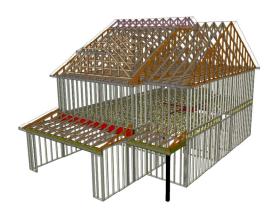


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

Builder: DRB HOMES
Model: 75 FaNC
MALBEC 4



# 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:
-------------	-------

2/26/2024

Designer:

ND Project Number: 24020109
Sheet Number: NTS

DRB HOMES NC LLC

75 FARM AT NEILLS CREEK MALBEC 4 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

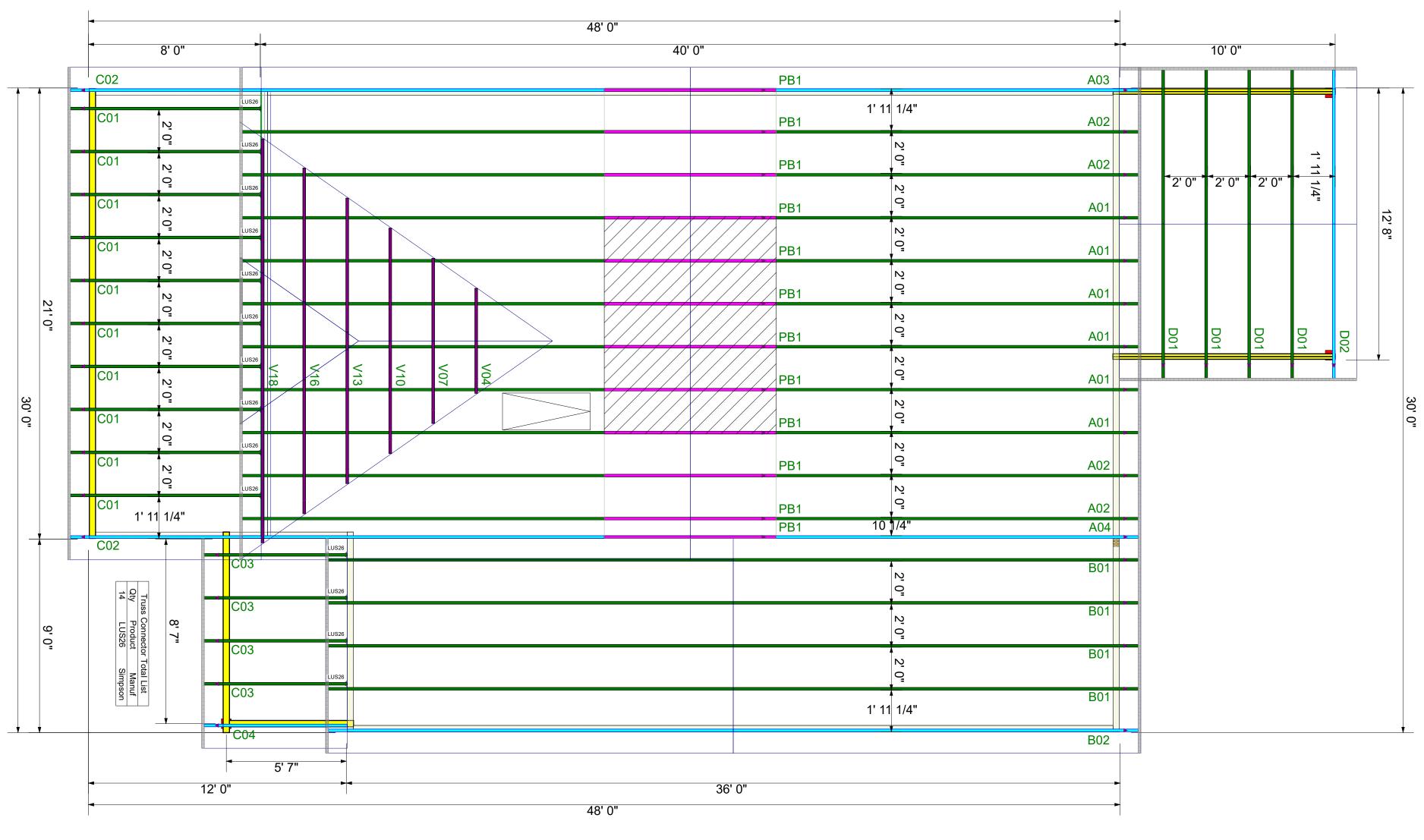
00/00/00	00/00/00	00/00/00	00/00/00	00/00/00	Revisions
Name	Name	Name	Name	Name	sions

TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS

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

REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS

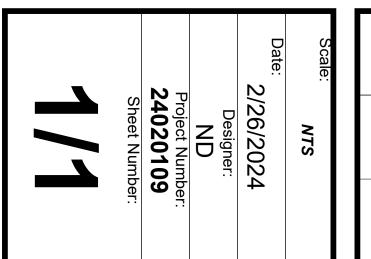
General Notes:



\*\* 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.



DRB HOMES NC LLC

75 FARM AT NEILLS CREEK MALBEC 4

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

Name	00/00/00
Name	00/00/00
sions	Revisions



#### **Trenco**

818 Soundside Rd Edenton, NC 27932

Re: 24020109 DRB - 75 FaNC

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I63854978 thru I63855012

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

North Carolina COA: C-0844



February 27,2024

Fox, Steve

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

Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	A01	Piggyback Base	6	1	Job Reference (optional)	163854978

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:52 ID:Gdxxs?aHleSaFuA1U3?nxAzypHf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

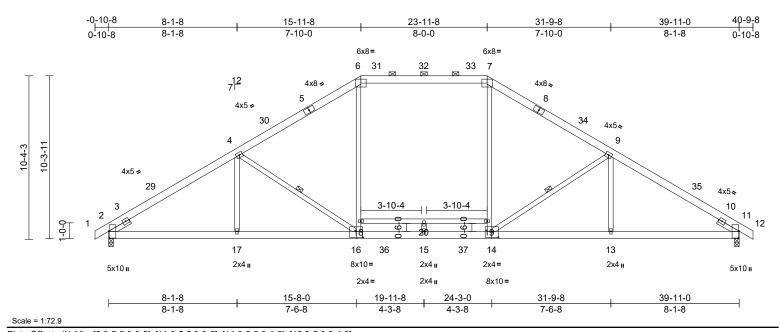


Plate Offsets (X, Y): [2:0-5-2,0-0-6], [11:0-5-2,0-0-6], [14:0-5-0,0-4-8], [16:0-5-0,0-4-8]

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	0.77	Vert(LL)	-0.42	16-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.51	16-17	>948	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.08	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 290 lb	FT = 20%

#### LUMBER

TOP CHORD 2x6 SP No 2

**BOT CHORD** 2x6 SP 2400F 2.0E \*Except\* 16-14:2x6 SP

No.2 **WEBS** 2x4 SP No.3

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

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-10 oc purlins, except

2-0-0 oc purlins (4-1-5 max.): 6-7. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing.

**WEBS** 1 Row at midpt 4-16, 9-14 REACTIONS 2=0-3-8 11=0-3-8 (size)

Max Horiz 2=231 (LC 13)

Max Uplift 2=-72 (LC 14), 11=-72 (LC 15) Max Grav 2=1877 (LC 39), 11=1877 (LC 39)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/26, 2-4=-2843/103, 4-6=-2371/57, 6-7=-1872/105, 7-9=-2371/57,

9-11=-2843/103, 11-12=0/26

**BOT CHORD** 2-17=-190/2361, 15-17=-125/2361, 13-15=0/2361, 11-13=-49/2361 WEBS

4-17=-47/215, 4-16=-740/324, 16-18=0/646, 6-18=0/647, 14-19=0/646, 7-19=0/647, 9-14=-740/324, 9-13=-47/215, 18-20=0/106,

19-20=0/106, 15-20=0/22

#### **NOTES**

Unbalanced roof live loads have been considered for 1) 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) -0-10-8 to 3-1-6, Interior (1) 3-1-6 to 10-3-12, Exterior(2R) 10-3-12 to 29-7-4, Interior (1) 29-7-4 to 36-9-10, Exterior(2E) 36-9-10 to 40-9-8 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
- 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
- 200.0lb AC unit load placed on the bottom chord, 19-11-8 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- 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.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces
- 11) 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.

12) 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



February 27,2024



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

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 - 75 FaNC	
24020109	A02	Piggyback Base	4	1	Job Reference (optional)	163854979

Run: 8.63 E May 25 2023 Print: 8.630 E May 25 2023 MiTek Industries. Inc. Tue Feb 27 11:33:04 ID:RYhNtCKAhhGnhQvy756JSEzypGh-nGFBT dOJXYyzxHjNv3c5rW5GLKRw DCsz6EmKzgyCj Page: 1

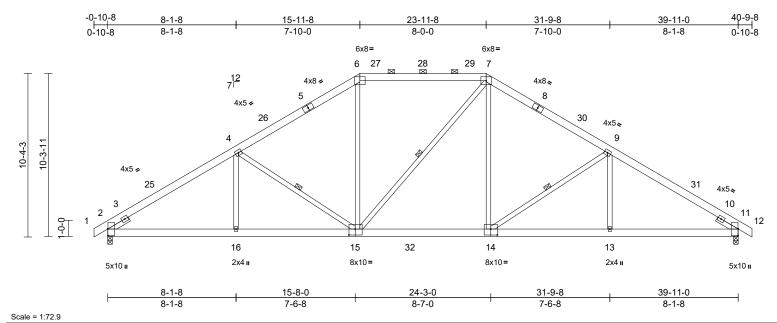


Plate Offsets (X, Y): [2:0-5-2,0-0-2], [11:0-5-2,0-0-2], [14:0-5-0,0-4-8], [15:0-4-12,0-4-8]

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	0.68	Vert(LL)	-0.15	14-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.26	14-15	>999	180	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.10	11	n/a	n/a	1	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 295 lb	FT = 20%

#### LUMBER

BRACING

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

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

TOP CHORD Structural wood sheathing directly applied or

3-7-13 oc purlins, except

2-0-0 oc purlins (4-4-9 max.): 6-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**WEBS** 4-15, 9-14, 7-15 1 Row at midpt REACTIONS (lb/size) 2=1649/0-3-8, 11=1649/0-3-8

Max Horiz 2=-231 (LC 12)

Max Uplift 2=-172 (LC 14), 11=-172 (LC 15)

Max Grav 2=1878 (LC 47), 11=1885 (LC 49)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/26, 2-3=-1638/0, 3-25=-2806/226,

