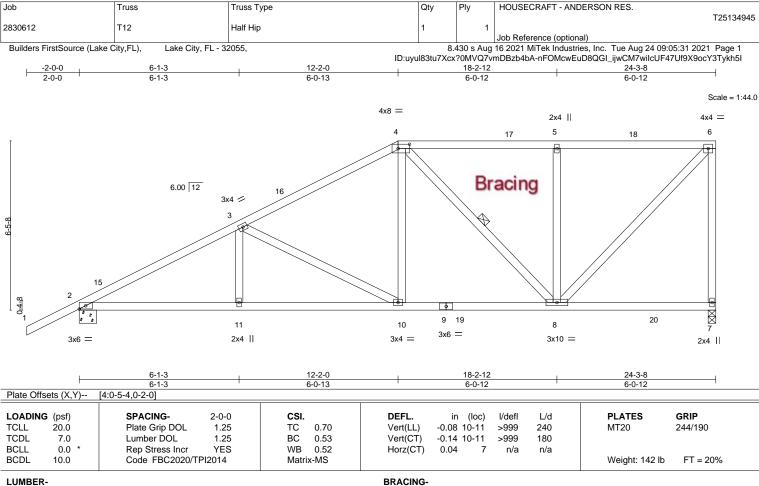
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) except (jt=lb) 7=179, 2=231.



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August 24,2021





TOP CHORD

BOT CHORD

WERS

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

REACTIONS. (size) 7=0-3-8, 2=0-8-0

Max Horz 2=239(LC 12)

Max Uplift 7=-216(LC 9), 2=-248(LC 12) Max Grav 7=1000(LC 2), 2=1062(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1708/345, 3-4=-1162/257, 4-5=-757/175, 5-6=-757/175, 6-7=-884/230 TOP CHORD

BOT CHORD 2-11=-456/1485, 10-11=-456/1485, 8-10=-269/992

3-11=0/252, 3-10=-571/211, 4-10=-59/494, 4-8=-346/135, 5-8=-379/184, 6-8=-252/1075 WEBS

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 12-2-0, Exterior(2R) 12-2-0 to 16-4-15, Interior(1) 16-4-15 to 24-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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.
- * 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) 7=216, 2=248.



Structural wood sheathing directly applied or 4-3-11 oc purlins,

4-8

Rigid ceiling directly applied or 8-8-14 oc bracing.

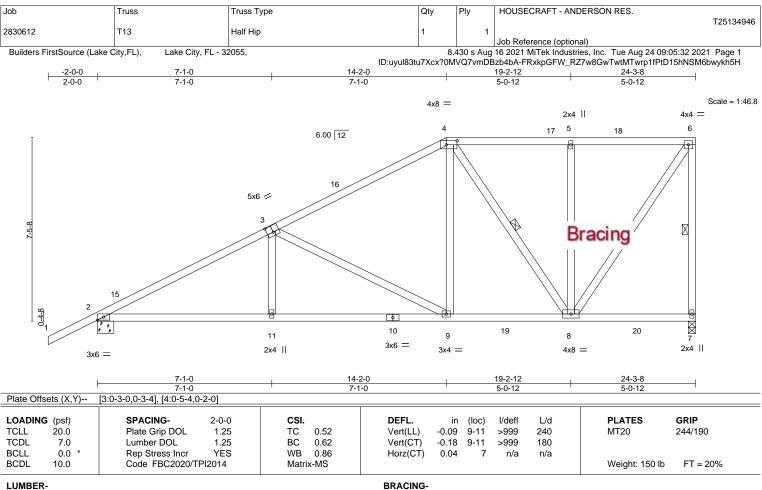
except end verticals.

1 Row at midpt

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August 24,2021





TOP CHORD

BOT CHORD

WERS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

REACTIONS. (size) 7=0-3-8, 2=0-8-0

Max Horz 2=274(LC 12)

Max Uplift 7=-210(LC 12), 2=-242(LC 12) Max Grav 7=1004(LC 2), 2=1059(LC 2)

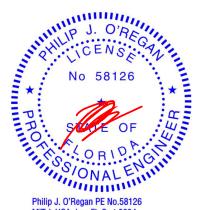
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1661/323, 3-4=-997/213, 4-5=-564/139, 5-6=-564/139, 6-7=-902/223 TOP CHORD

BOT CHORD 2-11=-463/1438, 9-11=-463/1438, 8-9=-236/831

3-11=0/306, 3-9=-694/255, 4-9=-76/549, 4-8=-464/167, 5-8=-315/153, 6-8=-246/983 WEBS

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 14-2-0, Exterior(2R) 14-2-0 to 18-4-15, Interior(1) 18-4-15 to 24-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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.
- * 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) 7=210, 2=242.



Structural wood sheathing directly applied or 4-2-7 oc purlins,

6-7.4-8

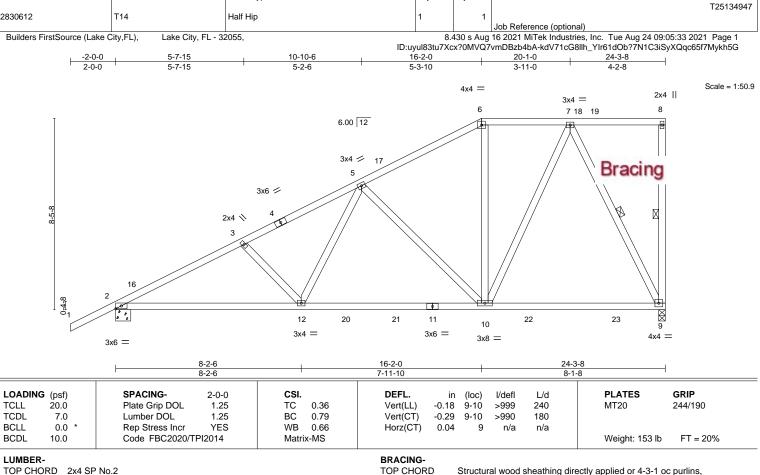
Rigid ceiling directly applied or 8-7-3 oc bracing.

except end verticals.

1 Row at midpt

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BOT CHORD

WEBS

Qty

Ply

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 8-3-12 oc bracing.

8-9, 7-9

HOUSECRAFT - ANDERSON RES.

LUMBER-

Job

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS.

