

Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

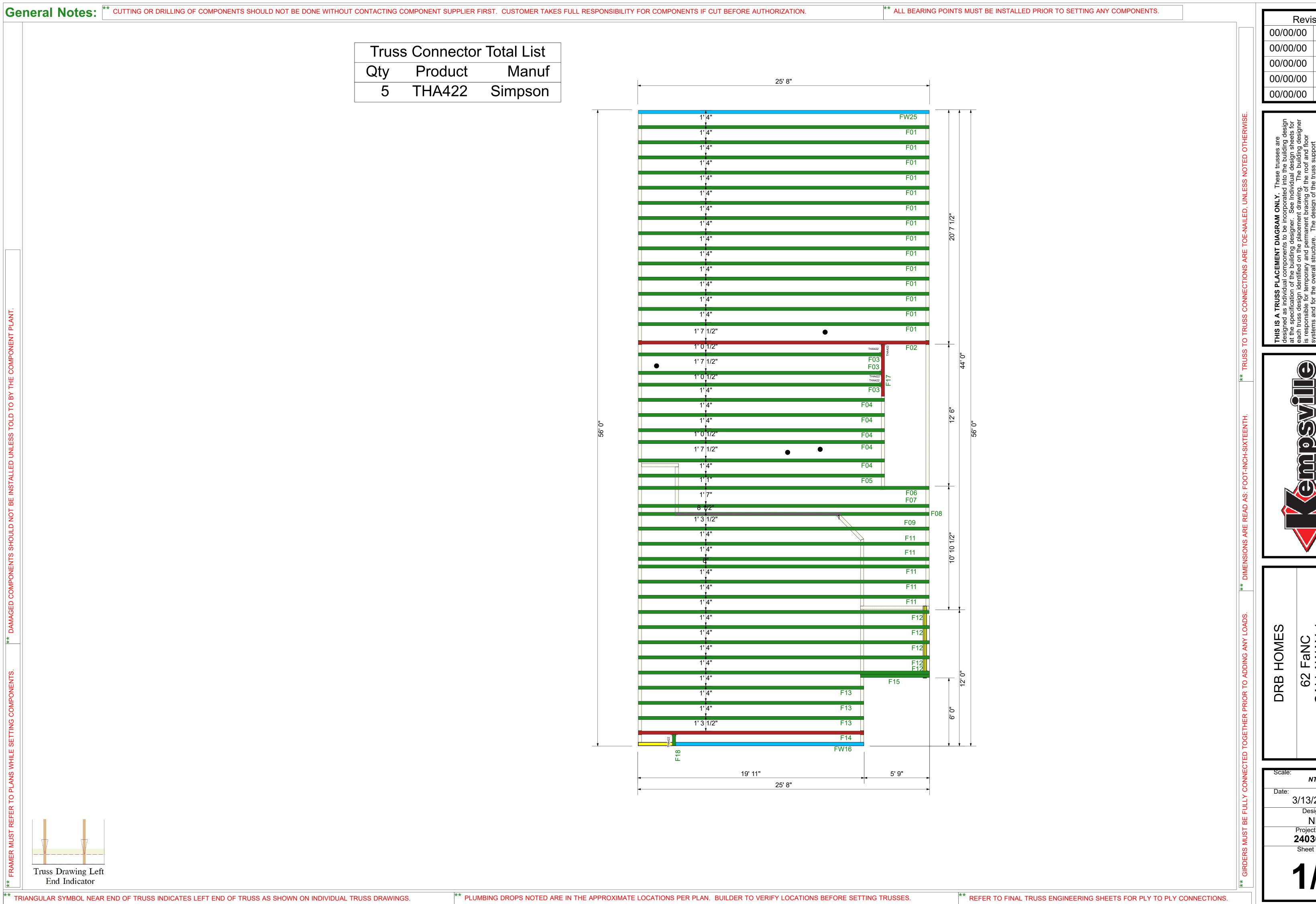
Builder: DRB HOMES
Model: 62 FaNC
CALLAWAY 1



THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.

Apprved by:	Date:
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Revisions Name Name Name

Name

3/13/2024 Designer: Project Number: 24030125 Sheet Number:

** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS

JMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES

** GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

3/13/2024

Designer:
ND Project Number: 24030125
Sheet Number: NTS

DRB HOMES

62 FaNC CALLAWAY 1 COMPONENT

PLACEMENT PLAN



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179 Drive: Madison, WI 53179

Revisions	sions
00/00/00	Name

General Notes:

** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER

FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.



RE: 24030125 Trenco

DRB - 62 FaNC 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: 24030125

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 27 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	164050785	A01	3/6/2024	21	164050805	F13	3/6/2024
2	164050786	A02	3/6/2024	22	164050806	F14	3/6/2024
3	164050787	A04	3/6/2024	23	164050807	F15	3/6/2024
4	164050788	A05	3/6/2024	24	164050808	F17	3/6/2024
5	164050789	B01	3/6/2024	25	164050809	F18	3/6/2024
6	164050790	B02	3/6/2024	26	164050810	FW16	3/6/2024
7	164050791	C01	3/6/2024	27	164050811	FW25	3/6/2024
8	164050792	D01	3/6/2024				
9	164050793	D02	3/6/2024				
10	164050794	F01	3/6/2024				
11	164050795	F02	3/6/2024				
12	164050796	F03	3/6/2024				
13	164050797	F04	3/6/2024				
14	164050798	F05	3/6/2024				
15	164050799	F06	3/6/2024				
16	164050800	F07	3/6/2024				
17	164050801	F08	3/6/2024				
18	164050802	F09	3/6/2024				
19	164050803	F11	3/6/2024				
20	164050804	F12	3/6/2024				
19	164050803	F11	3/6/2024				

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Carter Components (Sanford, NC)).

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2024

North Carolina COA: C-0844

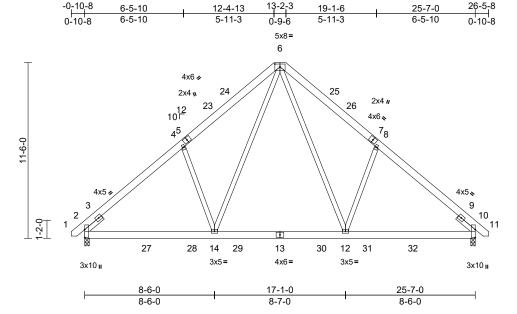
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



March 06, 2024

Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	A01	Common	17	1	Job Reference (optional)	164050785

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:20 ID:j97jP69sgrd5veAkaODY7wzhJJm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:75.5

Plate Offsets (X, Y): [6:0-4-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.08	12-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.12	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 199 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.2 *Except* 12-8,14-4:2x4 SP No.3 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8. 10=0-3-8

> Max Horiz 2=-260 (LC 12) Max Uplift 2=-87 (LC 14), 10=-87 (LC 15)

Max Grav 2=1240 (LC 24), 10=1240 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/27, 2-4=-1390/153, 4-6=-1303/270

6-8=-1303/270, 8-10=-1390/153, 10-11=0/27

BOT CHORD 2-14=-208/1148, 12-14=0/783,

10-12=-46/1013

WEBS 6-12=-189/717, 8-12=-344/285,

6-14=-189/717, 4-14=-344/285

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-5 to 2-3-11, Interior (1) 2-3-11 to 9-9-8, Exterior(2R) 9-9-8 to 15-9-8, Interior (1) 15-9-8 to 23-3-5, Exterior(2E) 23-3-5 to 26-3-5 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

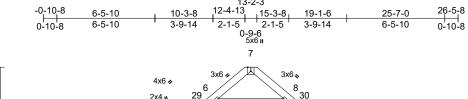


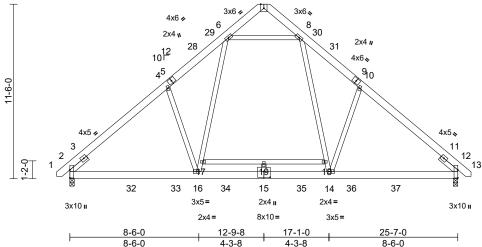
March 6,2024

Page: 1

Job)	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24	030125	A02	Common	8	1	Job Reference (optional)	164050786

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Mar 05 14:05:22 ID:8MzQR?Qjx6sC?nivExcAt3zhJI7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:76

Plate Offsets (X, Y): [7:0-3-4,Edge], [15:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.09	16-22	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.15	15-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 211 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 2=260 (LC 13)

Max Grav 2=1298 (LC 24), 12=1298 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-4=-1478/0, 4-6=-1371/91.