4-25=-2645/257, 4-26=-2292/221, 5-26=-2139/234, 5-6=-2124/255,

6-27=-1827/276, 27-28=-1827/276, 28-29=-1827/276, 7-29=-1827/276,

7-8=-2136/255, 8-30=-2151/234, 9-30=-2304/221, 9-31=-2657/257

10-31=-2818/227, 10-11=-1374/0, 11-12=0/26

BOT CHORD 2-16=-255/2450, 15-16=-255/2450, 15-32=0/1837, 14-32=0/1837,

13-14=-100/2348, 11-13=-100/2348

WEBS 4-16=0/249 4-15=-732/228 6-15=-12/732

7-14=-30/786, 9-14=-733/229, 9-13=0/251,

7-15=-230/233

#### **NOTES**

1) 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) -0-10-8 to 3-1-6, Interior (1) 3-1-6 to 10-3-12, Exterior(2R) 10-3-12 to 29-7-4, Interior (1) 29-7-4 to 36-9-10, Exterior(2E) 36-9-10 to 40-9-8 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
- 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
- Provide adequate drainage to prevent water ponding
- 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 RT4 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. 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.
- 11) 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



February 27,2024



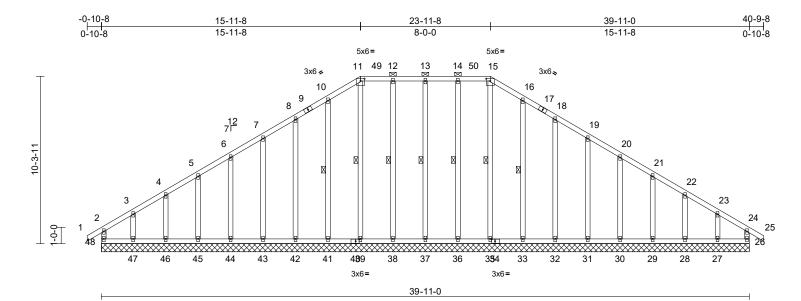
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overal 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 - 75 FaNC	
24020109	A03	Piggyback Base Supported Gable	1	1	Job Reference (optional)	163854980

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:55 ID:hZGCK5eUZhY5oQuxeYaQVjzypGH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:71

LUMBER

						-	-				ı	-	
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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999			
TODI `	40.0	D 04 I	VEO	LWD	0.00	11(OT)	0.04	00	1-	1-	1		

TCDL 10.0 Rep Stress Inci 0.20 | Horz(CT) 0.01 n/a n/a **BCLL** 0.0 IRC2018/TPI2014 Matrix-MR Code BCDL 10.0 Weight: 310 lb FT = 20%

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 **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, and 2-0-0 oc purlins (6-0-0 max.): 11-15. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

Plate Offsets (X, Y): [11:0-3-0,0-1-12], [15:0-3-0,0-1-12], [34:0-2-8,0-1-8], [40:0-2-8,0-1-8]

**WEBS** 1 Row at midpt 13-37, 12-38, 11-39, 10-41, 14-36, 15-35, 16-33

26=39-11-0, 27=39-11-0, REACTIONS (size) 28=39-11-0, 29=39-11-0, 30=39-11-0, 31=39-11-0, 32=39-11-0, 33=39-11-0, 35=39-11-0, 36=39-11-0, 37=39-11-0, 38=39-11-0, 39=39-11-0, 41=39-11-0, 42=39-11-0, 43=39-11-0, 44=39-11-0, 45=39-11-0, 46=39-11-0, 47=39-11-0, 48=39-11-0

Max Horiz 48=-249 (LC 12) Max Uplift 26=-58 (LC 11), 27=-112 (LC 15), 28=-34 (LC 15), 29=-52 (LC 15), 30=-48 (LC 15), 31=-48 (LC 15), 32=-51 (LC 15), 33=-48 (LC 15), 36=-27 (LC 11), 37=-26 (LC 10), 38=-25 (LC 11), 41=-48 (LC 14), 42=-51 (LC 14), 43=-49 (LC 14), 44=-48 (LC 14), 45=-53 (LC 14), 46=-31 (LC 14), 47=-128 (LC 14),

48=-110 (LC 10)

Max Grav 26=163 (LC 47), 27=193 (LC 25), 28=159 (LC 39), 29=163 (LC 25), 30=186 (LC 43), 31=219 (LC 43), 32=214 (LC 43), 33=227 (LC 43), 35=162 (LC 51), 36=225 (LC 38), 37=212 (LC 38), 38=225 (LC 38), 39=172 (LC 53), 41=227 (LC 41), 42=214 (LC 41), 43=219 (LC 41), 44=186 (LC 41), 45=165 (LC 28), 46=159 (LC 39), 47=217 (LC 24), 48=204 (LC 49)

(lb) - Maximum Compression/Maximum Tension 2-48=-164/90, 1-2=0/30, 2-3=-177/172, 3-4=-137/134, 4-5=-128/135, 5-6=-114/148, 6-7=-103/176 7-8=-110/207 8-10=-136/254 10-11=-163/298, 11-12=-143/273,

12-13=-143/273. 13-14=-143/273. 14-15=-143/273, 15-16=-163/298, 16-18=-136/254, 18-19=-110/207, 19-20=-84/162, 20-21=-60/119, 21-22=-71/92, 22-23=-80/80, 23-24=-115/107, 24-25=0/30, 24-26=-131/49

47-48=-104/115, 46-47=-104/115, 45-46=-104/115, 44-45=-104/115, 43-44=-104/115, 42-43=-104/115, 41-42=-104/115, 39-41=-104/115, 38-39=-104/115, 37-38=-104/115,

36-37=-104/115, 35-36=-104/115, 33-35=-104/115, 32-33=-104/115, 31-32=-104/115, 30-31=-104/115, 29-30=-104/115, 28-29=-104/115, 27-28=-104/115, 26-27=-104/115

**WEBS** 13-37=-173/50, 12-38=-187/49, 11-39=-133/20, 10-41=-188/72, 8-42=-175/74, 7-43=-180/72, 6-44=-147/72, 5-45=-124/74, 4-46=-120/66, 3-47=-148/114, 14-36=-187/50, 15-35=-123/9, 16-33=-188/71, 18-32=-175/74,

19-31=-180/72, 20-30=-147/72 21-29=-123/74, 22-28=-121/65,

23-27=-134/105

#### NOTES

- 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 3-1-6, Exterior(2N) 3-1-6 to 11-11-8, Corner(3R) 11-11-8 to 27-11-8, Exterior (2N) 27-11-8 to 36-9-10, Corner(3E) 36-9-10 to 40-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; цитьрег DOL=1.60 plate grip DOL=1.60



February 27,2024

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

**FORCES** 

TOP CHORD

**BOT CHORD** 

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 - 75 FaNC	
24020109	A03	Piggyback Base Supported Gable	1	1	Job Reference (optional)	163854980

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:55 ID:hZGCK5eUZhY5oQuxeYaQVjzypGH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 2

- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) \* 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.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 48, 58 lb uplift at joint 26, 26 lb uplift at joint 37, 25 lb uplift at joint 38, 48 lb uplift at joint 41, 51 lb uplift at joint 42, 49 lb uplift at joint 43, 48 lb uplift at joint 44, 53 lb uplift at joint 45, 31 lb uplift at joint 46, 128 lb uplift at joint 47, 27 lb uplift at joint 36, 48 lb uplift at joint 33, 51 lb uplift at joint 32, 48 lb uplift at joint 31, 48 lb uplift at joint 30, 52 lb uplift at joint 29, 34 lb uplift at joint 28 and 112 lb uplift at joint 27.
- 15) 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.
- 16) 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

Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	A04	Piggyback Base Structural Gable	1	1	Job Reference (optional)	163854981

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Feb 26 11:17:56 ID:2KeN4EJcNub9W0AiwJaYnXzypFP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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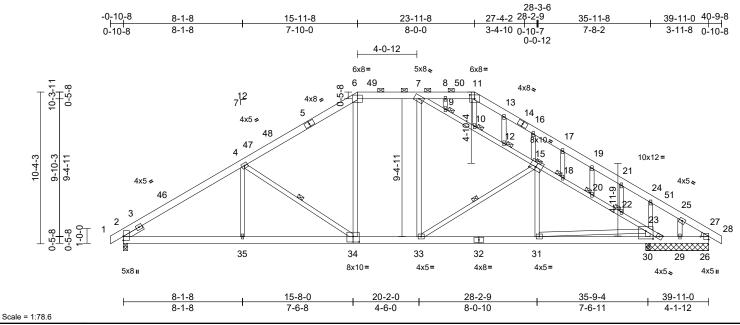


Plate Offsets (X, Y): [11:0-4-0,0-3-3], [15:0-5-0,0-2-12], [23:0-6-0,0-6-8], [27:Edge,0-6-12], [34:0-5-0,0-4-8]

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	0.68	Vert(LL)	-0.20	34-35	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.29	34-35	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	27	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 339 lb	FT = 20%

#### LUMBER

TOP CHORD 2x6 SP No.2 \*Except\* 7-15,15-26:2x4 SP

No.2

**BOT CHORD** 2x6 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 Right: 2x4 SP No.3 WEDGE SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-6 oc purlins, except

2-0-0 oc purlins (5-9-11 max.): 6-11, 7-45.

Except:

6-0-0 oc bracing: 23-26

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

bracing.

**WEBS** 1 Row at midpt 4-34, 15-33 JOINTS

1 Brace at Jt(s): 9, 10, 12, 18, 20, 22,

15

REACTIONS (size) 2=0-3-8, 26=4-3-8, 27=4-3-8,

29=4-3-8, 30=0-3-8, 40=4-3-8 Max Horiz 2=260 (LC 13)

Max Uplift 2=-128 (LC 14), 26=-35 (LC 15),

29=-224 (LC 45), 30=-271 (LC 15)

2=1648 (LC 5), 26=208 (LC 53), Max Grav 27=713 (LC 22), 29=140 (LC 41),

30=1875 (LC 25), 40=713 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/26, 2-4=-2411/187, 4-6=-1887/167,

6-7=-1522/196, 7-8=-576/149, 8-11=-577/149, 11-13=-679/151 13-16=-719/125, 16-17=-633/50,

17-19=-670/34. 19-21=-732/19.