(size) 9=0-3-8, 2=0-8-0 Max Horz 2=308(LC 12)

Truss

Truss Type

Max Uplift 9=-232(LC 12), 2=-233(LC 12) Max Grav 9=1014(LC 2), 2=1073(LC 2)

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

TOP CHORD 2-3=-1681/321, 3-5=-1525/295, 5-6=-823/175, 6-7=-686/188

2-12=-506/1477, 10-12=-359/1087, 9-10=-116/407 **BOT CHORD**

WEBS 3-12=-271/164, 5-12=-82/530, 5-10=-573/241, 7-10=-172/665, 7-9=-889/262

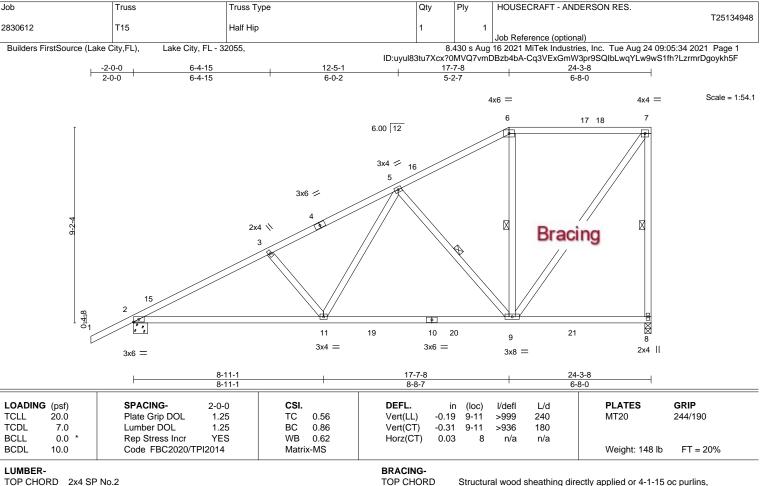
NOTES-

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 16-2-0, Exterior(2R) 16-2-0 to 20-4-15, Interior(1) 20-4-15 to 24-1-12 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) 9=232, 2=233,



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BOT CHORD

WEBS

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 8-3-2 oc bracing.

7-8, 5-9, 6-9

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 8=0-3-8, 2=0-8-0

Max Horz 2=333(LC 12)

Max Uplift 8=-254(LC 12), 2=-227(LC 12) Max Grav 8=1025(LC 2), 2=1072(LC 2)

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

TOP CHORD 2-3=-1652/301, 3-5=-1488/282, 5-6=-681/145, 6-7=-561/161, 7-8=-907/267

2-11=-507/1447, 9-11=-328/955 **BOT CHORD**

WEBS 3-11=-322/195, 5-11=-115/655, 5-9=-613/256, 7-9=-272/946

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-7-8, Exterior(2R) 17-7-8 to 21-10-7, Interior(1) 21-10-7 to 24-1-12 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) 8=254, 2=227,



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Job HOUSECRAFT - ANDERSON RES. Truss Truss Type Plv Qty T25134949 2830612 T16 Hip Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:39 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-YnsOHfKvLbR8GDJGOuV?FOdz0TlyMEkj_2YzL0ykh5A 40-9-0 -2-0-0 3-10-15 7-0-0 19-4-8 25-5-14 31-9-0 34-10-1 38-9-0

6-1-6

6-3-2

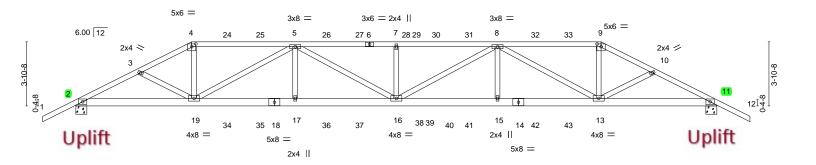
3-1-1

3-10-15

6-1-6

Scale = 1:69.6

2-0-0



		7-0-0 7-0-0	13-3-2 6-3-2	19-4-8 6-1-6	25-5-14 6-1-6	31-9- 6-3-		\dashv
Plate Offset	ts (X,Y)	[4:0-3-0,0-2-0], [9:0	-3-0,0-2-0]					
TCDL BCLL	(psf) 20.0 7.0 0.0 * 10.0	SPACING- Plate Grip Do Lumber DOL Rep Stress II Code FBC20	. 1.25	CSI. TC 0.73 BC 0.79 WB 0.67 Matrix-MS	DEFL. in Vert(LL) -0.36 Vert(CT) -0.68 Horz(CT) 0.14	16 >999 16 >685	180 n/a	IP /190 T = 20%

LUMBER-

2-0-0

3-10-15

3-1-1

6-3-2

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-6-8 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 11=0-8-0

Max Horz 2=-67(LC 9)

Max Uplift 2: -757(LC 8), 11=-777(LC 9) Max Grav 2=2954(LC 1), 11=2996(LC 1)

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

2-3=-5957/1497, 3-4=-5821/1462, 4-5=-5280/1354, 5-7=-8916/2279, 7-8=-8916/2279, TOP CHORD

8-9=-5363/1394, 9-10=-5914/1507, 10-11=-6050/1542

BOT CHORD 2-19=-1328/5281, 17-19=-1994/8011, 16-17=-1994/8011, 15-16=-2001/8053,

13-15=-2001/8053, 11-13=-1301/5364

WEBS 4-19=-419/2126, 5-19=-3187/876, 5-17=0/519, 5-16=-320/1082, 7-16=-695/360.

8-16=-286/1023, 8-15=0/519, 8-13=-3130/839, 9-13=-401/2102

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 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) except (jt=lb) 2=757 11=777



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 24,2021

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - ANDERSON RES.
2020642	T46	Llin Circles			T25134949
2830612	T16	Hip Girder	'	2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:39 2021 Page 2 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-YnsOHfKvLbR8GDJGOuV?FOdz0TlyMEkj_2YzL0ykh5A

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 15-0-12, 106 down and 83 lb up at 19-0-12, 106 lb down and 83 lb up at 19-8-4, 106 lb down and 88 lb up at 21-8-4, 106 lb down and 88 lb up at 23-8-4, 25-8-4, 106 lb down and 88 lb up at 27-8-4, and 106 lb down and 88 lb up at 29-8-4, and 219 lb down and 169 lb up at 31-9-0 on top chord, and 297 lb down and 74 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 11-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 17-0-12, 85 lb down at 18-0-12, 85 lb down 19-8-4, 85 lb down at 21-8-4, 85 lb down at 23-8-4, 85 lb down at 25-8-4, 85 lb down at 27-8-4, and 85 lb down at 29-8-4, and 297 lb down and 74 lb up at 31-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

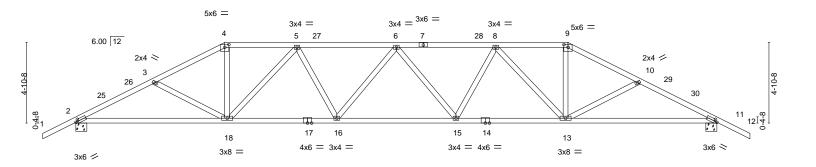
Vert: 1-4=-54, 4-9=-54, 9-12=-54, 2-11=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 9=-172(F) 19=-291(F) 5=-106(F) 17=-61(F) 15=-61(F) 8=-106(F) 13=-291(F) 24=-106(F) 25=-106(F) 25=-106(F) 27=-106(F) 28=-106(F) 29=-106(F) 29=-106(F) 29=-106(F) 28=-106(F) 30=-106(F) 31=-106(F) 32=-106(F) 33=-106(F) 34=-61(F) 35=-61(F) 36=-61(F) 37=-61(F) 38=-61(F) 39=-61(F) 40=-61(F) 41=-61(F) 42=-61(F) 43=-61(F)