6-7=-196/87, 7-8=-196/87, 8-10=-1372/91,

10-12=-1478/0, 12-13=0/27 2-16=-142/1197, 14-16=0/951,

BOT CHORD 12-14=-1/1069

WEBS 8-18=-71/708, 14-18=-81/696

10-14=-302/308, 16-17=-80/696,

6-17=-71/707, 4-16=-302/308, 6-8=-811/97,

17-19=-1/5, 18-19=-1/5, 15-19=0/28

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-5 to 2-3-11, Interior (1) 2-3-11 to 9-9-8, Exterior(2R) 9-9-8 to 15-9-8, Interior (1) 15-9-8 to 23-3-5, Exterior(2E) 23-3-5 to 26-3-5 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 200.0lb AC unit load placed on the bottom chord, 12-9-8 from left end, supported at two points, 5-0-0 apart.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 6,2024

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

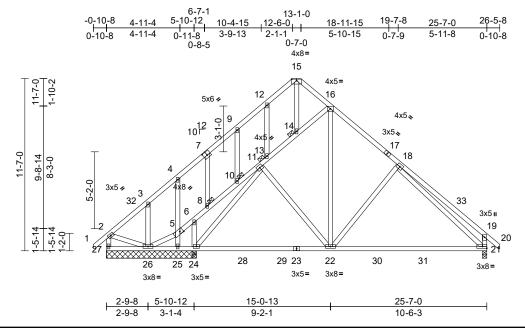
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	A04	Common	1	1	Job Reference (optional)	164050787

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:23 ID:UOz0qTq2DxjYgjXtYN8XdqzhJCR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:77.5

Plate Offsets	(X, Y):	[5:0-2-8,0-2-0],	[7:0-3-0,0-3-0]
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Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.33	21-22	>702	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.56	21-22	>417	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.02	21	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 211 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 1 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 26-27. **JOINTS**

1 Brace at Jt(s): 14,

13, 10, 8

REACTIONS (size) 21=0-3-8, 24=6-0-8, 25=6-0-8, 26=6-0-8 27=6-0-8

Max Horiz 27=-290 (LC 12)

Max Uplift 21=-43 (LC 15), 24=-139 (LC 14),

25=-218 (LC 23), 26=-223 (LC 14),

27=-25 (LC 12)

21=944 (LC 25), 24=1139 (LC 24), Max Grav 25=-39 (LC 34), 26=298 (LC 24),

27=350 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

BOT CHORD

2-27=-312/98, 19-21=-520/239, 5-6=-85/127,

6-8=-199/233, 8-10=-135/176,

10-11=-105/138, 11-13=-686/268

13-14=-629/191, 14-16=-631/203, 1-2=0/36,

2-3=-372/163, 3-4=-283/113, 4-9=-206/71, 9-12=-111/27, 12-15=-118/51, 15-16=-129/50,

16-18=-734/134, 18-19=-561/225,

19-20=0/36

26-27=-268/282, 25-26=-75/271,

24-25=-74/257, 22-24=0/577, 21-22=0/612

WEBS

14-15=-21/17, 12-13=-172/131, 9-10=-86/65, 7-8=-136/98, 5-25=-60/80, 4-5=-138/103, 3-26=-139/108, 6-24=-258/176, 16-22=-107/569, 11-22=-87/114,

11-24=-613/134, 18-22=-236/221,

18-21=-462/0, 2-26=-174/352, 5-26=-102/127

NOTES

Unbalanced roof live loads have been considered for 1) this design

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-14 to 2-2-2, Exterior(2N) 2-2-2 to 9-9-8, Corner(3R) 9-9-8 to 15-9-8, Exterior(2N) 15-9-8 to 23-4-14, Corner(3E) 23-4-14 to 26-4-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 27, 21, 25, 26, and 24. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

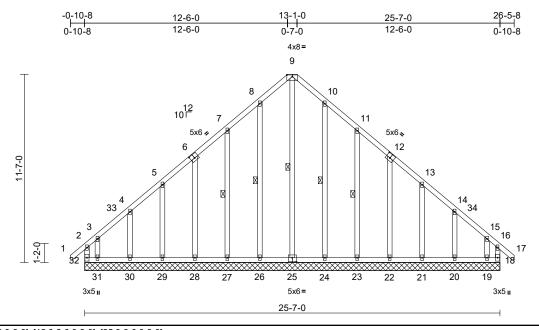
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply		
24030125	A05	Common	1	1	Job Reference (optional)	64050788

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:23 ID: qrWsZJexwYTmDiG3xJcR3zhJ9E-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71

Plate Offsets (X, Y): [6:0-3-0,0-3-0], [12:0-3-0,0-3-0], [25:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	18	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 207 lb	FT = 20%

L	U	M	В	E	R

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

OTHERS 2x4 SP No.3 *Except* 25-9:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 9-25, 8-26, 7-27, 10-24,

11-23

REACTIONS (size)

18=25-7-0, 19=25-7-0, 20=25-7-0, 21=25-7-0, 22=25-7-0, 23=25-7-0, 24=25-7-0, 25=25-7-0, 26=25-7-0, 27=25-7-0, 28=25-7-0, 29=25-7-0, 30=25-7-0, 31=25-7-0, 32=25-7-0

Max Horiz 32=-299 (LC 12) Max Uplift 18=-241 (LC 13), 19=-294 (LC 15),

20=-70 (LC 15), 21=-73 (LC 15),

22=-75 (LC 15), 23=-87 (LC 15), 24=-62 (LC 15), 26=-63 (LC 14), 27=-87 (LC 14), 28=-75 (LC 14), 29=-73 (LC 14), 30=-69 (LC 14),

Max Grav

31=-324 (LC 14), 32=-327 (LC 12) 18=328 (LC 10), 19=285 (LC 13), 20=176 (LC 25), 21=167 (LC 25), 22=173 (LC 25), 23=209 (LC 22), 24=269 (LC 22), 25=339 (LC 15), 26=269 (LC 21), 27=209 (LC 21),

28=173 (LC 24), 29=167 (LC 24), 30=174 (LC 24), 31=344 (LC 12),

32=410 (LC 11) (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/37, 2-3=-291/258, 3-4=-177/174,

4-5=-154/154, 5-7=-132/213, 7-8=-148/295, 8-9=-186/358, 9-10=-186/358, 10-11=-148/295, 11-13=-100/213,

13-14=-108/110. 14-15=-134/128. 15-16=-245/195, 16-17=0/37, 2-32=-260/194,

16-18=-206/140

BOT CHORD 31-32=-138/158, 30-31=-138/158,

29-30=-138/158, 28-29=-138/158, 27-28=-139/158, 26-27=-139/158, 24-26=-139/158, 23-24=-139/158,

22-23=-139/158, 21-22=-137/157 20-21=-137/157, 19-20=-137/157,

18-19=-137/157

WEBS 9-25=-388/137, 8-26=-229/87

7-27=-169/110, 6-28=-133/100, 5-29=-126/95, 4-30=-139/103, 3-31=-172/195, 10-24=-229/86 11-23=-169/111, 12-22=-133/99, 13-21=-126/95, 14-20=-139/103,

15-19=-144/181

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-14 to 2-2-2. Exterior(2N) 2-2-2 to 9-9-8, Corner(3R) 9-9-8 to 15-9-8, Exterior(2N) 15-9-8 to 23-4-14, Corner(3E) 23-4-14 to 26-4-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 5) Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



March 6,2024

Continued on page 2

FORCES

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



ĺ	Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
l	24030125	A05	Common	1	1	l6 Job Reference (optional)	4050788

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Mar 05 14:05:23

Page: 2

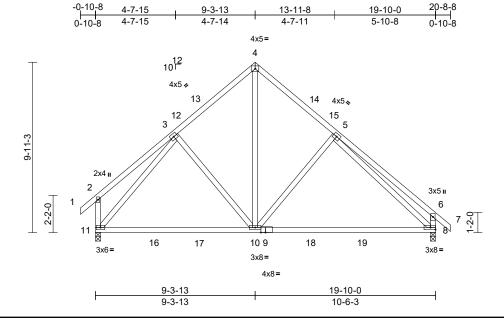
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 32, 241 lb uplift at joint 18, 63 lb uplift at joint 26, 87 lb uplift at joint 27, 75 lb uplift at joint 28, 73 lb uplift at joint 29, 69 lb uplift at joint 30, 324 lb uplift at joint 31, 62 lb uplift at joint 24, 87 lb uplift at joint 32, 75 lb uplift at joint 31, 87 lb uplift at joint 31, 87 lb uplift at joint 32, 87 lb uplift at joint 34, 87 lb uplift at joint 37, 87 lb uplift at joint 3 Ib uplift at joint 24, 87 lb uplift at joint 23, 75 lb uplift at joint 22, 73 lb uplift at joint 21, 70 lb uplift at joint 20 and 294 lb uplift at joint 19.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	B01	Common	2	1	Job Reference (optional)	164050789