21-24=-758/1, 24-25=-668/24, 25-27=-438/0, 27-28=0/26, 7-9=-1246/142, 9-10=-1253/143, 10-12=-1224/138, 12-18=-1458/145, 18-20=-1475/112, 20-22=-1478/112

22-23=-1507/128, 23-26=-396/156 2-35=-190/2115, 33-35=-161/2115,

**BOT CHORD** 31-33=0/1778, 30-31=0/682, 26-30=-64/682,

26-29=0/607, 27-29=0/607 8-9=-54/13, 10-11=-15/70, 12-13=-51/24,

15-16=-290/202, 17-18=-41/24, 19-20=-9/6, 21-22=-72/41, 23-24=-473/218, 25-29=-35/195, 6-34=-5/565, 4-34=-874/266, 4-35=0/287, 7-33=0/520, 15-33=-443/145, 15-31=0/232, 23-30=-1382/357,

23-31=0/1185

**NOTES** 

**WEBS** 

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 Exterior(2E) -0-10-8 to 3-1-6, Interior (1) 3-1-6 to 10-3-12. Exterior(2R) 10-3-12 to 23-11-8. Exterior(2E) 35-9-4 to 39-11-0, Interior (1) 23-11-8 to 36-9-10, Exterior(2E) 36-9-10 to 40-9-8 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.

- 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
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint



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## ontinued on page 2

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 - 75 FaNC	
24020	0109	A04	Piggyback Base Structural Gable	1	1	Job Reference (optional)	163854981

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Feb 26 11:17:56 ID: 2 KeN4 EJcNub9W0 Aiw JaYn Xzyp FP-RfC? PsB70 Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full for the property of Page: 2

- 13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 29, 27, and 30. This connection is for uplift only and does not consider lateral forces.
- 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.
- 16) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 1008 from left end and 1008 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard



ſ	Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
	24020109	B01	Common	4	1	Job Reference (optional)	163854982

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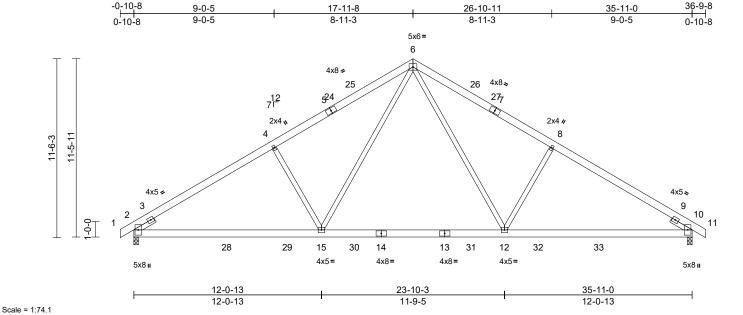


Plate Offsets (X, Y): [2:0-4-2,0-0-14], [10:0-4-2,0-0-14]

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	0.78	Vert(LL)	-0.22	12-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.36	12-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 245 lb	FT = 20%

#### LUMBER

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

**WEBS** 2x4 SP No.2 \*Except\* 4-15,8-12:2x4 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

3-3-12 oc purlins.

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

bracing.

REACTIONS 2=0-3-8. 10=0-3-8 (size) Max Horiz 2=-258 (LC 12)

Max Uplift 2=-147 (LC 14), 10=-147 (LC 15)

Max Grav 2=1760 (LC 24), 10=1760 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/26, 2-4=-2473/233, 4-6=-2285/292,

6-8=-2285/292, 8-10=-2474/233, 10-11=0/26

**BOT CHORD** 2-15=-271/2220, 12-15=-17/1470, 10-12=-119/2027

**WEBS** 6-15=-153/1077, 6-12=-154/1077,

4-15=-524/311, 8-12=-524/311

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) -0-10-8 to 2-8-10, Interior (1) 2-8-10 to 14-4-6, Exterior(2R) 14-4-6 to 21-6-10, Interior (1) 21-6-10 to 33-2-6, Exterior(2E) 33-2-6 to 36-9-8 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 arip 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



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Job Truss Truss Type Otv Ply DRB - 75 FaNC 163854983 24020109 B02 Common Supported Gable Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Feb 26 11:17:57 ID:EFOp5R3VnxPMyYwdZKh5HczypER-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

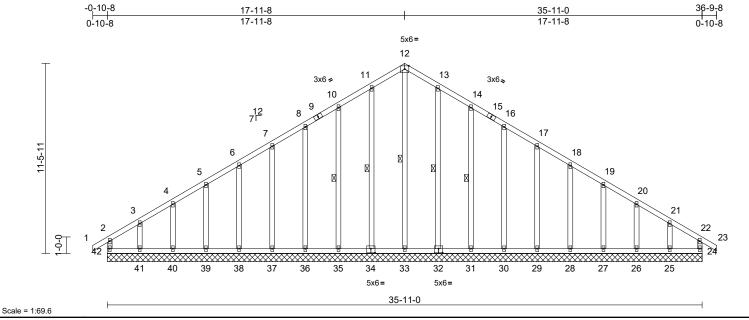


Plate Offsets (X, Y): [32:0-3-0,0-3-0], [34:0-3-0,0-3-0]

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	24	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 272 lb	FT = 20%

LUMBER

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

**OTHERS** 2x4 SP No.3 \*Except\* 33-12:2x4 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

12-33, 11-34, 10-35, 1 Row at midpt 13-32, 14-31 24=35-11-0 25=35-11-0

REACTIONS (size) 26=35-11-0, 27=35-11-0 28=35-11-0, 29=35-11-0,

30=35-11-0, 31=35-11-0, 32=35-11-0, 33=35-11-0, 34=35-11-0, 35=35-11-0,

36=35-11-0, 37=35-11-0, 38=35-11-0, 39=35-11-0, 40=35-11-0, 41=35-11-0,

42=35-11-0 Max Horiz 42=-275 (LC 12)

Max Uplift 24=-68 (LC 11), 25=-123 (LC 15), 26=-32 (LC 15), 27=-53 (LC 15),

28=-48 (LC 15), 29=-49 (LC 15), 30=-47 (LC 15), 31=-55 (LC 15), 32=-37 (LC 15), 34=-39 (LC 14),

35=-55 (LC 14), 36=-48 (LC 14), 37=-49 (LC 14), 38=-47 (LC 14),

39=-54 (LC 14), 40=-28 (LC 14), 41=-140 (LC 14), 42=-120 (LC 10) Max Grav 24=175 (LC 24), 25=199 (LC 25), 26=159 (LC 22), 27=164 (LC 25), 28=161 (LC 25), 29=161 (LC 25), 30=168 (LC 22), 31=225 (LC 22), 32=242 (LC 22), 33=252 (LC 15), 34=242 (LC 21), 35=225 (LC 21), 36=168 (LC 21), 37=162 (LC 24),

38=160 (LC 24), 39=165 (LC 28), 40=159 (LC 21), 41=223 (LC 24),

42=216 (LC 25)

(lb) - Maximum Compression/Maximum Tension

2-42=-173/98, 1-2=0/30, 2-3=-200/187, 3-4=-152/145, 4-5=-145/145, 5-6=-130/149, 6-7=-117/176, 7-8=-104/204, 8-10=-130/238,

10-11=-157/286, 11-12=-181/325, 12-13=-181/325, 13-14=-157/286,

14-16=-130/238, 16-17=-104/194, 17-18=-78/148, 18-19=-74/119,

19-20=-88/92, 20-21=-98/91 21-22=-139/124, 22-23=0/30, 22-24=-141/57

41-42=-116/133, 40-41=-116/133, 39-40=-116/133, 38-39=-116/133,

37-38=-116/133, 36-37=-116/133, 35-36=-116/133, 33-35=-116/133, 31-33=-117/134, 30-31=-117/134,

29-30=-117/134, 28-29=-117/134, 27-28=-117/134, 26-27=-117/134 25-26=-117/134, 24-25=-117/134 12-33=-264/91, 11-34=-204/62,

10-35=-186/78, 8-36=-130/71, 7-37=-123/72, 6-38=-122/71, 5-39=-124/74, 4-40=-120/65,

3-41=-151/120, 13-32=-204/61, 14-31=-186/78, 16-30=-130/71, 17-29=-123/72, 18-28=-122/72,

19-27=-123/74, 20-26=-120/64, 21-25=-138/111

**NOTES** 

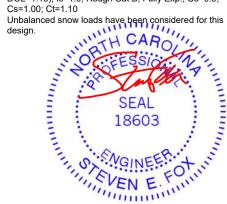
**WEBS** 

**FORCES** 

TOP CHORD

**BOT CHORD** 

- 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 2-8-10, Exterior (2N) 2-8-10 to 14-4-6, Corner(3R) 14-4-6 to 21-6-10, Exterior(2N) 21-6-10 to 33-2-6, Corner(3E) 33-2-6 to 36-9-8 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



February 27,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	B02	Common Supported Gable	1	1	Job Reference (optional)	163854983

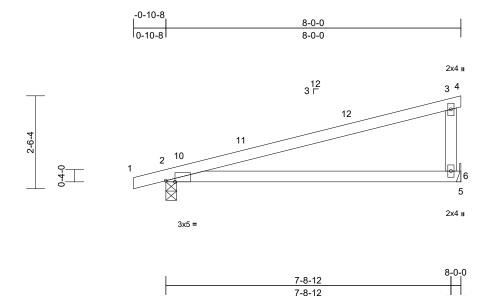
Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:57 ID:EFOp5R3VnxPMyYwdZKh5HczypER-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 2

- 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 120 lb uplift at joint 42, 68 lb uplift at joint 24, 39 lb uplift at joint 34, 55 lb uplift at joint 35, 48 lb uplift at joint 36, 49 lb uplift at joint 37, 47 lb uplift at joint 38, 54 lb uplift at joint 39, 28 lb uplift at joint 40, 140 lb uplift at joint 41, 37 lb uplift at joint 32, 55 lb uplift at joint 31, 47 lb uplift at joint 30, 49 Ib uplift at joint 29, 48 lb uplift at joint 28, 53 lb uplift at joint 27, 32 lb uplift at joint 26 and 123 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

Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	C01	Monopitch	10	1	Job Reference (optional)	163854984

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:57 ID:L1C9OiRKj9B5Z9DOJeE7VxzypDz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:31.2

Plate Offsets (X, Y): [2:0-2-15,Edge]

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	0.97	Vert(LL)	-0.25	6-9	>364	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.45	6-9	>205	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

#### LUMBER

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

# BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD Rigid ceiling directly applied.

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

Max Horiz 2=81 (LC 13)

Max Uplift 2=-78 (LC 10), 6=-55 (LC 14)

Max Grav 2=450 (LC 21), 6=432 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/13, 2-3=-304/74, 3-4=-6/0,

3-6=-311/177

**BOT CHORD** 2-6=-102/272, 5-6=0/0

#### 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 5-0-0, Exterior(2E) 5-0-0 to 8-0-0 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 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.