Job HOUSECRAFT - ANDERSON RES. Truss Truss Type Qty PΙν T25134950 T17 2830612 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:40 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-0zQmV?LX6vZ?uNuSxb1EocADwt4B5hlsDilXtSykh59 -2-0-0 40-9-0 4-9-8 9-0-0 13-4-6 19-4-8 25-4-10 29-9-0 33-11-8 38-9-0 2-0-0 4-9-8 4-2-8 4-4-7 6-0-2 6-0-2 4-2-8 4-9-8 2-0-0

Scale = 1:69.6



<u> </u>	9-0-0 9-0-0	15-9-4 6-9-5	22-11-12 7-2-7	29-9-0 6-9-5	38-9-0 9-0-0
Plate Offsets (X,Y)	[2:0-1-15,0-1-8], [4:0-3-0,0-	2-0], [9:0-3-0,0-2-0], [11:0-	1-15,0-1-8]		T
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TPI	1.25 BC YES WB	0.85 Vert(CT) 0.65 Horz(CT)	in (loc) I/defl L/d -0.25 15-16 >999 240 -0.52 15-16 >899 180 0.16 11 n/a n/a	MT20 244/190

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-1-13 oc purlins.

Rigid ceiling directly applied or 7-5-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 11=0-8-0

Max Horz 2=82(LC 16)

Max Uplift 2=-355(LC 12), 11=-355(LC 13) Max Grav 2=1542(LC 1), 11=1542(LC 1)

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

TOP CHORD 2-3=-2734/603, 3-4=-2477/527, 4-5=-2191/504, 5-6=-2897/652, 6-8=-2897/652,

8-9=-2191/504, 9-10=-2477/528, 10-11=-2734/603

BOT CHORD 2-18=-537/2402, 16-18=-570/2737, 15-16=-637/3031, 13-15=-532/2737, 11-13=-456/2402 WEBS

3-18=-272/158, 4-18=-152/875, 5-18=-867/272, 5-16=-86/387, 6-16=-266/147, 6-15=-266/147, 8-15=-86/387, 8-13=-867/272, 9-13=-153/875, 10-13=-272/159

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-10-8, Interior(1) 1-10-8 to 9-0-0, Exterior(2R) 9-0-0 to 14-5-12, Interior(1) 14-5-12 to 29-9-0, Exterior(2R) 29-9-0 to 35-2-12, Interior(1) 35-2-12 to 40-9-0 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) 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.
- * 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) except (jt=lb) 2=355, 11=355.



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Job Qty Ply HOUSECRAFT - ANDERSON RES. Truss Truss Type T25134951 2830612 T18 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:41 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-VA_8iLM9sChsVXTeVJYTKpiOdHQDq6??SM14Puykh58 40-9-0 -2-0-0 5-7-15 11-0-0 16-8-11 27-9-0 33-1-1 38-9-0

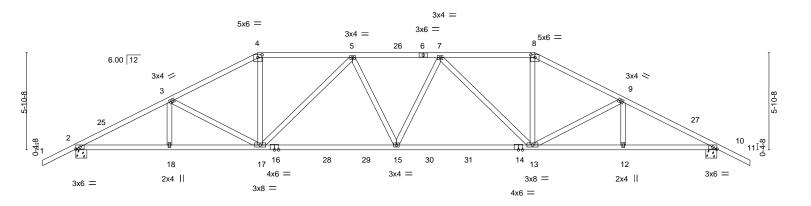
5-3-9

5-8-12

Scale = 1:69.6

2-0-0

5-7-15



	38-9-0
5-4-1	5-7-15
efl L/d	PLATES GRIP
99 240	MT20 244/190
53 180	
n/a n/a	
	Weight: 207 lb FT = 20%
	lefl L/d 99 240 53 180

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2-0-0

5-7-15

5-4-1

5-8-12

TOP CHORD 2x4 SP No.2 2x4 SP No.2 *Except* BOT CHORD 14-16: 2x4 SP M 31

WERS 2x4 SP No.3

REACTIONS. (size) 2=0-8-0, 10=0-8-0

Max Horz 2=97(LC 12)

Max Uplift 2=-353(LC 12), 10=-353(LC 13) Max Grav 2=1654(LC 2), 10=1654(LC 2)

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

TOP CHORD 2-3=-2997/575, 3-4=-2568/503, 4-5=-2269/486, 5-7=-2783/543, 7-8=-2269/486,

8-9=-2568/503, 9-10=-2997/575 2-18=-522/2636, 17-18=-522/2636, 15-17=-442/2698, 13-15=-422/2698, 12-13=-425/2636,

BOT CHORD 10-12=-425/2636

> 3-17=-455/181, 4-17=-106/898, 5-17=-677/207, 5-15=-52/260, 7-15=-52/260, 7-13=-677/207, 8-13=-106/898, 9-13=-456/182

NOTES-

WFBS

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-10-8, Interior(1) 1-10-8 to 11-0-0, Exterior(2R) 11-0-0 to 16-8-11, Interior(1) 16-8-11 to 27-9-0, Exterior(2R) 27-9-0 to 33-1-1, Interior(1) 33-1-1 to 40-9-0 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) 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=353, 10=353.



Structural wood sheathing directly applied or 3-2-13 oc purlins.

Rigid ceiling directly applied or 8-2-5 oc bracing.

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August 24,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HOUSECRAFT - ANDERSON RES. Job Qty Truss Truss Type Ρlν T25134952 2830612 T19 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:42 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-zMYWvhNndWpj7g1r303it1FYohmrZcj9h0neyLykh57 -2-0-0

25-9-0

6-4-8

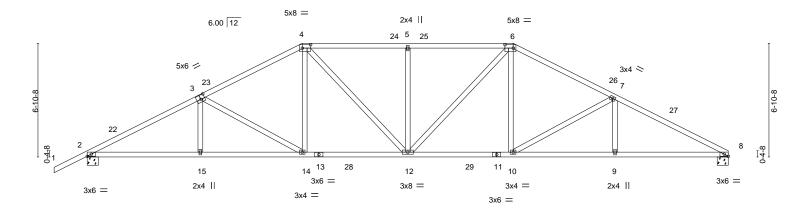
19-4-8

6-4-8

Scale = 1:69.6

38-9-0

6-10-2



		6-10-2	13-0-0	1	19-4-8		1	25-9-0	1	31-10-14	38-9-0	
		6-10-2	6-1-14	1	6-4-8		1	6-4-8		6-1-14	6-10-2	
Plate Offset	s (X,Y)	[3:0-3-0,0-3-0], [4:0-6-0	,0-2-8], [6:0-6-0,0)-2-8], [8:0-2	2-15,Edge]							
LOADING ((psf)	SPACING-	2-0-0	CSI.			DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.25	TC	0.50	١ ١	/ert(LL)	-0.23 10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.84	١ ١	/ert(CT)	-0.39 10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	l +	Horz(CT)	0.15 8	n/a	n/a		
	10.0	Code FBC2020/	-	Matri	x-MS		. ()				Weight: 207 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-10-13 oc purlins.