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:24 ID:poo3p3?OWRjN6 ZDvPrzF4zhJ8L-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.2

Plate Offsets (X, Y): [9:0-3-3,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.32	8-10	>725	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.55	8-10	>430	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 132 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 1 **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 8=0-3-8, 11=0-3-8 Max Horiz 11=-268 (LC 12)

Max Uplift 8=-74 (LC 15), 11=-66 (LC 14)

Max Grav 8=960 (LC 6), 11=958 (LC 5) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/39, 2-3=-228/107, 3-4=-768/168,

4-5=-781/170, 5-6=-548/185, 6-7=0/39, 2-11=-284/122. 6-8=-516/189

BOT CHORD 10-11=-79/663, 8-10=0/650

WEBS 3-10=-148/204, 4-10=-102/613,

5-10=-278/230, 3-11=-773/53, 5-8=-589/28

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-3-13, Exterior(2R) 6-3-13 to 12-3-13, Interior (1) 12-3-13 to 17-8-8, Exterior(2E) 17-8-8 to 20-8-8 zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

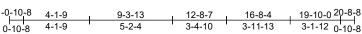


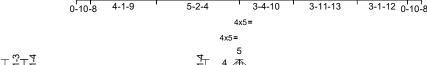
March 6,2024

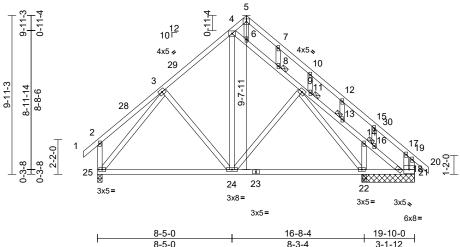


Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	B02	Common	1	1	Job Reference (optional)	164050790

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:24 ID:QwOCt908BlmgeeqJB K8WlzhJ5k-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.10	24-25	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.20	24-25	>982	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.01	21	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 160 lb	FT = 20%

LUMBER

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

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

5-3-9 oc bracing: 18-21. **JOINTS** 1 Brace at Jt(s): 8,

11, 13, 16

REACTIONS (size) 18=3-3-8, 21=3-3-8, 22=3-3-8,

25=0-3-8

Max Horiz 25=-260 (LC 12)

Max Uplift 18=-199 (LC 13), 21=-890 (LC 15),

22=-178 (LC 15), 25=-41 (LC 14) Max Grav 18=963 (LC 15), 21=270 (LC 29),

22=723 (LC 1), 25=760 (LC 21) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/38, 2-3=-163/116, 3-4=-575/181,

4-5=-150/159, 5-7=-174/145, 7-10=-214/73, 10-12=-140/35, 12-15=-177/30,

15-17=-231/112, 17-19=-58/68, 19-20=0/38,

2-25=-229/168, 19-21=-99/171,

4-6=-459/142, 6-8=-462/91, 8-9=-496/118, 9-11=-46/95, 11-13=-84/63, 13-14=-112/109,

14-16=-69/40, 16-18=-94/87

BOT CHORD 24-25=-100/466, 22-24=0/424

18-22=-37/235, 18-21=-1138/275

WEBS 5-6=-126/69, 7-8=-163/89, 10-11=-220/107,

12-13=-87/72, 15-16=-175/203,

17-21=-269/34, 14-22=-223/240,

4-24=-94/328, 3-24=-113/181, 9-24=-149/102, 3-25=-623/35, 9-22=-478/129

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-3-13, Corner(3R) 6-3-13 to 12-3-13, Exterior (2N) 12-3-13 to 17-8-8. Corner(3E) 17-8-8 to 20-8-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 890 lb uplift at ioint 21.

13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18, 22, and 25. This connection is for uplift only and does not consider lateral forces

Page: 1

- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 6,2024

NOTES

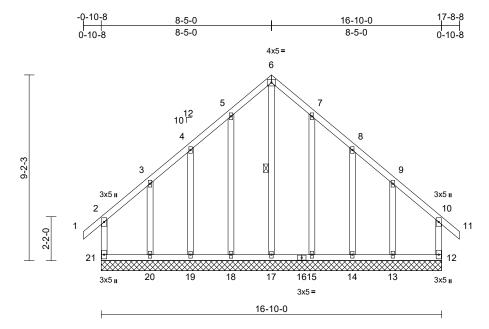
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	C01	Common Supported Gable	1	1	Job Reference (optional)	164050791

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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 127 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WERS 1 Row at midpt 6-17

REACTIONS (size) 12=16-10-0, 13=16-10-0,

14=16-10-0, 15=16-10-0,

17=16-10-0. 18=16-10-0.

19=16-10-0, 20=16-10-0,

21=16-10-0

Max Horiz 21=-241 (LC 12)

Max Uplift 12=-143 (LC 11), 13=-163 (LC 10), 14=-58 (LC 15), 15=-70 (LC 15),

18=-71 (LC 14), 19=-57 (LC 14),

20=-168 (LC 11), 21=-150 (LC 10)

12=236 (LC 24), 13=291 (LC 25), Max Grav

14=195 (LC 22), 15=264 (LC 22), 17=283 (LC 15), 18=264 (LC 21),

19=195 (LC 21), 20=295 (LC 28),

21=241 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-21=-180/195, 1-2=0/38, 2-3=-153/157, 3-4=-80/230, 4-5=-113/326, 5-6=-154/402,

6-7=-154/402, 7-8=-114/324, 8-9=-75/236,

9-10=-147/151, 10-11=0/38, 10-12=-176/161 **BOT CHORD**

20-21=-125/118, 19-20=-125/118, 18-19=-125/118, 17-18=-125/118,

15-17=-125/118, 14-15=-125/118,

13-14=-125/118, 12-13=-125/118

WEBS 6-17=-434/103, 5-18=-225/96,

4-19=-158/126, 3-20=-194/143, 7-15=-225/98, 8-14=-158/114, 9-13=-192/156

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II: Exp B: Enclosed: MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-5-0, Exterior(2N) 2-5-0 to 5-5-0, Corner(3R) 5-5-0 to 11-5-0, Exterior(2N) 11-5-0 to 14-5-0, Corner(3E) 14-5-0 to 17-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 5) desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 21, 143 lb uplift at joint 12, 71 lb uplift at joint 18, 57 Ib uplift at joint 19, 168 lb uplift at joint 20, 70 lb uplift at joint 15, 58 lb uplift at joint 14 and 163 lb uplift at joint
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

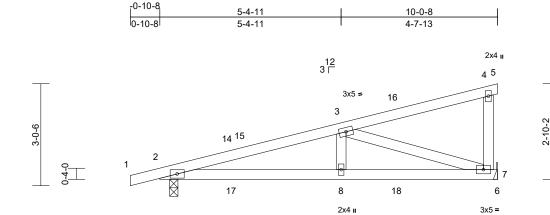
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	D01	Monopitch	11	1	Job Reference (optional)	64050792

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:25 ID:VdN9jkpYe14JZnt?2rWcBDzhJ4i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.06	8-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.06	8-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 43 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-11-11 oc

bracing.

REACTIONS (size) 2=0-3-0, 7= Mechanical

Max Horiz 2=101 (LC 13)

Max Uplift 2=-180 (LC 10), 7=-148 (LC 10)

Max Grav 2=529 (LC 21), 7=516 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/13, 2-3=-995/938, 3-4=-92/69, TOP CHORD

4-5=-6/0, 4-7=-182/93

BOT CHORD 2-8=-912/935, 7-8=-912/935, 6-7=0/0 **WEBS** 3-8=-287/198, 3-7=-937/954

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-0-8, Exterior(2E) 7-0-8 to 10-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 7
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

3x5 =



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

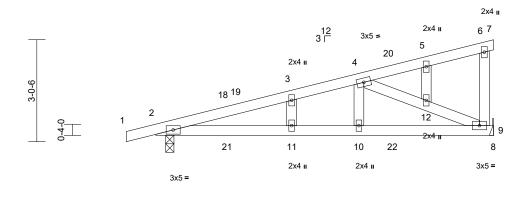
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

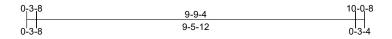


Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	D02	Monopitch	2	1	Job Reference (optional)	164050793

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:26 ID:ZnJFRgCc6s6nOiJ9wZ57UzzhJ4C-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







Scale = 1:34.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.08	11-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.09	11-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 45 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-8-12 oc purlins, except end verticals. Rigid ceiling directly applied or 6-1-9 oc

bracing

REACTIONS (size)

2=0-3-0, 9= Mechanical

Max Horiz 2=101 (LC 13)

Max Uplift 2=-180 (LC 10), 9=-148 (LC 10)

Max Grav 2=529 (LC 21), 9=516 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/13, 2-3=-896/843, 3-4=-864/849,