- 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 55 lb uplift at joint
- 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



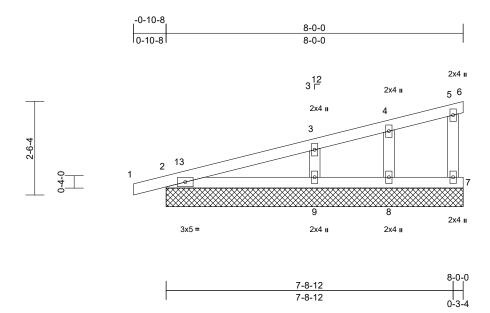
Page: 1

February 27,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	C02	Monopitch Supported Gable	2	1	Job Reference (optional)	163854985

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:58 ID:B?8iMB74HgN0uw3L96IUJyzypD4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:31

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 31 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**

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)

2=8-0-0, 7=8-0-0, 8=8-0-0, 9=8-0-0, 10=8-0-0

Max Horiz 2=78 (LC 13), 10=78 (LC 13) Max Uplift 2=-46 (LC 10), 7=-14 (LC 14),

8=-20 (LC 10), 9=-56 (LC 14), 10=-46 (LC 10)

Max Grav 2=215 (LC 21), 7=108 (LC 21), 8=126 (LC 21), 9=400 (LC 21),

10=215 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/12, 2-3=-92/77, 3-4=-43/49, 4-5=-33/43, 5-6=-5/0, 5-7=-88/38

2-9=-24/88, 8-9=-24/44, 7-8=-24/44 **BOT CHORD** 

3-9=-279/214, 4-8=-122/117 **WEBS** 

#### 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 Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-0-0, Corner(3E) 5-0-0 to 8-0-0 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
- 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.
- Gable requires continuous bottom chord bearing.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2, 14 lb uplift at joint 7, 56 lb uplift at joint 9, 20 lb uplift at joint 8 and 46 lb uplift at joint 2.
- 11) 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



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

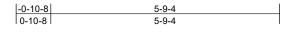
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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)

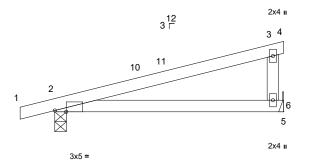


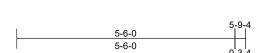
Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	C03	Monopitch	4	1	Job Reference (optional)	163854986

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:58 ID:Ut7CyCdodGXBJDiD3D\_6TbzypCR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









Scale = 1:29

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

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	0.57	Vert(LL)	-0.07	6-9	>943	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.12	6-9	>542	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

#### LUMBER

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

# BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8. 6= Mechanical Max Horiz 2=59 (LC 13)

Max Uplift 2=-66 (LC 10), 6=-39 (LC 14) Max Grav 2=369 (LC 21), 6=312 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/18, 2-3=-183/53, 3-4=-6/0,

3-6=-220/140 BOT CHORD 2-6=-76/165, 5-6=0/0

#### 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 2-9-4, Exterior(2E) 2-9-4 to 5-9-4 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 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.

- 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 39 lb uplift at joint
- 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



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February 27,2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent 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)

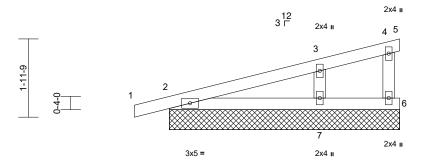


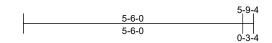
Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	C04	Monopitch Supported Gable	1	1	Job Reference (optional)	163854987

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:58 ID:Bpk 3dk3HLomWmT8eJAStizypCH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:28.9

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0	l									Weight: 22 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**

TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.

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

bracing.

#### REACTIONS (size)

7=5-9-4, 8=5-9-4 Max Horiz 2=57 (LC 11), 8=57 (LC 11) Max Uplift 2=-49 (LC 10), 5=-2 (LC 14), 6=-12 (LC 7), 7=-52 (LC 14), 8=-49 (LC

2=5-9-4, 5=5-9-4, 6=5-9-4,

10) Max Grav 2=240 (LC 21), 5=32 (LC 21), 6=4 (LC 21), 7=378 (LC 21), 8=240 (LC

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-79/60, 3-4=-33/28, 4-5=-5/7,

4-6=-14/32 **BOT CHORD** 2-7=-22/82, 6-7=-17/32

**WEBS** 3-7=-268/243

#### 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 Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-9-4 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.
- Gable requires continuous bottom chord bearing
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 2, 2 lb uplift at joint 5, 12 lb uplift at joint 6, 52 lb uplift at joint 7 and 49 lb uplift at joint 2.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.
- 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



February 27,2024



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

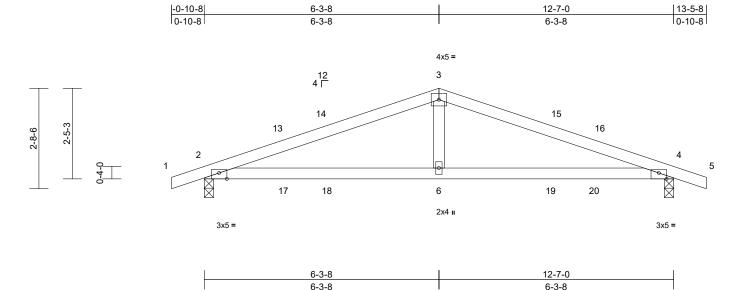
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 - 75 FaNC	
24020109	D01	Common	4	1	Job Reference (optional)	163854988

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:58 ID:SpxzPUpqXAaai5FKE92CMSzhHzi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.9

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

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	0.73	Vert(LL)	0.13	6-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.16	6-12	>963	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.02	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 44 lb	FT = 20%

#### LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-9-12 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 5-0-10 oc

bracing.

REACTIONS (size) 2=0-3-0, 4=0-3-0

Max Horiz 2=38 (LC 14)

Max Uplift 2=-202 (LC 10), 4=-202 (LC 11)

Max Grav 2=649 (LC 21), 4=649 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-968/1305, 3-4=-968/1305,

4-5=0/17

2-6=-1146/864, 4-6=-1146/864 BOT CHORD

**WEBS** 3-6=-496/291

#### 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) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-3-8, Exterior(2R) 3-3-8 to 9-3-8, Interior (1) 9-3-8 to 10-5-8, Exterior(2E) 10-5-8 to 13-5-8 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

- 4) 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.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. 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



February 27,2024



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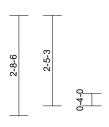
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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)

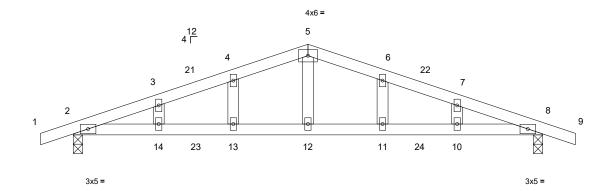


Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	D02	Common Structural Gable	1	1	Job Reference (optional)	163854989

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:59 ID:OwXIGMdQ3ZhiPobRsWGhFHzhHzx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







6-3-8	12-7-0
6-3-8	6-3-8

Scale = 1:30.9

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.13	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.17	10-11	>871	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							1	
BCDL	10.0			1							Weight: 49 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**

TOP CHORD Structural wood sheathing directly applied or

5-2-10 oc purlins

BOT CHORD Rigid ceiling directly applied or 4-9-7 oc

bracing

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

Max Horiz 2=37 (LC 18)

Max Uplift 2=-196 (LC 10), 8=-196 (LC 11)

Max Grav 2=629 (LC 21), 8=629 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-942/1277, 3-4=-917/1277,

4-5=-903/1298, 5-6=-903/1298,

6-7=-917/1277, 7-8=-942/1277, 8-9=0/16

2-14=-1138/860, 13-14=-1138/860,

12-13=-1138/860, 11-12=-1138/860, 10-11=-1138/860, 8-10=-1138/860

5-12=-521/309, 4-13=-109/46, 3-14=-53/34,

6-11=-109/47, 7-10=-53/34

# **WEBS** NOTES

**BOT CHORD** 

- 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 Exterior(2E) -0-10-8 to 2-3-8, Interior (1) 2-3-8 to 3-3-8, Exterior(2R) 3-3-8 to 9-3-8, Interior (1) 9-3-8 to 10-3-8, Exterior(2E) 10-3-8 to 13-5-8 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
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- 10) \* 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.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. 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



February 27,2024

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

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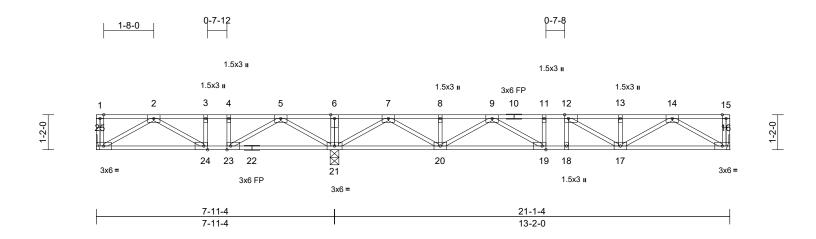
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 - 75 FaNC	
24020109	F01	Floor	5	1	Job Reference (optional)	163854990

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Feb 26 11:17:59 ID:OCrecDxPXX19myk2T7iUyAznBd4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:38.4

Plate Offsets (X, Y): [12:0-1-8,Edge], [19:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,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	0.37	Vert(LL)	-0.05	19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.32	Vert(CT)	-0.07	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 110 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** 

**BRACING** 

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

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

bracing

REACTIONS (size) 16= Mechanical, 21=0-3-8, 25=

Mechanical Max Uplift 25=-30 (LC 4)

16=413 (LC 4), 21=963 (LC 1), Max Grav

25=237 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

TOP CHORD 1-25=-46/0, 15-16=-49/0, 1-2=0/0,

2-3=-359/251, 3-4=-359/251, 4-5=-359/251, 5-6=0/893, 6-7=0/893, 7-8=-606/0, 8-9=-606/0, 9-11=-1120/0, 11-12=-1120/0,