Rigid ceiling directly applied or 8-0-15 oc bracing.

31-10-14

6-1-14

REACTIONS. (size) 8=0-8-0, 2=0-8-0

Max Horz 2=126(LC 12)

6-10-2

6-10-2

2-0-0

13-0-0

6-1-14

Max Uplift 8=-307(LC 13), 2=-351(LC 12) Max Grav 8=1567(LC 2), 2=1660(LC 2)

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

2-3=-2969/561, 3-4=-2416/490, 4-5=-2376/524, 5-6=-2376/524, 6-7=-2420/494, TOP CHORD

7-8=-2990/577

BOT CHORD 2-15=-528/2604, 14-15=-528/2607, 12-14=-336/2110, 10-12=-284/2114, 9-10=-447/2626,

8-9=-447/2626

3-15=0/264, 3-14=-589/221, 4-14=-68/534, 4-12=-150/484, 5-12=-392/192,

6-12=-148/479, 6-10=-74/542, 7-10=-606/235, 7-9=0/267

NOTES-

WEBS

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-10-8, Interior(1) 1-10-8 to 13-0-0, Exterior(2R) 13-0-0 to 18-5-12, Interior(1) 18-5-12 to 25-9-0, Exterior(2R) 25-9-0 to 31-2-12, Interior(1) 31-2-12 to 38-9-0 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) 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.
- * 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) 8=307, 2=351.



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August 24,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HOUSECRAFT - ANDERSON RES. Job Truss Truss Type Qty Ρlν T25134953 2830612 T20 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:44 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-vlgHKMO2973QM_BDAR5AySKrYUSG1TqS8JGk0Dykh55

23-9-0

4-4-8

30-9-12

7-0-12

19-4-8

4-4-8

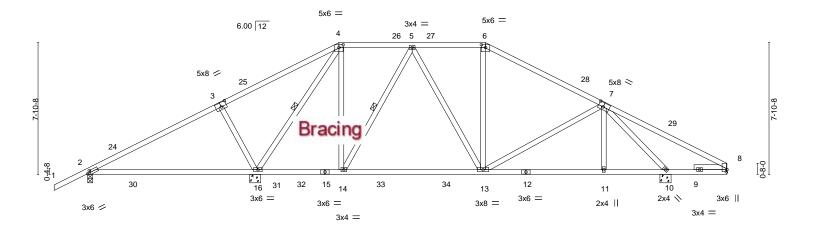
15-0-0

7-0-8

Scale = 1:68.8

38-2-0

34-6-0 34-10-0 38-2-0



	1000	1000	2000	00012	0 7 0 0 0 7 110 0 00 2 0			
	10-0-0	5-0-0	8-9-0	7-0-12	3-8-4 0-4-0 3-4-0			
Plate Offsets (X,Y) [2:0-1-15,0-1-8], [3:0-4-0,0-3-0], [4:0-3-0,0-2-0], [6:0-3-0,0-2-0], [7:0-3-8,0-3-0], [8:0-1-9,0-0-7]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in ((loc) I/defl L/d	PLATES GRIP			
TCLL 20.0	Plate Grip DOL 1.25	TC 0.68	Vert(LL) 0.47 16	6-19 >260 240	MT20 244/190			
TCDL 7.0	Lumber DOL 1.25	BC 0.78	Vert(CT) -0.50 16	6-19 >243 180				
BCLL 0.0	* Rep Stress Incr YES	WB 0.81	Horz(CT) 0.03	10 n/a n/a				
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	` '		Weight: 216 lb FT = 20%			
	I				•			

23-9-0

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

-2-0-0

2-0-0

7-11-8

7-11-8

SLIDER Right 2x4 SP No.3 1-11-8 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-5-14 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 8-10.

30-9-12

WFRS 4-16, 5-14 1 Row at midpt

REACTIONS.

(size) 2=0-3-8, 16=0-8-0, 10=0-8-0

10-0-0

Max Horz 2=147(LC 12)

Max Uplift 2=-111(LC 9), 16=-315(LC 12), 10=-279(LC 13) Max Grav 2=470(LC 25), 16=1457(LC 2), 10=1282(LC 2)

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

TOP CHORD 4-5=-531/184, 5-6=-804/258, 6-7=-976/242, 7-8=-209/338

BOT CHORD 14-16=-42/534, 13-14=-79/721, 11-13=-109/754, 10-11=-110/753, 8-10=-357/516 $3-16=-423/255,\ 4-16=-982/150,\ 4-14=-81/627,\ 5-14=-430/137,\ 7-10=-1419/360$ WEBS

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-9-13, Interior(1) 1-9-13 to 15-0-0, Exterior(2R) 15-0-0 to 20-4-12, Interior(1) 20-4-12 to 23-9-0, Exterior(2R) 23-9-0 to 29-1-12, Interior(1) 29-1-12 to 38-2-0 zone; cantilever right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

15-0-0

- 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.
- * 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=111, 16=315, 10=279.



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Job Qty Ply HOUSECRAFT - ANDERSON RES. Truss Truss Type T25134954 T21 2830612 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:45 2021 Page 1

ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-NxEfYiPgwRBH_8mQk9cPVft1hupRmxYbNz?IZgykh54

34-6-0

Structural wood sheathing directly applied or 5-9-5 oc purlins.

6-17, 7-17, 8-16

Rigid ceiling directly applied or 6-0-0 oc bracing.

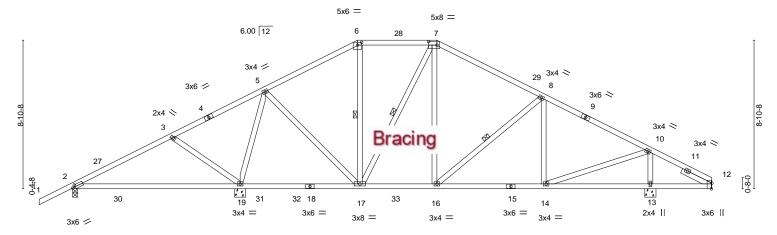
34-10-0 38-2-0

17-0-0 21-9-0 28-1-8 34-6-0 38-2-0 5-6-1 4-9-0 6-4-8 3-8-0

28-1-8

1 Row at midpt

Scale = 1:68.8



		10-0-0	17-0-0	21-3-0	20-1-0	34-0-0 34-1p-0 30-2-0		
		10-0-0	7-0-0	4-9-0	6-4-8	6-4-8 0-4-0 3-4-0		
Plate Offse	Plate Offsets (X,Y) [2:0-1-15,0-1-8], [6:0-3-0,0-2-0], [7:0-6-0,0-2-8], [12:0-4-1,Edge]							
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl L	/d PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL)	0.41 19-22 >290 2	40 MT20 244/190		
TCDL	7.0	Lumber DOL 1.25	BC 0.72	Vert(CT)	-0.39 19-22 >309 1	30		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT)	0.01 13 n/a r	/a		
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS	' '		Weight: 224 lb FT = 20%		
						_		