4-5=-59/42, 5-6=-41/52, 6-7=-6/0,

6-9=-127/56

BOT CHORD 2-11=-821/843, 10-11=-821/843,

9-10=-821/843, 8-9=0/0

4-12=-892/912, 9-12=-908/920, 5-12=-42/21,

4-10=-308/198, 3-11=-68/42

WEBS NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-0-8, Exterior(2E) 7-0-8 to 10-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 6,2024

Page: 1

2-10-2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

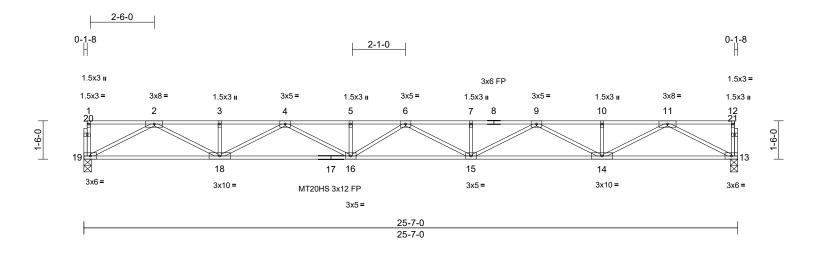
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F01	Floor	14	1	Job Reference (optional)	164050794

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:26 $ID: kw0_lcw3LxOch2qP7ECb61yyC0k-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:45.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.51	15-16	>598	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.71	15-16	>429	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.11	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 131 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.1(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.

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

REACTIONS (size) 13=0-3-8, 19=0-3-8 Max Grav 13=925 (LC 1), 19=925 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-19=-69/0, 12-13=-69/0, 1-2=-3/0,

2-3=-2815/0, 3-4=-2815/0, 4-5=-4147/0, 5-6=-4147/0, 6-7=-4153/0, 7-9=-4153/0, 9-10=-2815/0, 10-11=-2815/0, 11-12=-3/0

BOT CHORD 18-19=0/1609, 16-18=0/3648, 15-16=0/4284,

14-15=0/3646, 13-14=0/1609

WEBS 11-13=-1813/0, 2-19=-1813/0, 11-14=0/1369,

2-18=0/1369, 10-14=-163/0, 3-18=-162/0, 9-14=-943/0, 4-18=-945/0, 9-15=0/576, 4-16=0/567, 7-15=-171/0, 5-16=-150/0,

6-15=-148/0, 6-16=-162/0

NOTES

- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

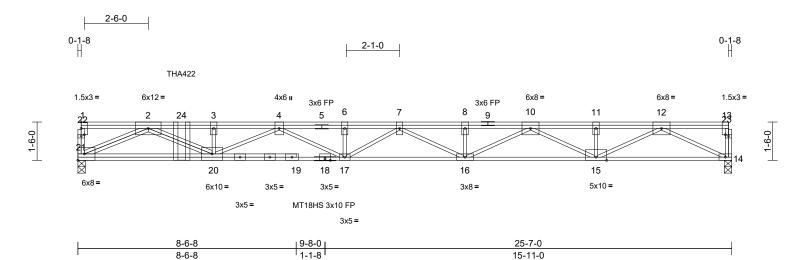


March 6,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F02	Floor Girder	1	1	Job Reference (optional)	164050795

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Mar 05 14:05:26 ID:?_VDjhKJAHokvDpP4IIV?HyyByL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:45.1

Plate Offsets (X, Y): [22:0-1-8,0-0-8], [23:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.49	16-17	>616		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	0.93	Vert(CT)	-0.69	16-17	>442	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 187 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) *Except* 1-5,9-1:2x4 SP

2400F 2.0E(flat)

2x4 SP 2400F 2.0E(flat) *Except* 21-19:2x4 **BOT CHORD**

SP No.2(flat) **WEBS** 2x4 SP No.3(flat)

2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS 14=0-3-8, 21=0-3-8 (size)

Max Grav 14=1116 (LC 1), 21=1964 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-21=0/7, 13-14=-76/0, 1-2=0/0, 2-3=-6279/0,

3-4=-6279/0, 4-6=-6509/0, 6-7=-6509/0, 7-8=-5853/0, 8-10=-5853/0, 10-11=-3696/0,

11-12=-3696/0, 12-13=-4/0 **BOT CHORD**

20-21=0/4069, 17-20=0/6400, 16-17=0/6302, 15-16=0/4922, 14-15=0/2053

12-14=-2291/0, 12-15=0/1847, 11-15=-178/0, **WEBS**

10-15=-1377/0, 10-16=0/1045, 8-16=-203/0, 6-17=-229/0, 7-16=-505/0, 2-20=0/2459, 3-20=-932/0, 4-20=-134/0, 4-17=0/123.

7-17=0/243, 2-21=-4508/0

NOTES

- All plates are MT20 plates unless otherwise indicated. 1)
- All plates are 3x6 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 18 = 11%
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 4-0-12 from the left end to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 14-21=-7, 1-13=-67 Concentrated Loads (lb) Vert: 24=-1231 (F)



March 6,2024

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

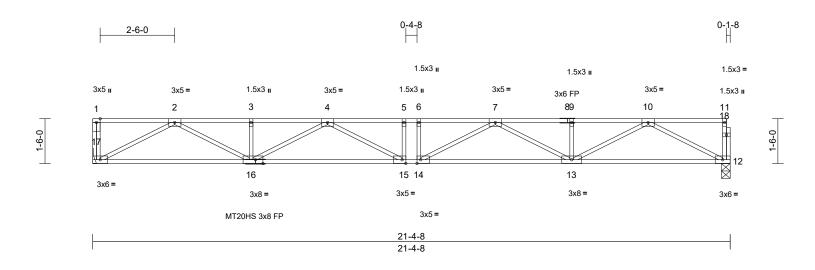
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F03	Floor	3	1	Job Reference (optional)	164050796

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:26 ID:V0ZtZzRPSrhfkV2Ta3zSptyyC04-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.6

Plate Offsets (X, Y):	[14:0-1-8,Edge],	[15:0-1-8,Edge],	[16:0-3-0,Edge]
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		i –		1	-						i	-
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.27	14-15	>936	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.37	13-14	>678	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH		, ,					Weight: 111 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 12=0-3-8, 17= Mechanical (size) Max Grav 12=770 (LC 1), 17=775 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-70/0, 11-12=-69/0, 1-2=0/0, 2-3=-2235/0, 3-4=-2235/0, 4-5=-2992/0,

5-6=-2992/0, 6-7=-2992/0, 7-9=-2235/0,

9-10=-2235/0, 10-11=-3/0

BOT CHORD 15-17=0/2780, 14-15=0/2992, 13-14=0/2780,

12-13=0/1315

WEBS 10-12=-1481/0. 2-17=-1486/0. 10-13=0/1044.

2-16=0/1043, 9-13=-163/0, 3-16=-162/0, 7-13=-618/0, 4-16=-618/0, 7-14=-80/425 4-15=-80/425, 5-15=-115/0, 6-14=-115/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

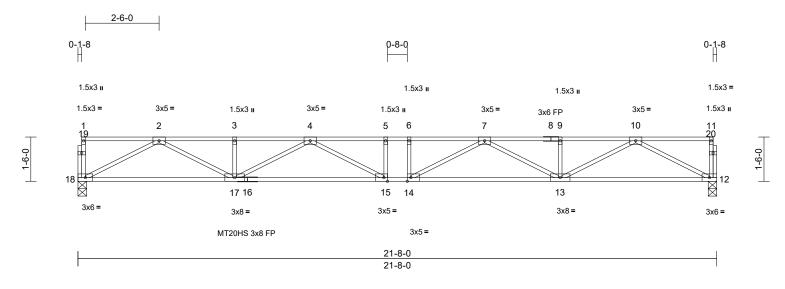


March 6,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F04	Floor	5	1	Job Reference (optional)	164050797

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Mar 05 14:05:27 ID:szMlchVXGNJxqGwRNcYdWxyyC0?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:39.1

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.29	14-15	>901		MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.39	15-17	>654	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 112 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Grav 12=781 (LC 1), 18=781 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

TOP CHORD 1-18=-69/0, 11-12=-69/0, 1-2=-3/0,

2-3=-2276/0, 3-4=-2276/0, 4-5=-3069/0, 5-6=-3069/0, 6-7=-3069/0, 7-9=-2276/0,

9-10=-2276/0, 10-11=-3/0

BOT CHORD 17-18=0/1336, 15-17=0/2840, 14-15=0/3069,

13-14=0/2840, 12-13=0/1336

WEBS 10-12=-1504/0. 2-18=-1504/0. 10-13=0/1067.