12-13=-979/0, 13-14=-979/0, 14-15=0/0 **BOT CHORD** 24-25=-84/309, 23-24=-251/359,

21-23=-523/107, 20-21=-157/22,

19-20=0/964, 18-19=0/1120, 17-18=0/1120,

16-17=0/609

**WEBS** 6-21=-138/0, 5-21=-660/0, 2-25=-357/97, 5-23=0/473, 2-24=-195/59, 3-24=-29/80,

4-23=-188/0, 7-21=-940/0, 14-16=-705/0, 7-20=0/702, 14-17=0/432, 8-20=-115/0, 13-17=-132/0, 9-20=-436/0, 12-17=-229/40, 9-19=0/288, 11-19=-83/0, 12-18=-56/36

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint
- 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



February 27,2024



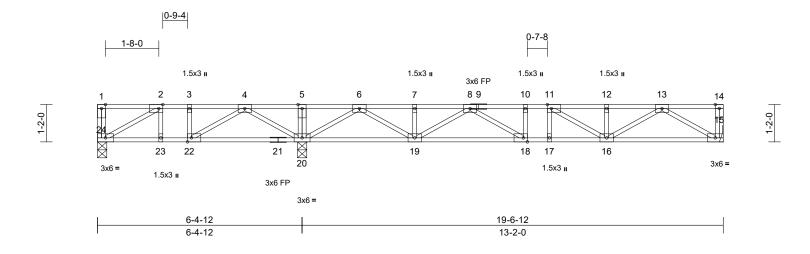
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPI1 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 - 75 FaNC	
24020109	F02	Floor	10	1	Job Reference (optional)	163854991

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:17:59 ID:o22Co2BypgZJA0FueK3AmNznBcm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	тс	0.36	Vert(LL)	-0.05	` 18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	0.32	Vert(CT)	-0.07	18-19	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 103 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** 

**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= Mechanical, 20=0-3-8, 24=0-3-8

Max Uplift 24=-65 (LC 4)

Max Grav 15=417 (LC 7), 20=922 (LC 1),

24=173 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

TOP CHORD 1-24=-68/0, 14-15=-49/0, 1-2=0/0,

2-3=-203/193, 3-4=-203/193, 4-5=0/865, 5-6=0/865, 6-7=-643/0, 7-8=-643/0,

8-10=-1142/0, 10-11=-1142/0, 11-12=-992/0,

12-13=-992/0, 13-14=0/0

BOT CHORD 23-24=-193/203, 22-23=-193/203,

20-22=-476/52, 19-20=-124/65, 18-19=0/995, 17-18=0/1142, 16-17=0/1142, 15-16=0/616

**WEBS** 5-20=-135/0, 4-20=-591/0, 2-24=-233/221, 4-22=0/399, 2-23=-69/3, 3-22=-141/0, 6-20=-936/0, 13-15=-713/0, 6-19=0/696, 13-16=0/439, 7-19=-114/0, 12-16=-132/0,

8-19=-432/0, 11-16=-240/32, 8-18=0/282,

10-18=-81/0, 11-17=-54/38

# NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24. 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



February 27,2024



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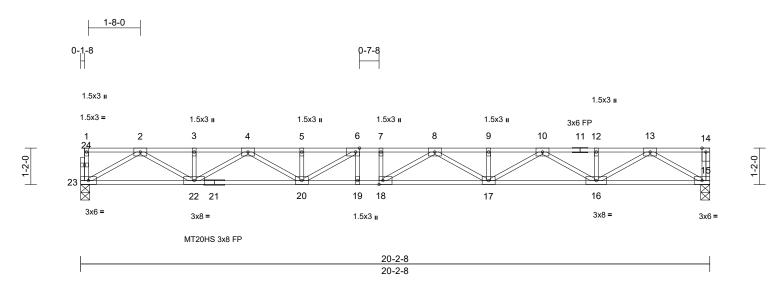
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 - 75 FaNC	
24020109	F03	Floor	10	1	Job Reference (optional)	163854992

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:00 ID:5fVGrGT?92av2i5V2MVpkRznBcO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37

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Plate Offsets (X, Y): [6:0-1-8,Edge], [18:0-1-8,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	0.37	Vert(LL)	-0.34	17-18	>705	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.47	17-18	>509	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 104 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) \*Except\* 21-15:2x4 SP BOT CHORD

No.1(flat)

WFBS 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 (size) 15=0-3-8, 23=0-3-8

Max Grav 15=732 (LC 1), 23=728 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-48/0, 14-15=-49/0, 1-2=-3/0, 2-3=-2049/0, 3-4=-2049/0, 4-5=-3187/0,

5-6=-3187/0, 6-7=-3474/0, 7-8=-3474/0,

8-9=-3193/0, 9-10=-3193/0, 10-12=-2047/0,

12-13=-2047/0, 13-14=0/0 22-23=0/1154, 20-22=0/2718, 19-20=0/3474,

BOT CHORD 18-19=0/3474, 17-18=0/3446, 16-17=0/2720,

15-16=0/1155

13-15=-1336/0, 2-23=-1332/0, 13-16=0/1041,

2-22=0/1045, 12-16=-107/0, 3-22=-111/0, 10-16=-786/0, 4-22=-780/0, 10-17=0/552, 4-20=0/548, 9-17=-106/0, 5-20=-135/9, 8-17=-309/0, 6-20=-508/42, 8-18=-210/292,

6-19=-58/106, 7-18=-81/36

#### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x5 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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



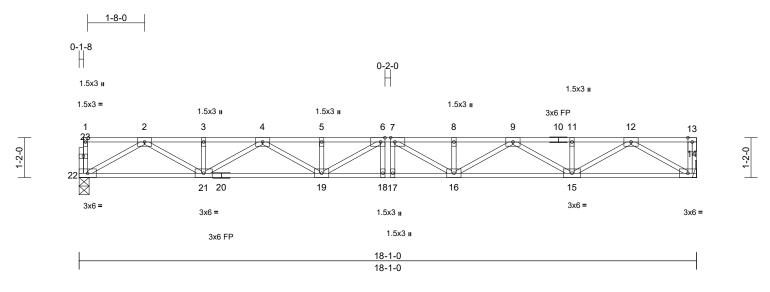
February 27,2024



Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	F04	Floor	6	1	Job Reference (optional)	163854993

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:00 ID:9Yvx\_OfPdfTnL0kOR0GKrcznBc9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.7

Plate Offsets (X, Y): [6:0-1-8,Edge], [7:0-1-8,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	0.24	Vert(LL)	-0.23	18	>930	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.32	18	>676	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 95 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 14= Mechanical, 22=0-3-8 (size) Max Grav 14=654 (LC 1), 22=650 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-48/0, 13-14=-49/0, 1-2=-3/0, 2-3=-1787/0, 3-4=-1787/0, 4-5=-2674/0,

5-6=-2674/0, 6-7=-2798/0, 7-8=-2674/0, 8-9=-2674/0, 9-11=-1787/0, 11-12=-1787/0,

12-13=0/0

BOT CHORD 21-22=0/1020, 19-21=0/2326, 18-19=0/2798,

17-18=0/2798. 16-17=0/2798. 15-16=0/2326.

14-15=0/1022

WEBS 12-14=-1182/0, 2-22=-1177/0, 12-15=0/893,

2-21=0/895, 11-15=-110/0, 3-21=-112/0, 9-15=-630/0, 4-21=-629/0, 9-16=0/406, 4-19=0/406, 8-16=-130/0, 5-19=-130/0, 7-16=-309/114, 6-19=-309/114, 6-18=-76/85,

7-17=-76/85

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 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



February 27,2024



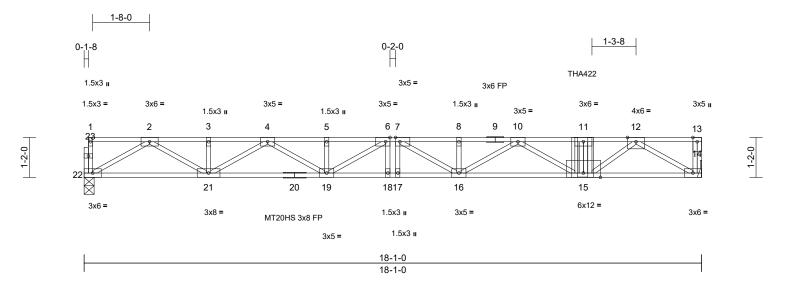
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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	F05	Floor Girder	1	1	Job Reference (optional)	163854994

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Feb 26 11:18:00 ID:11 Yzn4sX6gPLI1q80rDynznBZ1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:33.7

Plate Offsets (X, Y): [6:0-1-8,Edge], [7:0-1-8,Edge]

Loading	(nof)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
Loading	(psf)	Spacing	1-4-0	CSI		DELL	1111	(100)	i/deli	L/u	PLAIES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.29	16-17	>745	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.40	16-17	>540	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.07	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 99 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) \*Except\* 20-14:2x4 SP BOT CHORD

No.1(flat)

WFBS 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 (size) 14= Mechanical, 22=0-3-8 Max Grav 14=1047 (LC 1), 22=740 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-48/0, 13-14=-51/0, 1-2=-3/0,

2-3=-2092/0, 3-4=-2092/0, 4-5=-3273/0, 5-6=-3273/0, 6-7=-3570/0, 7-8=-3613/0,

8-10=-3613/0, 10-11=-2964/0,

11-12=-2964/0, 12-13=0/0

BOT CHORD 21-22=0/1175, 19-21=0/2780, 18-19=0/3570,

17-18=0/3570, 16-17=0/3570, 15-16=0/3417,

14-15=0/1694

12-14=-1959/0, 2-22=-1356/0, 2-21=0/1070,

11-15=-624/0, 3-21=-111/0, 10-15=-516/0, 4-21=-804/0, 10-16=0/229, 4-19=0/575, 8-16=-129/0, 5-19=-121/0, 7-16=-99/323

6-19=-523/0, 6-18=-28/144, 7-17=-135/37, 12-15=0/1533

#### NOTES

WEBS

- 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.
- CAUTION, Do not erect truss backwards.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 14-7-4 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: 14-22=-7, 1-13=-67 Concentrated Loads (lb)

Vert: 11=-484 (F)