21-9-0

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

-2-0-0

2-0-0

5-11-15

5-11-15

11-5-15

5-6-1

SLIDER Right 2x4 SP No.3 1-11-8

REACTIONS. (size) 2=0-3-8, 19=0-8-0, 13=0-8-0

Max Horz 2=162(LC 12)

Max Uplift 2=-105(LC 8), 19=-332(LC 12), 13=-276(LC 13) Max Grav 2=413(LC 23), 19=1526(LC 2), 13=1256(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-5=-83/253, 5-6=-625/199, 6-7=-507/198, 7-8=-786/231, 8-10=-957/230

BOT CHORD 16-17=-7/646, 14-16=-80/802 WEBS

3-19=-349/236, 5-19=-1018/279, 5-17=-52/572, 7-17=-322/110, 7-16=-66/360,

10-14=-228/990, 10-13=-1047/373

10-0-0

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-9-13, Interior(1) 1-9-13 to 17-0-0, Exterior(2E) 17-0-0 to 21-9-0, Exterior(2R) 21-9-0 to 27-1-12, Interior(1) 27-1-12 to 38-2-0 zone; cantilever right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

17-0-0

- 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.
- * 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=105, 19=332, 13=276.



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HOUSECRAFT - ANDERSON RES. Job Ply Truss Truss Type Qty T25134955 2830612 T22 Roof Special Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:46 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-r7o1l2QIhIJ8clLcls7e1tQBol9?VKlkbdlr56ykh53

34-10-0

Structural wood sheathing directly applied or 5-9-6 oc purlins.

7-16, 9-15

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

-2-0-0 23-1-6 6-4-3 12-2-7 18-0-12 20-5-14 30-3-0 38-2-0 2-0-0 6-4-3 5-10-5 5-10-5 2-5-2 2-7-8 7-1-10

Scale = 1:69.8

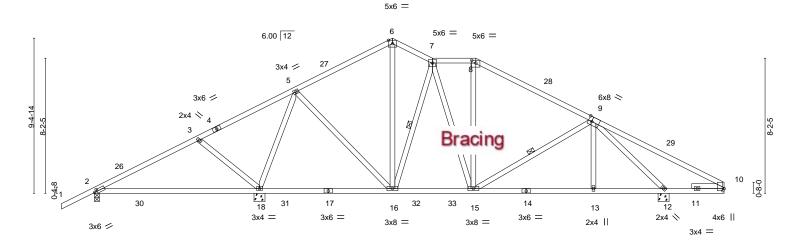


Plate Off	Plate Offsets (X,Y) [2:0-1-15,0-1-8], [8:0-3-0,0-2-0], [9:0-2-8,Edge], [10:0-1-9,0-0-15]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/o	defl L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	0.44 18-21 >2	275 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.38 18-21 >3	314 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.02 12	n/a n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS				Weight: 230 lb	FT = 20%

5-0-10

BRACING-

WEBS

TOP CHORD

BOT CHORD

18-0-12

8-0-12

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

SLIDER Right 2x4 SP No.3 1-11-8

REACTIONS. (size) 2=0-3-8, 18=0-8-0, 12=0-8-0

Max Horz 2=169(LC 12)

Max Uplift 2=-108(LC 8), 18=-319(LC 12), 12=-277(LC 13) Max Grav 2=410(LC 23), 18=1572(LC 2), 12=1239(LC 2)

10-0-0

10-0-0

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

TOP CHORD 3-5=-83/312, 5-6=-640/224, 6-7=-582/226, 7-8=-701/257, 8-9=-862/241, 9-10=-208/351

BOT CHORD 15-16=-19/655, 13-15=-110/769, 12-13=-110/771, 10-12=-423/641 WEBS

3-18=-354/230, 5-18=-1048/258, 5-16=-51/514, 6-16=-123/347, 7-16=-491/206,

9-12=-1395/376

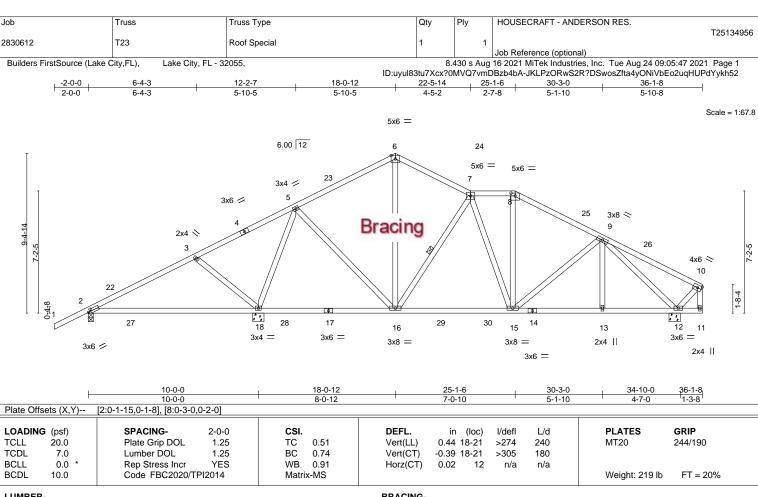
NOTES-

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-9-13, Interior(1) 1-9-13 to 18-0-12, Exterior(2E) 18-0-12 to 20-5-14, Interior(1) 20-5-14 to 23-1-6, Exterior(2R) 23-1-6 to 26-11-3, Interior(1) 26-11-3 to 38-2-0 zone; cantilever right exposed; porch left 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.
- * 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=108, 18=319, 12=277.



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LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-10 oc purlins,

except end verticals

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 2-18.

WEBS

1 Row at midpt 7-16

REACTIONS.

(size) 2=0-3-8, 18=0-8-0, 12=0-8-0

Max Horz 2=191(LC 12)

Max Uplift 2=-102(LC 8), 18=-328(LC 12), 12=-226(LC 13) Max Grav 2=407(LC 23), 18=1600(LC 2), 12=1053(LC 2)

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

TOP CHORD 3-5=-96/322, 5-6=-660/229, 6-7=-636/226, 7-8=-807/261, 8-9=-957/259

BOT CHORD 15-16=-104/803, 13-15=-144/814, 12-13=-144/814

3-18=-355/231, 5-18=-1086/266, 5-16=-66/544, 6-16=-89/332, 7-16=-507/216, WEBS

9-12=-1173/250

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-7-6, Interior(1) 1-7-6 to 18-0-12, Exterior(2R) 18-0-12 to 21-8-2, Interior(1) 21-8-2 to 25-1-6, Exterior(2R) 25-1-6 to 28-8-12, Interior(1) 28-8-12 to 35-11-12 zone; cantilever right exposed; porch left 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.
- * 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=102, 18=328, 12=226.