2-17=0/1067, 9-13=-162/0, 3-17=-162/0, 7-13=-640/0, 4-17=-640/0, 7-14=-71/459, 4-15=-71/459, 5-15=-136/0, 6-14=-136/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

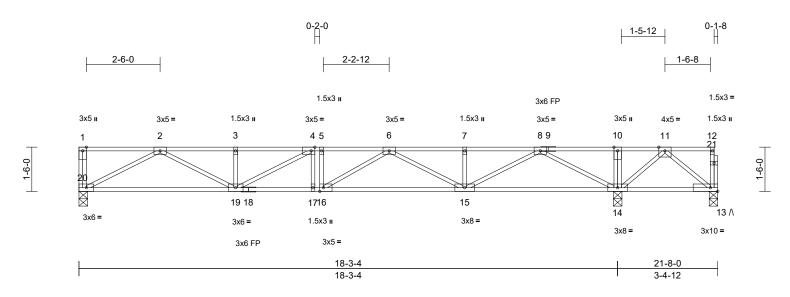


March 6,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F05	Floor	1	1	Job Reference (optional)	164050798

Run: 8.63 E Dec 13 2023 Print: 8.630 E Dec 13 2023 MiTek Industries, Inc. Wed Mar 06 07:15:11 ID:LzVQXT791MsZ3FvQQXUpdvyyC?B-3kHmgTNsGnNmR0Yq6WpCMquFQL58_iDp6sK9ITzdj2V Page: 1



Scale = 1:39.1

Plate Offsets (X, Y):	[4:0-1-8,Edge], [16:0-1-8,Edge]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.16	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.22	15-16	>977	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.05	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 117 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 13-14.

13=0/0-3-8, 14=922/0-3-8, REACTIONS (lb/size) 20=644/0-3-8

Max Uplift 13=REL

Max Grav 14=922 (LC 1), 20=660 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD 2-3=-1801/0, 3-4=-1801/0, 4-5=-2146/0,

5-6=-2146/0, 6-7=-1769/0, 7-8=-1769/0,

8-10=0/257, 10-11=0/257

19-20=0/1096, 17-19=0/2146, 16-17=0/2146, **BOT CHORD** 15-16=0/2119, 14-15=0/1042

8-14=-1253/0, 2-20=-1237/0, 8-15=0/859,

2-19=0/800, 6-15=-429/0, 4-19=-425/0,

6-16=-133/264, 11-14=-263/0

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- "\\" indicates Released bearing: allow for upward movement at joint(s) 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



March 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

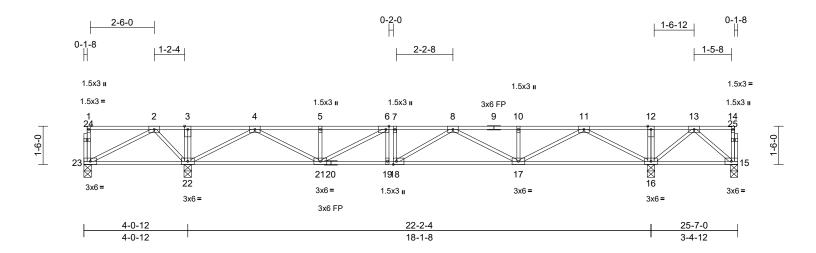
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F06	Floor	1	1	Job Reference (optional)	164050799

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:27 ID:hCqk8_Oyr7eRieafj9tzWYyyC_r-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [6:0-1-8,Edge], [18:0-1	-8,Edge]	
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.07	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.11	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 139 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 15=0-3-8, 16=0-3-8, 22=0-3-8, 23=0-3-8

15=-475 (LC 6), 23=-349 (LC 6) Max Uplift 15=-25 (LC 5), 16=1303 (LC 4), 22=1198 (LC 3), 23=27 (LC 5) Max Grav

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-71/0, 14-15=-42/0, 1-2=-3/0,

2-3=0/1092, 3-4=0/1092, 4-5=-683/0 5-6=-683/0, 6-7=-1026/0, 7-8=-1026/0, 8-10=-645/0, 10-11=-645/0, 11-12=0/1174,

12-13=0/1174, 13-14=-2/0

BOT CHORD 22-23=-709/0, 21-22=-143/79, 19-21=0/1026,

18-19=0/1026, 17-18=0/996, 16-17=-134/1,

15-16=-567/0

3-22=-123/0, 12-16=-159/0, 11-16=-1225/0, 4-22=-1196/0, 11-17=0/831, 4-21=0/798, 10-17=-170/0. 5-21=-179/0. 8-17=-400/0. 6-21=-428/0, 8-18=-132/191, 6-19=-88/73, 7-18=0/26, 2-23=0/801, 2-22=-666/0,

13-16=-859/0, 13-15=0/752

NOTES

WEBS

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.

- 3) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.
- One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



March 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

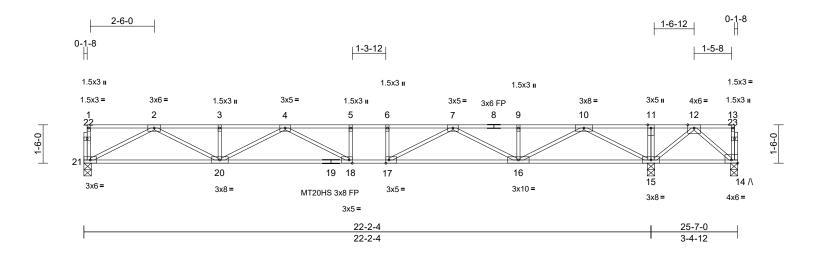
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F07	Floor	1	1	Job Reference (optional)	64050800

Run: 8 63 F. Dec 13 2023 Print: 8 630 F. Dec 13 2023 MiTek Industries. Inc. Wed Mar 06 07:16:43 $ID:I5EPI6aMJkWJ?xEX5ofUdiyyC_c-qdPwBGWBMM5a5J9i3Y_0dRE33qmMHk1VVqMaWazdj12$

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y):	Plate Offsets (X, Y): [14:Eage,0-1-8], [17:0-1-8,Eage], [18:0-1-8,Eage]											
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.32	17-18	>830	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.43	18-20	>611	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 133 lb	FT = 20%F, 11%E

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TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WFBS OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 14-15.

REACTIONS (lb/size) 14=0/0-3-8, 15=1062/0-3-8,

21=788/0-3-8

Max Uplift 14=REL

Max Grav 15=1062 (LC 1), 21=800 (LC 3)

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

TOP CHORD 2-3=-2347/0, 3-4=-2347/0, 4-5=-3208/0,

5-6=-3208/0, 6-7=-3208/0, 7-9=-2305/0,

9-10=-2305/0, 10-11=0/256, 11-12=0/256 20-21=0/1372, 18-20=0/2946, 17-18=0/3208,

BOT CHORD 16-17=0/2923, 15-16=0/1313

WFBS 10-15=-1552/0, 2-21=-1545/0, 10-16=0/1154,

2-20=0/1107, 7-16=-727/0, 4-20=-680/0, 7-17=0/584, 4-18=-92/489, 12-15=-264/0

NOTES

N/A

- 1) Unbalanced floor live loads have been considered for this design.
- 3) All plates are MT20 plates unless otherwise indicated. All plates are 1.5x3 MT20 unless otherwise indicated.
- "\" indicates Released bearing: allow for upward movement at joint(s) 14.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



March 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

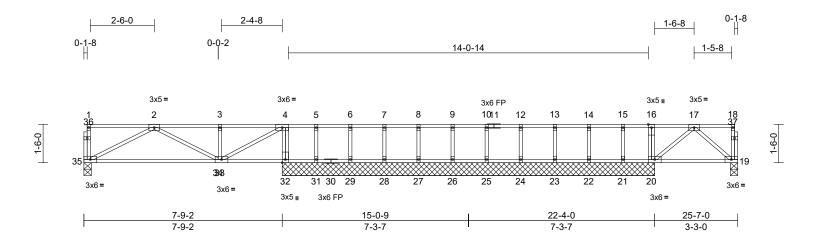
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F08	Floor	1	1	Job Reference (optional)	164050801

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:28 ID:Px0oyr7DUsJnX0INnSTHUPyyBzu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.01	34-35	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.05	34-35	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	32	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 129 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 34-35,33-34.