Page: 1

February 27,2024



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

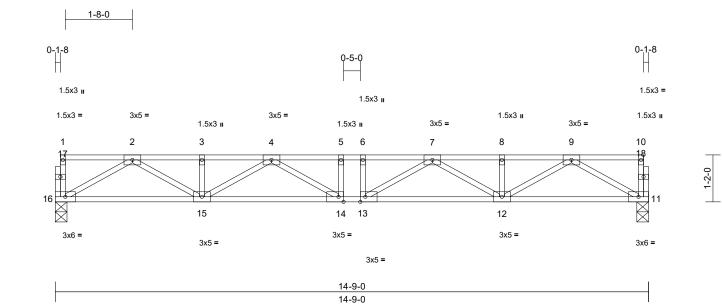
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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	F06	Floor	4	1	Job Reference (optional)	163854995

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:00 

Page: 1



Scale = 1:28.6

Plate Offsets (X, Y): [13:0-1-8,Edge], [14:0-1-8,Edge	Plate Offsets	(X, Y):	[13:0-1-8,Edge],	[14:0-1-8,Edge
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-	-			ł								
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	0.17	Vert(LL)	-0.11	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.14	14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 77 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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 11=0-3-8, 16=0-3-8

Max Grav 11=527 (LC 1), 16=527 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-16=-47/0, 10-11=-47/0, 1-2=-3/0,

2-3=-1375/0, 3-4=-1375/0, 4-5=-1852/0, 5-6=-1852/0, 6-7=-1852/0, 7-8=-1375/0,

8-9=-1375/0, 9-10=-3/0

**BOT CHORD** 15-16=0/811, 14-15=0/1715, 13-14=0/1852,

12-13=0/1715, 11-12=0/811

9-11=-935/0, 2-16=-935/0, 9-12=0/659, WEBS 2-15=0/659, 8-12=-109/0, 3-15=-109/0,

7-12=-396/0, 4-15=-396/0, 7-13=-44/284,

4-14=-44/284, 5-14=-91/0, 6-13=-91/0

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 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



February 27,2024



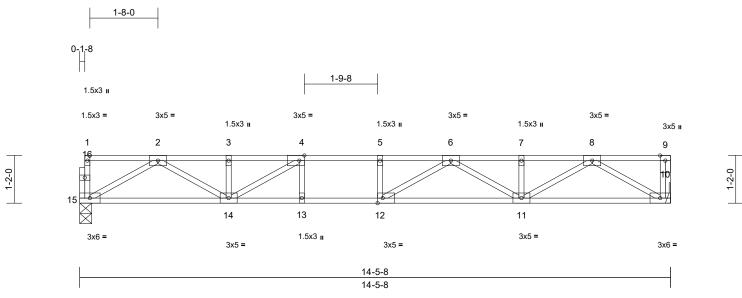
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	F07	Floor	2	1	Job Reference (optional)	163854996

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:01 ID:SRtRbP87zFeymJNGK7Vx?FznBbW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.2

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	0.46	Vert(LL)	-0.14	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.19	11-12	>889	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 73 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) 10= Mechanical, 15=0-3-8 Max Grav 10=521 (LC 1), 15=517 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-47/0, 9-10=-49/0, 1-2=-3/0, 2-3=-1326/0, 3-4=-1326/0, 4-5=-1734/0,

5-6=-1734/0, 6-7=-1343/0, 7-8=-1343/0,

8-9=0/0

**BOT CHORD** 14-15=0/792, 13-14=0/1734, 12-13=0/1734,

11-12=0/1660, 10-11=0/797

8-10=-922/0, 2-15=-913/0, 8-11=0/637, WEBS 2-14=0/624, 7-11=-102/0, 3-14=-125/42,

6-11=-370/0, 4-14=-567/0, 6-12=-71/281,

4-13=-19/94, 5-12=-107/0

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 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



February 27,2024



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

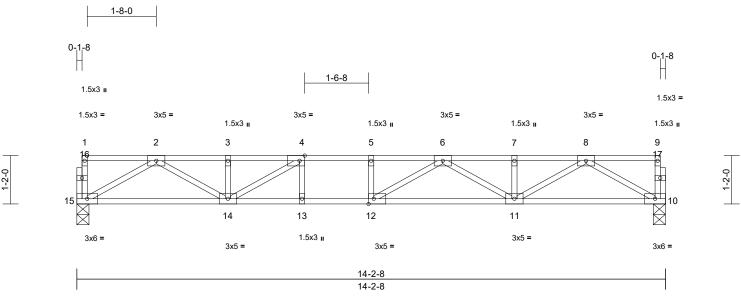
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Ţ	Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
1	24020109	F08	Floor	6	1	Job Reference (optional)	163854997

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:01 

Page: 1



Scale = 1:27.8

Plate Offsets	(X, Y	):	[4:0-1-8,Edge],	[12:0-1-8,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	0.41	Vert(LL)	-0.12	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.17	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH		, ,					Weight: 72 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

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) 10=0-3-8, 15=0-3-8

Max Grav 10=508 (LC 1), 15=508 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-15=-48/0, 9-10=-47/0, 1-2=-3/0,

2-3=-1298/0, 3-4=-1298/0, 4-5=-1677/0, 5-6=-1677/0, 6-7=-1312/0, 7-8=-1312/0,

8-9=-3/0

**BOT CHORD** 14-15=0/776, 13-14=0/1677, 12-13=0/1677,

11-12=0/1615, 10-11=0/780

8-10=-899/0, 2-15=-895/0, 8-11=0/620, WEBS 2-14=0/609, 7-11=-103/0, 3-14=-127/33,

6-11=-354/0, 4-14=-528/0, 6-12=-81/259,

4-13=-21/89, 5-12=-96/0

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 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



February 27,2024



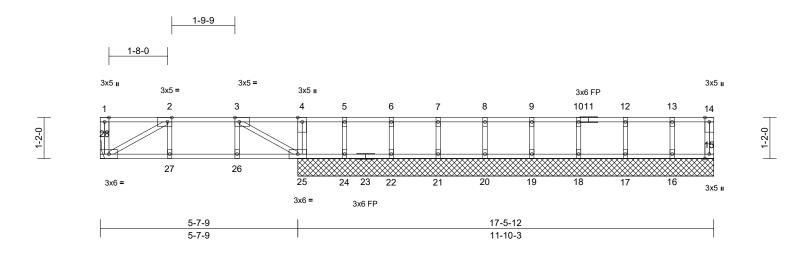
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	F09	Floor	1	1	Job Reference (optional)	163854998

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Feb 26 11:18:01 ID:WbpXJLXCR5gQcEpQCr4RI?znBb0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.8

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,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	0.13	Vert(LL)	-0.01	27-28	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01	27-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 79 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=11-10-3, 16=11-10-3, 17=11-10-3, 18=11-10-3, 19=11-10-3, 20=11-10-3, 21=11-10-3, 22=11-10-3, 24=11-10-3, 25=11-10-3, 28=

Mechanical

Max Grav

15=29 (LC 3), 16=97 (LC 4), 17=98 (LC 3), 18=98 (LC 4), 19=98 (LC 3), 20=98 (LC 4), 21=99 (LC 3), 22=105 (LC 4), 24=111 (LC 3), 25=262 (LC 1), 28=203 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-28=-54/0, 14-15=-26/0, 1-2=0/0, 2-3=-259/0, 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=0/0, 8-9=0/0, 9-10=0/0,

10-12=0/0, 12-13=0/0, 13-14=0/0 BOT CHORD 27-28=0/259, 26-27=0/259, 25-26=0/259,

24-25=0/0, 22-24=0/0, 21-22=0/0, 20-21=0/0, 19-20=0/0, 18-19=0/0, 17-18=0/0, 16-17=0/0,

15-16=0/0

WFBS 4-25=-118/0, 3-25=-297/0, 2-28=-297/0,

2-27=-4/26, 3-26=-5/33, 5-24=-97/0, 6-22=-94/0, 7-21=-89/0, 8-20=-89/0, 9-19=-89/0, 10-18=-89/0, 12-17=-89/0,

13-16=-88/0

NOTES

- Unbalanced floor live loads have been considered for
- 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.
- Refer to girder(s) for truss to truss connections. 5)
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 6) 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



February 27,2024



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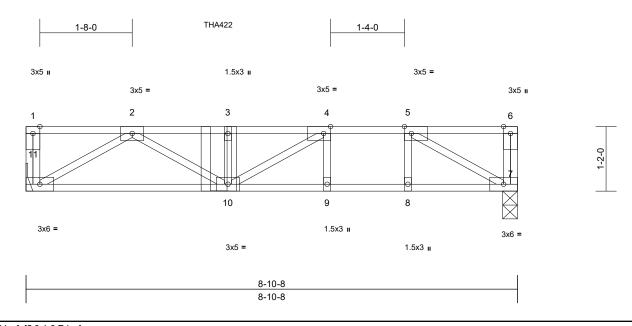
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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	F10	Floor Girder	1	1	Job Reference (optional)	163854999

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Feb 26 11:18:02 ID:PR9IQzPMUDkCEIKGQzMKDBznBZu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:20.8

Plate Offsets (X, Y):	[4:0-1-8,Edge], [5:0-1-8,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	0.52	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.10	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 47 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** 

**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) 7=0-3-3, 11= Mechanical Max Grav 7=354 (LC 1), 11=378 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-11=-51/0, 6-7=-36/27, 1-2=0/0, 2-3=-886/0,

3-4=-886/0, 4-5=-633/0, 5-6=0/0

**BOT CHORD** 10-11=0/550, 9-10=0/633, 8-9=0/633,

**WEBS** 5-7=-726/0, 2-11=-636/0, 2-10=0/393,

3-10=-299/0, 4-10=0/334, 4-9=-136/0,

5-8=0/144

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 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 (Single Chord Girder) or equivalent at 3-5-12 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: 7-11=-7, 1-6=-67

Concentrated Loads (lb) Vert: 3=-91 (F)



February 27,2024



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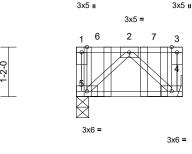
Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	F11	Floor Girder	1	1	Job Reference (optional)	63855000

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:02 ID:PAeKr9CiU\_bcihX\_xuZL1bznBa9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-0-0

THA422

THA422



2-6-0 2-6-0

Scale = 1:27.2

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	0.65	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	0.00	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 17 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** 

#### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Grav 4=529 (LC 1), 5=603 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-5=-276/0, 3-4=-201/0, 1-2=0/0, 2-3=0/0

BOT CHORD 4-5=0/346

**WEBS** 2-5=-471/0, 2-4=-471/0

#### 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 (Single Chord Girder) or equivalent spaced at 1-4-0 oc max. starting at 0-6-0 from the left end to 1-10-0 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: 6=-486 (B), 7=-481 (B)