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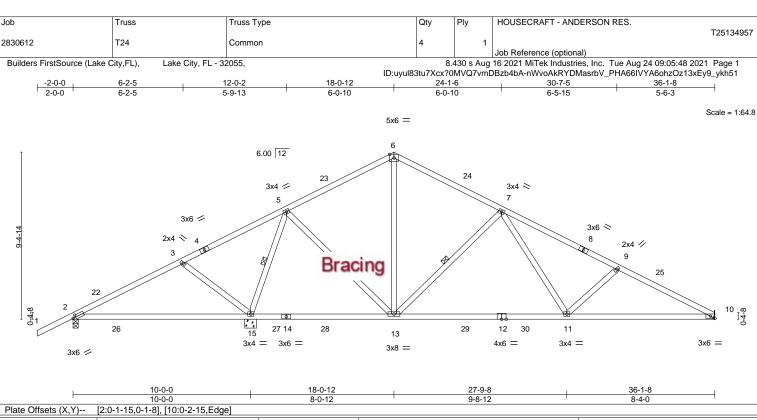
August 24,2021

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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LOADING (psf) SPACING-CSL 2-0-0 **TCLL** 20.0 Plate Grip DOL 1.25 TC **TCDL** 7.0 Lumber DOL 1.25 ВС **BCLL** 0.0 Rep Stress Incr YES WB

DEFI in (loc) I/defl L/d Vert(LL) 0.43 15-18 >276 240 Vert(CT) 0.37 15-18 >325 180 Horz(CT) 0.03 10 n/a n/a

PLATES GRIP MT20 244/190

Weight: 187 lb FT = 20%

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

10.0

BRACING-

0.57

0.94

0.35

Matrix-MS

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 4-2-14 oc purlins.

Rigid ceiling directly applied or 2-2-0 oc bracing. 1 Row at midpt 5-15, 7-13

REACTIONS.

(size) 2=0-3-8, 15=0-8-0, 10=Mechanical

Code FBC2020/TPI2014

Max Horz 2=164(LC 12)

Max Uplift 2=-109(LC 9), 15=-342(LC 12), 10=-209(LC 13) Max Grav 2=357(LC 23), 15=1811(LC 2), 10=971(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-83/318, 3-5=-111/545, 5-6=-643/218, 6-7=-645/214, 7-9=-1535/347,

9-10=-1716/391

BOT CHORD 11-13=-108/975, 10-11=-297/1515

3-15=-357/233, 5-15=-1322/284, 5-13=-95/753, 6-13=-78/306, 7-13=-654/281, WEBS

7-11=-98/657, 9-11=-326/199

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-7-6, Interior(1) 1-7-6 to 18-0-12, Exterior(2R) 18-0-12 to 21-8-2, Interior(1) 21-8-2 to 36-1-8 zone; porch left 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) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=109, 15=342, 10=209.



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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Qty Ply HOUSECRAFT - ANDERSON RES. Truss Truss Type T25134958 T25 2830612 Common 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:49 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-GiTAN4SA_gijTl4Bz_hLfV2l_VFJip0BlbzViRykh50 -2-0-0 5-6-3 12-0-2 18-0-12 24-1-6 30-7-5 36-1-8 2-0-0 5-6-3 6-5-15 6-0-10 6-0-10 6-5-15 5-6-3 Scale = 1:62.6 5x6 =6 6.00 12 3x4 🖊 3x4 < 5 3x6 / 3x6 > 8 2x4 📏 Bracing 2x4 / 15 26 14 27 28 12 29 11 13 3x4 = 4x6 = 4x6 = 3x4 = 3x6 =3x8 = 3x6 =18-0-12 8-4-0 9-8-12 9-8-12 8-4-0 Plate Offsets (X,Y)--[10:0-2-15,Edge]

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP M 31 2x4 SP No.3 WEBS

20.0

7.0

0.0

10.0

BRACING-

DEFI

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

0.09

-0.28 13-15

-0.49 13-15

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 3-3-12 oc purlins.

PLATES

Weight: 187 lb

MT20

GRIP

244/190

FT = 20%

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 7-13, 5-13

L/d

240

180

n/a

I/defl

>999

>891

n/a

REACTIONS. (size) 2=0-8-0, 10=Mechanical

Max Horz 2=164(LC 16)

Max Uplift 2=-321(LC 12), 10=-277(LC 13) Max Grav 2=1568(LC 2), 10=1475(LC 2)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-2796/522, 3-5=-2613/482, 5-6=-1776/402, 6-7=-1776/409, 7-9=-2631/498,

2-0-0

1.25

1.25

YES

9-10=-2808/538

2-15=-545/2464, 13-15=-363/1969, 11-13=-276/1975, 10-11=-427/2487 **BOT CHORD** 6-13=-223/1293, 7-13=-638/281, 7-11=-97/626, 9-11=-316/197, 5-13=-631/276, WEBS

5-15=-85/608, 3-15=-302/189

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-7-6, Interior(1) 1-7-6 to 18-0-12, Exterior(2R) 18-0-12 to 21-8-2, Interior(1) 21-8-2 to 36-1-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSL

TC

вс

WB

Matrix-MS

0.44

0.46

0.49

- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=321, 10=277.



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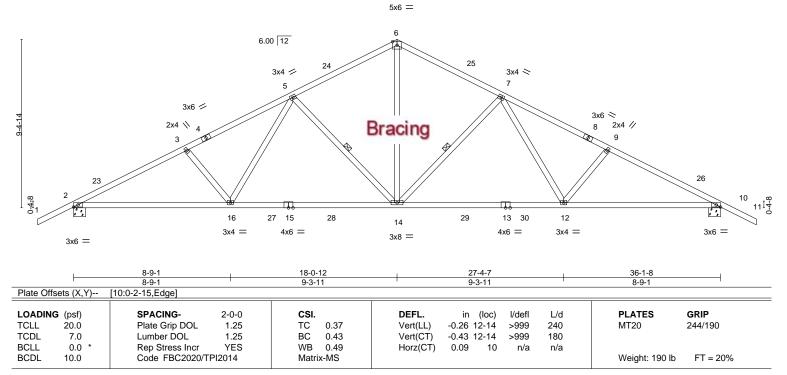
Job Qty HOUSECRAFT - ANDERSON RES. Truss Truss Type Ply T25134959 T26 2830612 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:50 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-kv1YbQTolzqa4vfNXiCaCjaxovb8RGJKWFj3Etykh5? -2-0-0 6-3-14 12-2-15 18-0-12 23-10-9 29-9-10 36-1-8 38-1-8

5-9-13

5-9-13

2-0-0 Scale: 3/16"=1"

6-3-14



LUMBER-

2-0-0

6-3-14

5-11-1

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP M 31 2x4 SP No.3 WEBS

BRACING-

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 3-3-1 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. 7-14, 5-14 1 Row at midpt

5-11-1

REACTIONS.