REACTIONS (size) 19=0-3-8, 20=14-6-14, 21=14-6-14, 22=14-6-14, 23=14-6-14,

24=14-6-14, 25=14-6-14, 26=14-6-14, 27=14-6-14, 28=14-6-14, 29=14-6-14,

31=14-6-14, 32=14-6-14, 35=0-3-8 Max Grav 19=103 (LC 4), 20=244 (LC 1), 21=215 (LC 3), 22=237 (LC 7), 23=230 (LC 3), 24=232 (LC 7), 25=231 (LC 3), 26=231 (LC 7),

27=232 (LC 3), 28=231 (LC 7), 29=238 (LC 3), 31=234 (LC 7), 32=416 (LC 1), 35=268 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-35=-68/0, 18-19=-40/0, 1-2=-3/0, 2-3=-342/0, 3-4=-342/0, 4-5=0/47, 5-6=0/47, 6-7=0/47, 7-8=0/47, 8-9=0/47, 9-10=0/47, 10-12=0/47, 12-13=0/47, 13-14=0/47, 14-15=0/47, 15-16=0/47, 16-17=0/47,

17-18=-2/0

BOT CHORD 34-35=0/357, 33-34=0/342, 32-33=-47/0, 31-32=-47/0, 29-31=-47/0, 28-29=-47/0, 27-28=-47/0, 26-27=-47/0, 25-26=-47/0,

24-25=-47/0, 23-24=-47/0, 22-23=-47/0, 21-22=-47/0, 20-21=-47/0, 19-20=-11/65 **WEBS** 4-32=-409/0, 16-20=-143/0, 5-31=-225/0,

6-29=-229/0, 7-28=-222/0, 8-27=-223/0, 9-26=-222/0, 10-25=-222/0, 12-24=-222/0, 13-23=-222/0, 14-22=-226/0, 15-21=-216/0, 2-35=-399/0, 2-34=-70/59, 3-33=-181/0, 4-33=0/440, 17-19=-84/14, 17-20=-123/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 19-35=-7, 1-4=-67, 4-16=-167, 16-18=-67



March 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

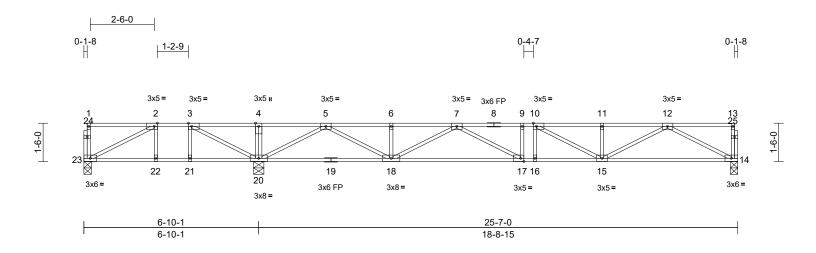
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F09	Floor	1	1	Job Reference (optional)	64050802

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:29 ID:LbgzxLM8?ij5Jxi1PyJkmPyyBzb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.15	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.22	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 135 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS (size) 14=0-3-8, 20=0-4-14, 23=0-3-8

Max Uplift 23=-97 (LC 4)

Max Grav 14=627 (LC 7), 20=1159 (LC 8),

23=193 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-98/0, 13-14=-69/0, 1-2=-4/0, 2-3=-193/314, 3-4=0/898, 4-5=0/898

5-6=-1389/0, 6-7=-1389/0, 7-9=-1985/0, 9-10=-1985/0, 10-11=-1695/0,

11-12=-1695/0, 12-13=-3/0

BOT CHORD 22-23=-314/193, 21-22=-314/193,

20-21=-314/193, 18-20=0/543,

17-18=0/1858, 16-17=0/1985, 15-16=0/1985,

14-15=0/1041

WEBS 4-20=-162/0, 3-20=-780/0, 2-23=-212/355, 2-22=-110/0, 3-21=0/138, 5-20=-1401/0,

12-14=-1171/0, 5-18=0/1000, 12-15=0/742,

6-18=-166/0, 11-15=-181/0, 7-18=-568/0, 10-15=-415/5, 7-17=-73/323, 9-17=-59/6,

10-16=-87/73

NOTES

- Unbalanced floor live loads have been considered for
- All plates are 1.5x3 MT20 unless otherwise indicated.

- 3) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

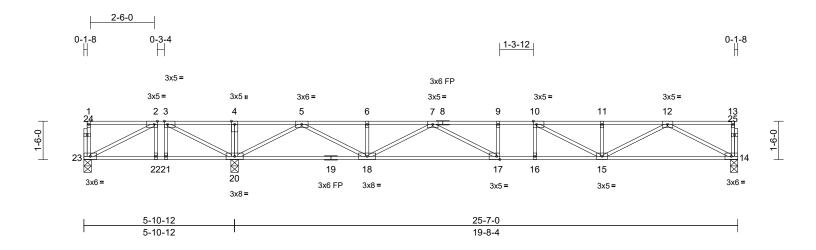


March 6,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F11	Floor	5	1	Job Reference (optional)	164050803

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:29 ID:eybdPkSXMrb5e?kNJwxNYuyyBzU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.15	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.22	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 135 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 14=0-3-8, 20=0-3-8, 23=0-3-8

Max Uplift 23=-306 (LC 4)

14=608 (LC 7), 20=1406 (LC 1), Max Grav

23=99 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-89/0, 13-14=-70/0, 1-2=-4/0, 2-3=-26/694, 3-4=0/1536, 4-5=0/1536,

5-6=-923/0, 6-7=-923/0, 7-9=-1858/0, 9-10=-1858/0, 10-11=-1627/0,

11-12=-1627/0, 12-13=-3/0

BOT CHORD 22-23=-694/26, 21-22=-694/26,

20-21=-694/26, 18-20=-160/0, 17-18=0/1557, 16-17=0/1858, 15-16=0/1858, 14-15=0/1004

WFBS 4-20=-171/0, 3-20=-1110/0, 2-23=-25/781, 2-22=-252/0, 3-21=0/272, 5-20=-1568/0, 12-14=-1130/0, 5-18=0/1161, 12-15=0/707,

6-18=-168/0, 11-15=-199/0, 7-18=-731/0, 10-15=-396/11, 7-17=0/461, 9-17=-133/0, 10-16=-70/56

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



March 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

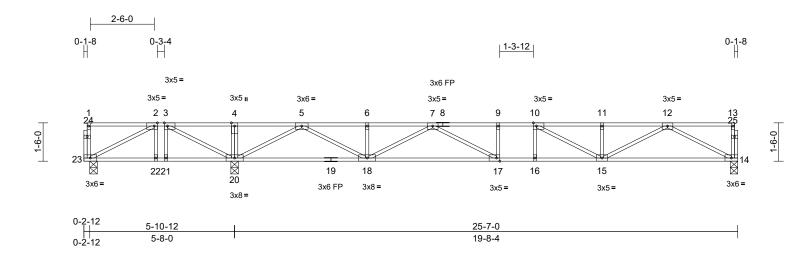
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F12	Floor	5	1	Job Reference (optional)	164050804

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:29 ID:T5yufnWlxhLFMwBXfB2nn9yyBzO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.15	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.22	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 135 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 14=0-3-8, 20=0-3-8, 23=0-3-8

Max Uplift 23=-306 (LC 4)

14=608 (LC 7), 20=1406 (LC 1), Max Grav

23=99 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-23=-89/0, 13-14=-70/0, 1-2=-4/0,

2-3=-26/694, 3-4=0/1536, 4-5=0/1536, 5-6=-923/0, 6-7=-923/0, 7-9=-1858/0,

9-10=-1858/0, 10-11=-1627/0, 11-12=-1627/0, 12-13=-3/0

BOT CHORD 22-23=-694/26, 21-22=-694/26,

20-21=-694/26, 18-20=-160/0, 17-18=0/1557, 16-17=0/1858, 15-16=0/1858, 14-15=0/1004

4-20=-171/0, 3-20=-1110/0, 2-23=-25/781, 2-22=-252/0, 3-21=0/272, 5-20=-1568/0,

12-14=-1130/0, 5-18=0/1161, 12-15=0/707, 6-18=-168/0, 11-15=-199/0, 7-18=-731/0, 10-15=-396/11, 7-17=0/461, 9-17=-133/0,

10-16=-70/56

NOTES

WFBS

- Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



March 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

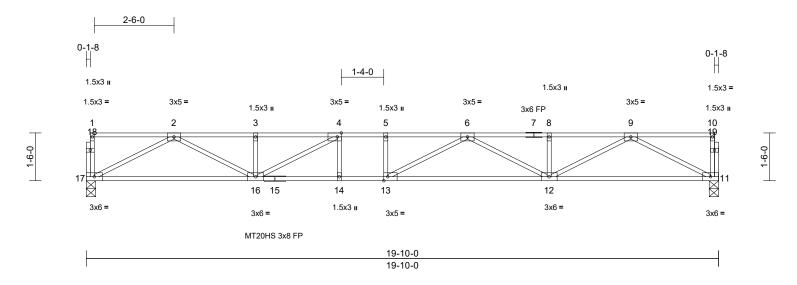
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F13	Floor	3	1	Job Reference (optional)	164050805

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Mar 05 14:05:30 ID:MtBPV9Zo?wshrYVIu07jy?yyBzK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.1