Page: 1

February 27,2024



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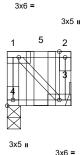
ſ	Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
	24020109	F12	Floor Girder	1	1	Job Reference (optional)	163855001

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Feb 26 11:18:02 ID:bloU9wKcuN\_3WNs64iFwzwznBa\_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

0-10-8

**THA422** 



1-4-8

Scale = 1:24.8

Plate Offsets (X, Y): [4:Edge,0-1-8]

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	0.37	Vert(LL)	n/a	` -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	0.00	3-4	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 11 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** 

## **BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-4-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Grav 3=130 (LC 1), 4=118 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-4=-114/0, 2-3=-126/0, 1-2=0/0

**BOT CHORD** 3-4=0/0 WEBS 1-3=0/0

#### 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 (Single Chord Girder) or equivalent at 0-8-12 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

Vert: 5=-166 (F)

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 3-4=-7, 1-2=-67 Concentrated Loads (lb)



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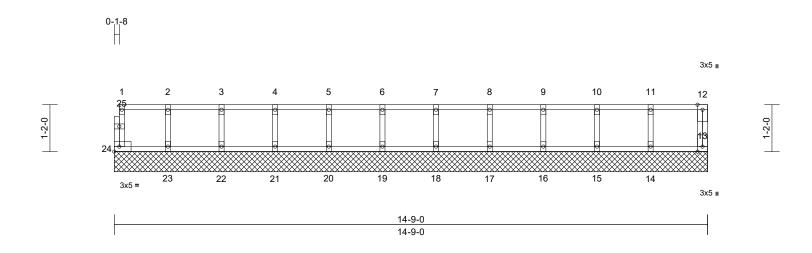
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 - 75 FaNC	
24020109	FW14	Floor Supported Gable	1	1	Job Reference (optional)	163855002

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:02 ID:PjhB nc1URtonv7Xw1AJPmznBZd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.6

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	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 63 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 (size)

13=14-9-0, 14=14-9-0, 15=14-9-0, 16=14-9-0, 17=14-9-0, 18=14-9-0, 19=14-9-0, 20=14-9-0, 21=14-9-0,

22=14-9-0, 23=14-9-0, 24=14-9-0 13=45 (LC 1), 14=99 (LC 1), 15=98

(LC 1), 16=98 (LC 1), 17=98 (LC 1), 18=98 (LC 1), 19=98 (LC 1), 20=98 (LC 1), 21=98 (LC 1), 22=99 (LC 1), 23=94 (LC 1), 24=38 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-34/0, 12-13=-41/0, 1-2=-7/0, 2-3=-7/0,

3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0,

11-12=-7/0

**BOT CHORD** 23-24=0/7, 22-23=0/7, 21-22=0/7, 20-21=0/7,

19-20=0/7, 18-19=0/7, 17-18=0/7, 16-17=0/7,

15-16=0/7, 14-15=0/7, 13-14=0/7 2-23=-86/0, 3-22=-90/0, 4-21=-89/0, 5-20=-89/0, 6-19=-89/0, 7-18=-89/0,

8-17=-89/0, 9-16=-89/0, 10-15=-89/0, 11-14=-90/0

#### NOTES

**WEBS** 

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 3) 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.

- 5) 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



February 27,2024



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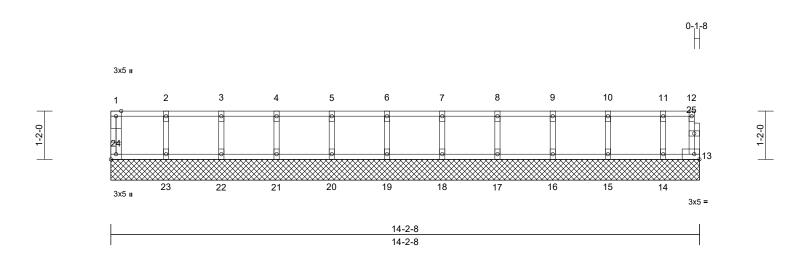
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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	FW14A	Floor Supported Gable	1	1	Job Reference (optional)	163855003

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:02 ID:qINJcpfvmMGMeNs6bAj01PznBZa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.8

Plate Offsets (X, Y): [24:Edge,0-1-8]

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	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 61 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 (size) 13=14-2-8, 14=14-2-8, 15=14-2-8, 16=14-2-8, 17=14-2-8, 18=14-2-8, 19=14-2-8, 20=14-2-8, 21=14-2-8,

22=14-2-8, 23=14-2-8, 24=14-2-8 13=20 (LC 1), 14=77 (LC 1),

Max Grav 15=102 (LC 1), 16=97 (LC 1),

17=98 (LC 1), 18=98 (LC 1), 19=98 (LC 1), 20=98 (LC 1), 21=98 (LC 1), 22=98 (LC 1), 23=98 (LC 1), 24=39 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-36/0, 12-13=-16/0, 1-2=-4/0, 2-3=-4/0,

3-4=-4/0, 4-5=-4/0, 5-6=-4/0, 6-7=-4/0, 7-8=-4/0, 8-9=-4/0, 9-10=-4/0, 10-11=-4/0,

11-12=-4/0

**BOT CHORD** 23-24=0/4, 22-23=0/4, 21-22=0/4, 20-21=0/4,

19-20=0/4, 18-19=0/4, 17-18=0/4, 16-17=0/4,

15-16=0/4, 14-15=0/4, 13-14=0/4 2-23=-88/0, 3-22=-89/0, 4-21=-89/0 5-20=-89/0. 6-19=-89/0. 7-18=-89/0.

8-17=-89/0, 9-16=-88/0, 10-15=-92/0,

11-14=-72/0

#### **NOTES**

WEBS

- 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



February 27,2024



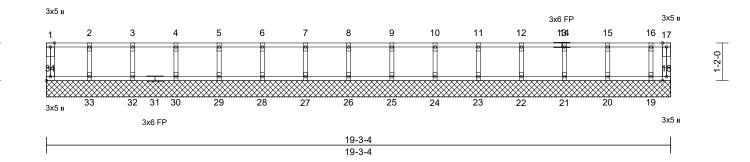
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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	FW19	Floor Supported Gable	1	1	Job Reference (optional)	163855004

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:03 ID:Et2SFqho3HexVqagHIHjf1znBZX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:35.6

Plate Offsets	(X, Y	'): [34	:Edge,0-	-1-8]
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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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 82 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 (size)

18=19-3-4, 19=19-3-4, 20=19-3-4, 21=19-3-4, 22=19-3-4, 23=19-3-4, 24=19-3-4, 25=19-3-4, 26=19-3-4, 27=19-3-4, 28=19-3-4, 29=19-3-4, 30=19-3-4, 32=19-3-4, 33=19-3-4,

34=19-3-4

18=11 (LC 1), 19=69 (LC 1), Max Grav

20=102 (LC 1), 21=97 (LC 1), 22=98 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=98 (LC 1), 29=98 (LC 1), 30=98 (LC 1), 32=98 (LC 1), 33=99 (LC 1), 34=39 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-34=-36/0, 17-18=-6/0, 1-2=-4/0, 2-3=-4/0, 3-4=-4/0, 4-5=-4/0, 5-6=-4/0, 6-7=-4/0, 7-8=-4/0. 8-9=-4/0. 9-10=-4/0. 10-11=-4/0.

11-12=-4/0, 12-14=-4/0, 14-15=-4/0,

15-16=-4/0, 16-17=-4/0

BOT CHORD 33-34=0/4, 32-33=0/4, 30-32=0/4, 29-30=0/4,

28-29=0/4, 27-28=0/4, 26-27=0/4, 25-26=0/4, 24-25=0/4, 23-24=0/4, 22-23=0/4, 21-22=0/4,

20-21=0/4, 19-20=0/4, 18-19=0/4 2-33=-89/0, 3-32=-89/0, 4-30=-89/0,

5-29=-89/0, 6-28=-89/0, 7-27=-89/0, 8-26=-89/0, 9-25=-89/0, 10-24=-89/0

11-23=-89/0, 12-22=-89/0, 14-21=-88/0, 15-20=-92/0, 16-19=-68/0

#### **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 5) 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



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WFBS

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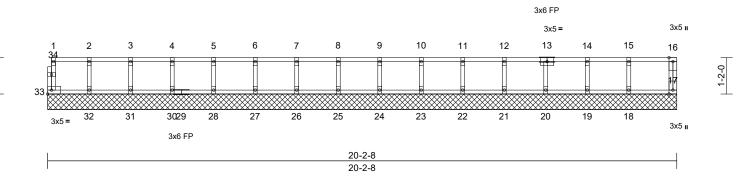
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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	FW20	Floor Supported Gable	1	1	Job Reference (optional)	163855005

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:03 ID:Q DcYbphTf0NJXwoQ6zlbMznBZM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:37

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 84 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 (size)

17=20-2-8, 18=20-2-8, 19=20-2-8, 20=20-2-8, 21=20-2-8, 22=20-2-8, 23=20-2-8, 24=20-2-8, 25=20-2-8, 26=20-2-8, 27=20-2-8, 28=20-2-8, 30=20-2-8, 31=20-2-8, 32=20-2-8,

33=20-2-8

Max Grav 17=51 (LC 1), 18=103 (LC 1),

19=94 (LC 1), 20=98 (LC 1), 21=100 (LC 1), 22=97 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=98 (LC 1), 30=98 (LC 1), 31=99 (LC 1), 32=95 (LC 1), 33=38

(LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-33=-34/0, 16-17=-46/0, 1-2=-7/0, 2-3=-7/0,

3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-14=-10/0, 14-15=-10/0,

15-16=-10/0

BOT CHORD 32-33=0/7, 31-32=0/7, 30-31=0/7, 28-30=0/7,

27-28=0/7, 26-27=0/7, 25-26=0/7, 24-25=0/7, 23-24=0/7, 22-23=0/7, 21-22=0/7, 20-21=0/7,

19-20=0/10, 18-19=0/10, 17-18=0/10

2-32=-87/0, 3-31=-90/0, 4-30=-89/0, 5-28=-89/0, 6-27=-89/0, 7-26=-89/0,

8-25=-89/0, 9-24=-89/0, 10-23=-89/0, 11-22=-88/0, 12-21=-91/0, 13-20=-89/0,

14-19=-85/0, 15-18=-94/0

#### NOTES

- 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 5) 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