(size) 2=0-8-0, 10=0-8-0 Max Horz 2=149(LC 12)

Max Uplift 2=-321(LC 12), 10=-321(LC 13)

Max Grav 2=1565(LC 2), 10=1565(LC 2)

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

TOP CHORD 2-3=-2743/504, 3-5=-2579/488, 5-6=-1761/401, 6-7=-1761/401, 7-9=-2579/489,

9-10=-2743/504

2-16=-504/2409, 14-16=-337/1945, 12-14=-237/1945, 10-12=-355/2409 **BOT CHORD** WEBS

 $6\text{-}14\text{=-}218/1285, \ 7\text{-}14\text{=-}628/269, \ 7\text{-}12\text{=-}106/631, \ 9\text{-}12\text{=-}298/185, \ 5\text{-}14\text{=-}628/269, \ 7\text{-}12\text{=-}106/631, \ 9\text{-}12\text{=-}298/185, \ 9\text{-}298/185, \ 9\text{$

5-16=-106/631, 3-16=-298/185

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-7-6, Interior(1) 1-7-6 to 18-0-12, Exterior(2R) 18-0-12 to 21-8-2, Interior(1) 21-8-2 to 38-1-8 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.
- * 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=321, 10=321.



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Job Qty HOUSECRAFT - ANDERSON RES. Truss Truss Type Ply T25134960 T27 2830612 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:51 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-C5bwomURWHyRi3DZ5Pjpkw75qJvKAk9UlvScmJykh5_ 2-0-0 10-9-0 16-0-0 21-6-0 23-6-0 2-0-0 5-6-0 5-3-0 5-3-0 5-6-0 2-0-0

Scale = 1:40.9

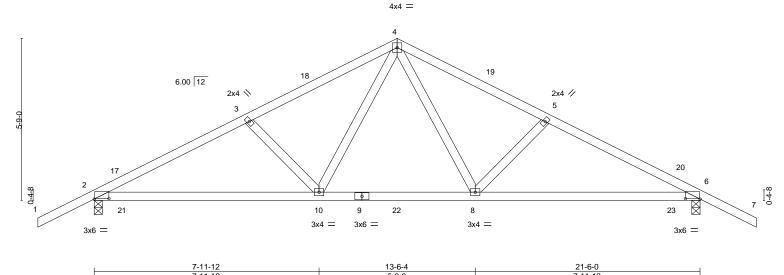


Plate Offsets (X,Y)	7-11-12 [2:0-6-4,0-0-3], [6:0-6-4,0-0-3]		5-6-8	'	7-11-	-12	·
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0 TCDL 7.0	Plate Grip DOL 1.25 Lumber DOL 1.25	TC 0.42 BC 0.56	- '(/).19 8-16).20 10-13	>999 240 >999 180	MT20	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.39 Matrix-MS	Horz(CT) 0	0.03 6	n/a n/a	Weight: 103 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-11-9 oc purlins.

Rigid ceiling directly applied or 5-2-8 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=95(LC 12)

Max Uplift 2=-226(LC 9), 6=-226(LC 8) Max Grav 2=904(LC 1), 6=904(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1340/1219, 3-4=-1138/1178, 4-5=-1138/1178, 5-6=-1340/1219 TOP CHORD

BOT CHORD 2-10=-1005/1155, 8-10=-638/778, 6-8=-1027/1155

WEBS 4-8=-538/397, 5-8=-303/212, 4-10=-538/397, 3-10=-303/212

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-9-0, Exterior(2R) 10-9-0 to 13-9-0, Interior(1) 13-9-0 to 23-6-0 zone; porch left and 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=226, 6=226.



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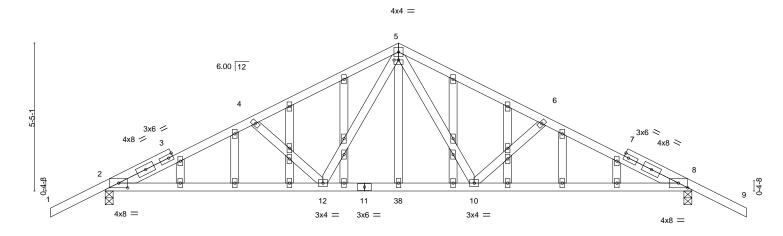


Job Qty HOUSECRAFT - ANDERSON RES. Truss Truss Type Ply T25134961 GABLE 2830612 T27G Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:52 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-gH9I05U3Hb4IKDome7E2H8gE3jGVvB5d_ZCAHmykh4z -2-0-0 5-6-0 10-9-0 16-0-0 21-6-0 23-6-0 5-6-0 5-3-0

5-3-0

Scale = 1:42.2

2-0-0



	7-11-12	13-6		21-6-0	
	7-11-12	5-6	-8 '	7-11-12	<u>'</u>
Plate Offsets (X,	[2:0-4-0,0-2-1], [5:0-2-0,0-0-0], [8:0-4-0,)-2-1]			
LOADING (psf)	SPACING- 2-0-0	CSI. DE	El in (los)	I/defl L/d	PLATES GRIP
(1 /			(/		
TCLL 20.0	Plate Grip DOL 1.25	TC 0.51 Ver	t(LL) 0.18 10-37	>999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.50 Vei	t(CT) -0.16 12-34	>999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.41 Ho	rz(CT) 0.03 8	n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 142 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS 2x4 SP No.3 OTHERS

2-0-0

REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=-90(LC 13)

Max Uplift 2=-225(LC 9), 8=-225(LC 8) Max Grav 2=901(LC 1), 8=901(LC 1)

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

TOP CHORD 2-4=-1399/1478, 4-5=-1185/1379, 5-6=-1185/1379, 6-8=-1399/1477

BOT CHORD 2-12=-1275/1251, 10-12=-750/801, 8-10=-1282/1251

5-10=-621/414, 6-10=-349/327, 5-12=-621/414, 4-12=-349/327 WEBS

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 1-1-11, Exterior(2N) 1-1-11 to 10-9-0, Corner(3R) 10-9-0 to 13-9-0, Exterior(2N) 13-9-0 to 23-6-0 zone; porch left and 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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) except (jt=lb) 2=225, 8=225.



Structural wood sheathing directly applied or 4-11-9 oc purlins.

Rigid ceiling directly applied or 4-7-6 oc bracing.