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.26	12-13	>907	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.37	12-13	>631	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 102 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 11=0-3-8, 17=0-3-8 (size)

Max Grav 11=714 (LC 1), 17=714 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-17=-69/0, 10-11=-68/0, 1-2=-3/0, 2-3=-2013/0, 3-4=-2013/0, 4-5=-2518/0,

5-6=-2518/0, 6-8=-2025/0, 8-9=-2025/0,

9-10=-3/0

BOT CHORD 16-17=0/1206, 14-16=0/2518, 13-14=0/2518,

12-13=0/2464, 11-12=0/1210

9-11=-1363/0, 2-17=-1357/0, 9-12=0/924. WEBS 2-16=0/916, 8-12=-155/0, 3-16=-187/16,

6-12=-498/0, 4-16=-684/0, 6-13=-166/325,

4-14=-39/113, 5-13=-95/11

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

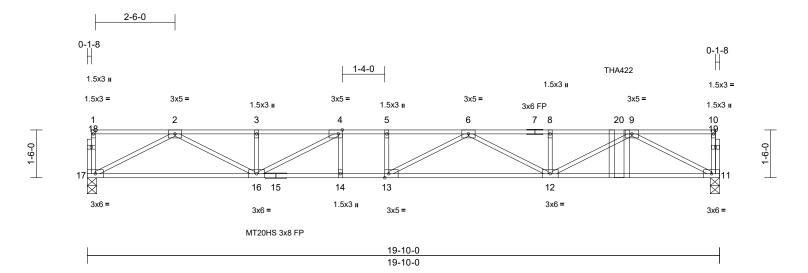


March 6,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F14	Floor Girder	1	1	Job Reference (optional)	164050806

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Scale = 1:36.1

Plate Offsets	(X, Y):	[4:0-1-8,Edge],	[13:0-1-8,Edge]
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Loading	(psf)	Spacing	1-4-0	csi		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
-	40.0	Plate Grip DOL		TC	0.73	Vert(LL)	-0.26	12-13	>889		MT20HS	187/143
TCLL			1.00	_		\ /					-	
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.38	12-13	>622	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 102 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS 11=0-3-8, 17=0-3-8 (size)

Max Grav 11=716 (LC 1), 17=714 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-69/0, 10-11=-68/0, 1-2=-3/0, 2-3=-2014/0, 3-4=-2014/0, 4-5=-2520/0,

5-6=-2520/0, 6-8=-2029/0, 8-9=-2029/0,

9-10=-3/0

BOT CHORD 16-17=0/1206, 14-16=0/2520, 13-14=0/2520,

12-13=0/2466, 11-12=0/1214

9-11=-1367/0, 2-17=-1358/0, 9-12=0/924. WEBS 2-16=0/917, 8-12=-156/0, 3-16=-186/16,

6-12=-497/0, 4-16=-694/0, 6-13=-175/316,

4-14=-37/116, 5-13=-92/13

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

- 6) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 16-8-4 from the left end to connect truss (es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 11-17=-7, 1-10=-67

Concentrated Loads (lb)

Vert: 20=-2 (F)



March 6,2024

Page: 1

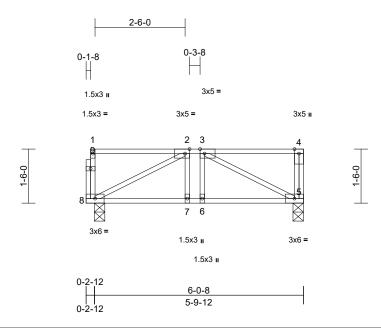
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Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F15	Floor	1	1	Job Reference (optional)	164050807

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Mar 05 14:05:30 ID:3ooBbah4e?6G24GDU7I3M6yyBzA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.01	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.02	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 37 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. REACTIONS

(size) 5=0-3-8, 8=0-3-8

Max Grav 5=212 (LC 1), 8=208 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-75/0, 4-5=-76/0, 1-2=-3/0, 2-3=-258/0,

3-4=0/0

BOT CHORD 7-8=0/258, 6-7=0/258, 5-6=0/258 WEBS 3-5=-290/0, 2-8=-287/0, 2-7=-58/86,

3-6=-62/82

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



March 6,2024

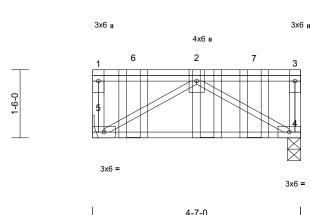


Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F17	Floor Girder	1	1	Job Reference (optional)	164050808

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Mar 05 14:05:31 ID:I3uRdHC2WCX9ih2UVfa8bAyyByV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



THA422



THA422

Page: 1

Scale = 1:25.4

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.04	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 34 lb	FT = 20%F, 11%E

4-7-0

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=0-3-8, 5= Mechanical

Max Grav 4=1233 (LC 1), 5=1275 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-5=-429/0, 3-4=-387/0, 1-2=0/0, 2-3=0/0

BOT CHORD 4-5=0/1372

WEBS 2-4=-1605/0, 2-5=-1605/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-7-8 oc max. starting at 0-10-12 from the left end to 3-6-12 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 4-5=-7, 1-3=-67 Concentrated Loads (lb)

Vert: 2=-730 (B), 6=-730 (B), 7=-730 (B)

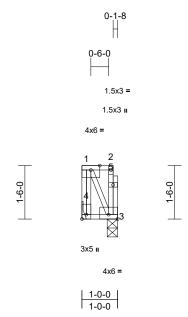


March 6,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	F18	Floor	1	1	Job Reference (optional)	164050809

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Mar 05 14:05:31 ID:RStLKPprRm9RYz8sENx6y0yyBwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.3

Plate Offsets (X, Y):	[3:Edge,0-1-8],	, [4:Edge,0-1-8]
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Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	тс	0.02	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	0.00	Vert(CT)	0.00	4	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3=0-3-8, 4= Mechanical Max Grav 3=24 (LC 1), 4=27 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-25/0, 2-3=-23/0, 1-2=-1/0

BOT CHORD 3-4=0/0 WFBS 1-3=0/2

NOTES

- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



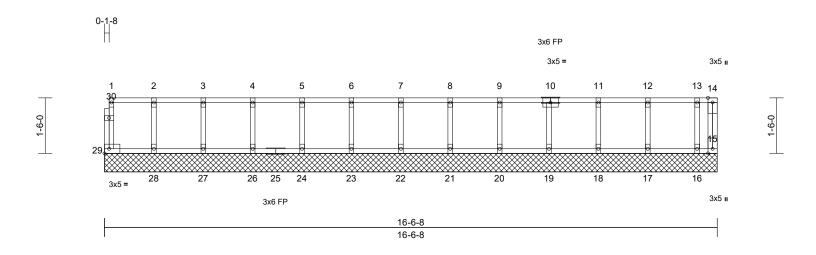
March 6,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
24030125	FW16	Floor Supported Gable	1	1	Job Reference (optional)	164050810

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:31 ID:ca1VeAxlr8YtMgUzNBehuKyyBwG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 78 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

15=16-6-8, 16=16-6-8, 17=16-6-8, 18=16-6-8, 19=16-6-8, 20=16-6-8, 21=16-6-8, 22=16-6-8, 23=16-6-8, 24=16-6-8, 26=16-6-8, 27=16-6-8,

28=16-6-8, 29=16-6-8 15=16 (LC 1), 16=60 (LC 1), Max Grav

17=103 (LC 1), 18=95 (LC 1), 19=98 (LC 1), 20=100 (LC 1), 21=97 (LC 1), 22=98 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=99 (LC 1),

29=34 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-29=-32/0, 14-15=-7/0, 1-2=-3/0, 2-3=-3/0, 3-4=-3/0, 4-5=-3/0, 5-6=-3/0, 6-7=-3/0, 7-8=-3/0, 8-9=-3/0, 9-11=-5/0, 11-12=-5/0,

12-13=-5/0, 13-14=-5/0

BOT CHORD 28-29=0/3, 27-28=0/3, 26-27=0/3, 24-26=0/3, 23-24=0/3, 22-23=0/3, 21-22=0/3, 20-21=0/3,

19-20=0/3, 18-19=0/5, 17-18=0/5, 16-17=0/5,

15-16=0/5

WEBS 2-28=-89/0, 3-27=-89/0, 4-26=-89/0, 5-24=-89/0, 6-23=-89/0, 7-22=-89/0,

8-21=-88/0 9-20=-91/0 10-19=-89/0 11-18=-86/0, 12-17=-93/0, 13-16=-63/0

NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



March 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

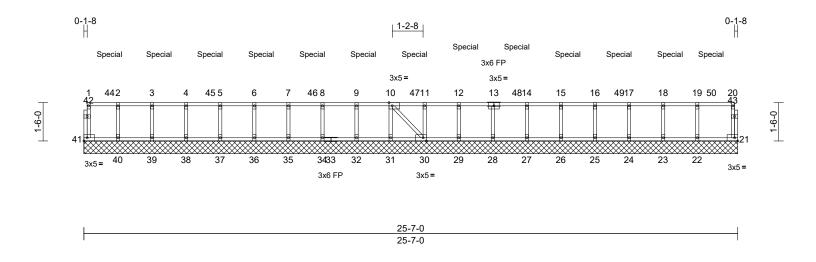
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



	Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC	
١	24030125	FW25	Floor Supported Gable	1	1	Job Reference (optional)	164050811

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Tue Mar 05 14:05:31 ID:vwy86Z18CIRtikWJH9GKgpyyBw9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Plate Offsets (X, Y):	Plate Offsets (X, Y): [10:0-1-8,Edge], [30:0-1-8,Edge]											
Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999	1	
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	21	n/a	n/a	1	
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 119 lb	FT = 20%F, 11%E
LUMBER			FORCES	(lb) - Maximum C	ompressi	on/Maximum		7) This	truss is	desig	ned in accordance	e with the 2018

	TOP CHORD	2x4 SP No.2(flat)		Tension		International Residential Code sections R502.11.1 and
	BOT CHORD	2x4 SP No.2(flat)	TOP CHORD	1-41=-102/26, 20-21=-156/42, 1-2=-5/1,		R802.10.2 and referenced standard ANSI/TPI 1.
	WEBS	2x4 SP No.3(flat)		2-3=-5/1, 3-4=-5/1, 4-5=-5/1, 5-6=-5/1,	8)	Recommend 2x6 strongbacks, on edge, spaced at
	OTHERS	2x4 SP No.3(flat)		6-7=-5/1, 7-8=-5/1, 8-9=-5/1, 9-10=-5/1,		10-00-00 oc and fastened to each truss with 3-10d
	BRACING	- ()		10-11=-1/1, 11-12=-1/1, 12-14=-7/2,		(0.131" X 3") nails. Strongbacks to be attached to walls
	TOP CHORD	Structural wood sheathing directly applied or		14-15=-7/2, 15-16=-7/2, 16-17=-7/2,		at their outer ends or restrained by other means.
	TOT OTTOTAL	6-0-0 oc purlins, except end verticals.		17-18=-7/2, 18-19=-7/2, 19-20=-7/2	9)	Hanger(s) or other connection device(s) shall be
	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:	BOT CHORD	40-41=-1/5, 39-40=-1/5, 38-39=-1/5,		provided sufficient to support concentrated load(s) 504
				37-38=-1/5, 36-37=-1/5, 35-36=-1/5,		lb down and 157 lb up at 1-0-4, 503 lb down and 158 lb
		6-0-0 oc bracing: 29-30,28-29.		34-35=-1/5, 32-34=-1/5, 31-32=-1/5,		up at 2-11-8, 503 lb down and 158 lb up at 4-11-8, 503
	REACTIONS	<u> </u>		30-31=-1/5, 29-30=-1/1, 28-29=-1/1,		lb down and 158 lb up at 6-11-8, 503 lb down and 158
	REACTIONS	24=25-7-0, 25=25-7-0, 26=25-7-0, 24=25-7-0, 25=25-7-0, 26=25-7-0,		27-28=-2/7, 26-27=-2/7, 25-26=-2/7,		lb up at 8-11-8, 503 lb down and 158 lb up at 10-11-8,
		27=25-7-0, 28=25-7-0, 20=25-7-0, 27=25-7-0, 28=25-7-0, 2		24-25=-2/7, 23-24=-2/7, 22-23=-2/7,		503 lb down and 158 lb up at 12-11-8, 503 lb down and
		30=25-7-0, 31=25-7-0, 32=25-7-0, 30=25-7-0, 31=25-7-0, 32=25-7-0,		21-22=-2/7		158 lb up at 14-11-8, 503 lb down and 158 lb up at
		34=25-7-0, 35=25-7-0, 32=25-7-0, 34=25-7-0, 35=25-7-0,	WEBS	2-40=-484/134, 3-39=-423/116,		16-11-8, 503 lb down and 158 lb up at 18-11-8, 503 lb
		37=25-7-0, 38=25-7-0, 30=25-7-0, 37=25-7-0, 38=25-7-0, 38=25-7-0, 38=25-7-0, 38=25-7-0,		4-38=-215/43, 5-37=-451/125,		down and 158 lb up at 20-11-8, and 503 lb down and
		40=25-7-0, 41=25-7-0, 39=25-7-0,		6-36=-418/115, 7-35=-216/43,		158 lb up at 22-11-8, and 504 lb down and 157 lb up at
		,		8-34=-451/125, 9-32=-418/115,		24-6-12 on top chord. The design/selection of such
		Max Uplift 21=-39 (LC 8), 22=-118 (LC 8),		10-31=-212/43, 11-30=-450/125,		connection device(s) is the responsibility of others.
		23=-96 (LC 8), 24=-123 (LC 8),		12-29=-421/115, 13-28=-219/44,	10)	In the LOAD CASE(S) section, loads applied to the face
		25=-37 (LC 8), 26=-110 (LC 8),		14-27=-444/123, 15-26=-421/116,		of the truss are noted as front (F) or back (B).
		27=-118 (LC 8), 28=-39 (LC 8),		16-25=-213/42, 17-24=-463/129,	LO	AD CASE(S) Standard
		29=-110 (LC 8), 30=-120 (LC 8),		18-23=-370/101, 19-22=-459/124, 10-30=-6/1		AD CASE(S) Standard
		31=-37 (LC 8), 32=-109 (LC 8),	NOTES			WATH CARO
		34=-120 (LC 8), 35=-38 (LC 8),		ed floor live loads have been considered for		100000000000000000000000000000000000000
		36=-109 (LC 8), 37=-120 (LC 8),	this design			O SEES SON
		38=-38 (LC 8), 39=-111 (LC 8),		are 1.5x3 MT20 unless otherwise indicated.		UTAN JUNEAN
		40=-128 (LC 8), 41=-24 (LC 8)	, ,	virgo continuous bettem short bearing		E ST

Gable requires continuous bottom chord bearing.

One H2.5A Simpson Strong-Tie connectors

Gable studs spaced at 1-4-0 oc.

Truss to be fully sheathed from one face or securely

braced against lateral movement (i.e. diagonal web).

recommended to connect truss to bearing walls due to

UPLIFT at jt(s) 41, 21, 40, 39, 38, 37, 36, 35, 34, 32, 31,

30, 29, 28, 27, 26, 25, 24, 23, and 22. This connection is for uplift only and does not consider lateral forces.

Continued on page 2

Max Grav

21=160 (LC 3), 22=469 (LC 3),

23=378 (LC 3), 24=472 (LC 3),

25=222 (LC 6), 26=430 (LC 3),

27=453 (LC 3), 28=228 (LC 6),

29=430 (LC 3), 30=463 (LC 3),

31=221 (LC 6), 32=427 (LC 3),

34=460 (LC 3), 35=225 (LC 6), 36=427 (LC 3), 37=460 (LC 3),

38=224 (LC 6), 39=431 (LC 3),

40=493 (LC 3), 41=105 (LC 6)

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MIT-473 rev. 172/2023 BEFORE USE.

Design valid for use only with MITE&® 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/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Timmin'

March 6,2024

Job	Truss	Truss Type	Qty	Ply	DRB - 62 FaNC		
24030125	FW25	Floor Supported Gable	1	1	Job Reference (optional)	I64050811	

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Mar 05 14:05:31 ID: vwy86Z18CIRtikWJH9GKgpyyBw9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 2

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 21-41=-7, 1-20=-67 Concentrated Loads (lb)

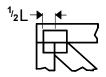
Vert: 3=-186 (B), 6=-186 (B), 9=-186 (B), 12=-186 (B), 15=-186 (B), 18=-186 (B), 44=-187 (B), 45=-186 (B), 46=-186 (B), 47=-186 (B), 48=-186 (B), 49=-186 (B), 50=-187 (B)



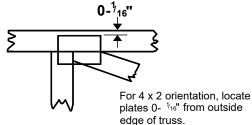
818 Soundside Road Edenton, NC 27932

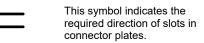
Symbols

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.





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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING



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

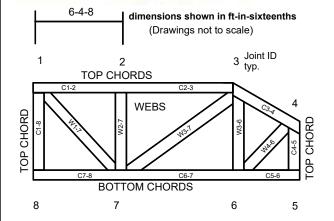
Industry Standards:

ANSI/TPI1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety In

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses. **Numbering System**



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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®



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023



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.
- 5. Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- 8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 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.
- 11. 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.
- 13. 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.
- 15. 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.