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August 24,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Qty HOUSECRAFT - ANDERSON RES. Truss Truss Type Ply T25134962 T28 2830612 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:53 2021 Page 1 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-8UjhDRVh2uC9xNNyCqlHpLCS17c8ee1mCDxjqCykh4y -2-0-0 5-6-0 10-9-0 16-0-0 21-6-0 2-0-0 5-6-0 5-3-0 Scale = 1:38.1 4x4 = 18 6.00 12 2x4 📏 2x4 // 5 3 19 16 24-8

	7-11-12	13-6-4	13 _t 8-0	21-6-0	1
	7-11-12	5-6-8	0-1-12	7-10-0	
Plate Offsets (X,Y)	[2:0-6-0,0-0-4], [6:0-6-0,0-0-3]				

BRACING-

TOP CHORD

BOT CHORD

8

3x6

3x4 =

 \mathbb{R}

3x4 =

I/defl

>531

>646

n/a

in (loc)

0.18 7-12

0.15 7-12

0.01

L/d

240

180

n/a

Rigid ceiling directly applied or 6-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

PLATES

Weight: 99 lb

MT20

GRIP

244/190

FT = 20%

LOADING (psf) TCLL 20.0 TCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25	CSI. TC 0.37 BC 0.47	Vert(LL)
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT)
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

3x6 =

REACTIONS. (size) 6=0-4-10, 2=0-8-0, 7=0-3-8

Max Horz 2=109(LC 16)

Max Uplift 6=-77(LC 8), 2=-148(LC 9), 7=-214(LC 9) Max Grav 6=252(LC 24), 2=570(LC 1), 7=911(LC 1)

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

2-3=-602/538, 3-4=-409/494 TOP CHORD

BOT CHORD 2-9=-453/509

4-7=-584/409, 5-7=-334/237, 4-9=-541/402, 3-9=-311/224 WEBS

NOTES-

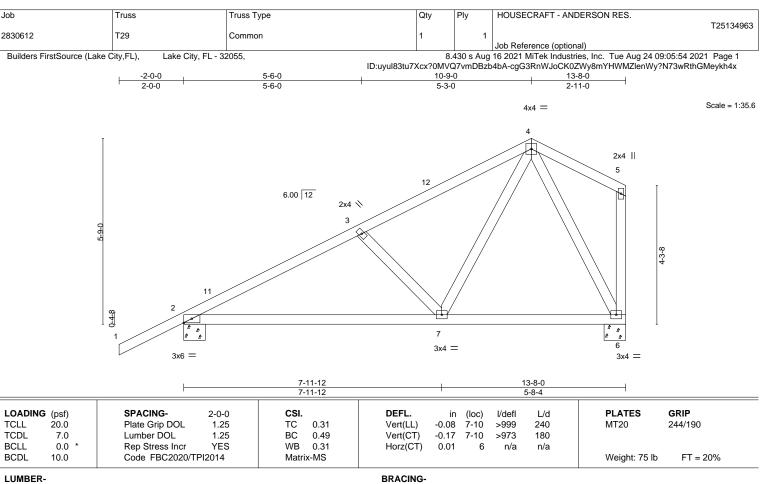
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-9-0, Exterior(2R) 10-9-0 to 13-9-0, Interior(1) 13-9-0 to 21-6-0 zone; porch left and 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=148, 7=214.



3x6 =

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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 2=0-8-0, 6=0-8-0 Max Horz 2=187(LC 12)

Max Uplift 2=-149(LC 12), 6=-122(LC 12)

Max Grav 2=616(LC 1), 6=492(LC 1)

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

TOP CHORD 2-3=-708/225, 3-4=-514/182

BOT CHORD 2-7=-303/602

WEBS 3-7=-307/219, 4-7=-129/435, 4-6=-436/206

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-9-0, Exterior(2E) 10-9-0 to 13-6-4 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=149. 6=122.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

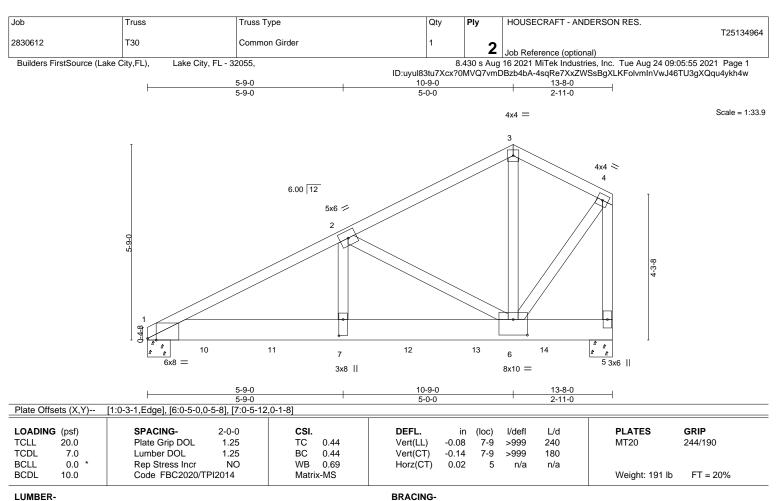
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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August 24,2021





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E

2x4 SP No.3 WEBS

REACTIONS. (size) 1=0-8-0, 5=0-8-0

Max Horz 1=158(LC 27)

Max Uplift 1=-863(LC 8), 5=-1025(LC 8) Max Grav 1=4115(LC 2), 5=4500(LC 2)

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

1-2=-6036/1302, 2-3=-1969/441, 3-4=-1936/460, 4-5=-3294/766 TOP CHORD

BOT CHORD 1-7=-1263/5390, 6-7=-1263/5390

2-7=-718/3601, 2-6=-4211/991, 3-6=-322/1571, 4-6=-680/2927 WEBS

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-6-0 oc.
 - Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1455 lb down and 297 lb up at 1-8-6, 1455 lb down and 297 lb up at 3-8-6, 951 lb down and 229 lb up at 5-8-6, 951 lb down and 229 lb up at 7-8-6, 951 lb down and 229 lb up at 9-8-6, and 951 lb down and 229 lb up at 11-8-6, and 1036 lb down and 242 lb up at 13-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Structural wood sheathing directly applied or 4-8-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 24,2021

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - ANDERSON RES.
2830612	T30	Common Girder	1	_	T25134964
2030012	130	Common Girder	'	2	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Aug 24 09:05:55 2021 Page 2 ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-4sqRe7XxZWSsBgXLKFolvmlnVwJ46TU3gXQqu4ykh4w

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-54, 1-5=-20

Concentrated Loads (lb)

Vert: 5=-947 7=-862(F) 10=-1314(F) 11=-1314(F) 12=-862(F) 13=-862(F) 14=-862(F)

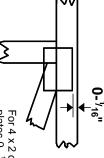


Symbols

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 × 4

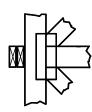
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



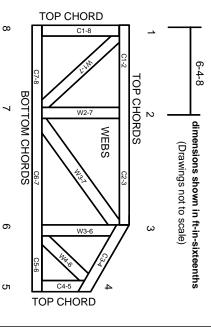
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 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.