February 27,2024

WEBS

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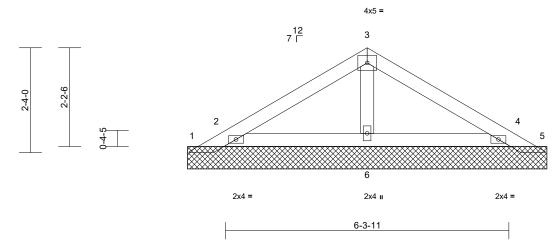


Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	PB1	Piggyback	12	1	Job Reference (optional)	163855006

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:03 ID:kA8RvPcE13INZ6IZX7XyQIzypGJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-0-9-12	3-1-13	6-3-11	7-1-7
0-9-12	3-1-13	3-1-13	0-9-12



Scale = 1:25.6

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 25 lb	FT = 20%

#### LUMBER

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

# **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)

1=8-0-0, 2=8-0-0, 4=8-0-0, 5=8-0-0, 6=8-0-0, 7=8-0-0,

10=8-0-0

Max Horiz 1=-49 (LC 12)

Max Uplift 1=-151 (LC 21), 2=-88 (LC 14), 4=-84 (LC 15), 5=-149 (LC 22),

7=-88 (LC 14), 10=-84 (LC 15)

1=58 (LC 14), 2=435 (LC 21), Max Grav

4=422 (LC 22), 5=42 (LC 15), 6=192 (LC 21), 7=435 (LC 21),

10=422 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-61/115, 2-3=-107/64, 3-4=-107/64, 4-5=-36/105

**BOT CHORD** 2-6=-54/39. 4-6=-55/39 WFBS 3-6=-102/32

#### 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 Exterior(2E) 0-3-11 to 3-3-11, Exterior(2R) 3-3-11 to 4-8-5, Exterior(2E) 4-8-5 to 7-8-5 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

- 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 desian.
- Gable requires continuous bottom chord bearing.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 1 and 149 lb uplift at joint 5.
- 11) N/A
- 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.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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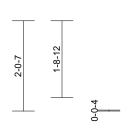


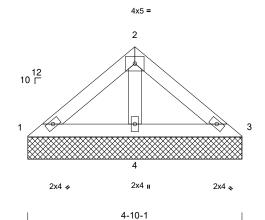
Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	V04	Valley	1	1	Job Reference (optional)	163855007

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:03  $ID: ELGZLWFII3TUL\_d3dxyYyGzhIFC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ 

Page: 1







Scale = 1:26

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0	1		1							Weight: 17 lb	FT = 20%

#### LUMBER

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

#### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

4-10-1 oc purlins.

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

bracing.

REACTIONS (size) 1=4-10-1, 3=4-10-1, 4=4-10-1,

9=4-10-1

Max Horiz 1=43 (LC 11)

Max Uplift 1=-73 (LC 21), 4=-31 (LC 15) Max Grav

1=73 (LC 20), 3=0 (LC 13), 4=470

(LC 21), 9=0 (LC 13)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-57/234, 2-3=-116/263

1-4=-174/106, 3-4=-186/115 BOT CHORD

WFBS 2-4=-378/127

#### 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 Exterior(2E) 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) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 1 and 31 lb uplift at joint 4.
- 11) 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



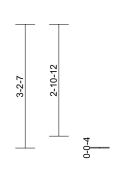
February 27,2024

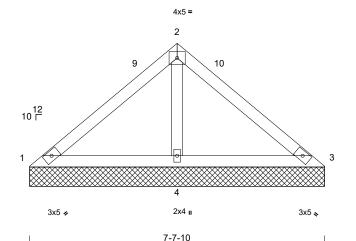


Job		Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
2402	0109	V07	Valley	1	1	Job Reference (optional)	163855008

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Feb 26 11:18:04 ID:qmaRjUDQ?85wUWuVypOrLezhIFF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:29.8

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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 lb	FT = 20%

#### LUMBER

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

# **BRACING**

TOP CHORD Structural wood sheathing directly applied or

7-7-10 oc purlins.

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

bracing.

REACTIONS (size) 1=7-7-10, 3=7-7-10, 4=7-7-10

Max Horiz 1=-71 (LC 10)

Max Uplift 1=-26 (LC 21), 3=-26 (LC 20),

4=-82 (LC 14)

1=105 (LC 20), 3=105 (LC 21), Max Grav

4=579 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-99/255, 2-3=-99/255

1-4=-176/162, 3-4=-176/162 **BOT CHORD** 

WFBS 2-4=-419/217

#### 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 Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 4-7-15, Exterior(2E) 4-7-15 to 7-7-15 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 desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1, 26 lb uplift at joint 3 and 82 lb uplift at joint 4.
- 11) 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



February 27,2024



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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	V10	Valley	1	1	Job Reference (optional)	163855009

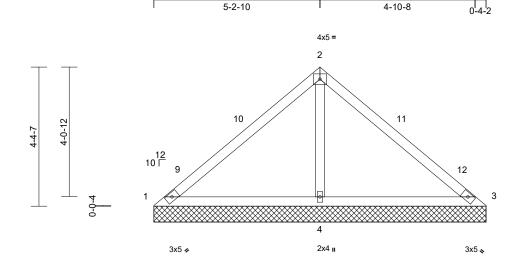
5-2-10

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:04 ID:QBvI4TBXiDjLd3AwHhr8j?zhIFI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-1-2

Page: 1



Scale = 1:36.2

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	0.54	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.48	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	l									Weight: 40 lb	FT = 20%

10-5-4

#### LUMBER

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

#### **BRACING**

Structural wood sheathing directly applied or TOP CHORD

10-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=10-5-4, 3=10-5-4, 4=10-5-4

Max Horiz 1=98 (LC 11)

Max Uplift 1=-66 (LC 21), 3=-66 (LC 20),

4=-127 (LC 14)

1=82 (LC 20), 3=82 (LC 21), 4=862 Max Grav

(LC 20)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-133/426, 2-3=-133/426

1-4=-246/189, 3-4=-246/189

WFBS 2-4=-674/299

#### NOTES

TOP CHORD

BOT CHORD

- 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 Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 7-5-9, Exterior(2E) 7-5-9 to 10-5-9 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 desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 1, 66 lb uplift at joint 3 and 127 lb uplift at joint 4.
- 11) 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



February 27,2024



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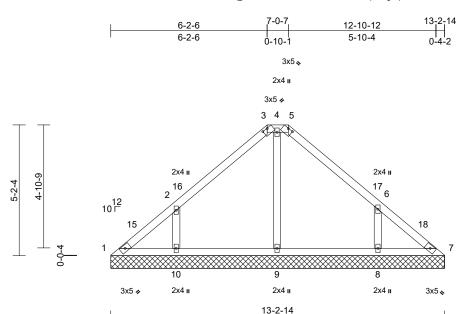
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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	V13	Valley	1	1	Job Reference (optional)	163855010

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:04 ID:XQfnF581e\_Cv8Rs82rmCZ9zhIFM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:45.7

Plate Offsets (X, Y): [3:0-2-8,0-0-3], [5:0-2-8,0-0-3]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/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	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 55 lb	FT = 20%

#### LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 3-5. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 1=13-2-14, 7=13-2-14, 8=13-2-14,

9=13-2-14, 10=13-2-14

Max Horiz 1=-118 (LC 10)

1=-29 (LC 10), 8=-137 (LC 15), Max Uplift

10=-140 (LC 14)

Max Grav 1=150 (LC 48), 7=143 (LC 38),

8=445 (LC 38), 9=318 (LC 38),

10=444 (LC 38)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-189/108, 2-3=-199/142, 3-4=-93/164, 4-5=-93/164, 5-6=-198/142, 6-7=-173/61

BOT CHORD

1-10=-36/138, 9-10=-35/93, 8-9=-35/93,

7-8=-35/125 **WEBS** 

4-9=-240/15, 2-10=-357/257, 6-8=-357/253

#### 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) 0-0-5 to 3-0-5, Corner(3R) 3-0-5 to 10-3-2, Corner(3E) 10-3-2 to 13-3-2 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) 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.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1, 140 lb uplift at joint 10 and 137 lb uplift at joint 8.
- 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
- 13) 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



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Job	Truss	Truss Type	Qty	Ply	DRB - 75 FaNC	
24020109	V16	Valley	1	1	Job Reference (optional)	163855011

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:04 ID:EG9s4GRel9v8BXQ?efjcCwzhIGG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

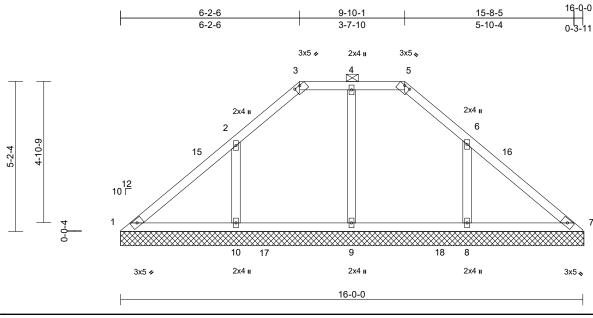


Plate Offsets (X, Y): [3:0-2-8,0-0-3], [5:0-2-8,0-0-3]

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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 67 lb	FT = 20%

#### LUMBER

Scale = 1:39.9

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.

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

bracing.

REACTIONS (size) 1=16-0-7, 7=16-0-7, 8=16-0-7, 9=16-0-7, 10=16-0-7

Max Horiz 1=-118 (LC 10)

Max Uplift 8=-133 (LC 15), 9=-5 (LC 11),

10=-139 (LC 14)

Max Grav 1=210 (LC 38), 7=213 (LC 38),

8=574 (LC 48), 9=405 (LC 43),

10=579 (LC 46)

**FORCES** (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-250/143, 2-3=-213/76, 3-4=-82/78,

4-5=-82/78, 5-6=-212/77, 6-7=-253/131 BOT CHORD

1-10=-69/217, 9-10=-69/157, 8-9=-69/157,

7-8=-69/194

4-9=-258/62, 2-10=-369/213, 6-8=-369/212

#### **WEBS** 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) 0-0-5 to 3-0-5, Corner(3R) 3-0-5 to 13-0-12, Corner(3E) 13-0-12 to 16-0-12 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) 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.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 9, 139 lb uplift at joint 10 and 133 lb uplift at joint 8.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
- 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



February 27,2024



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 - 75 FaNC	
24020109	V18	Valley	1	1	Job Reference (optional)	163855012

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Mon Feb 26 11:18:05 ID:WLY4zrJNf5eZ ?f43ZYGopzhIGQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

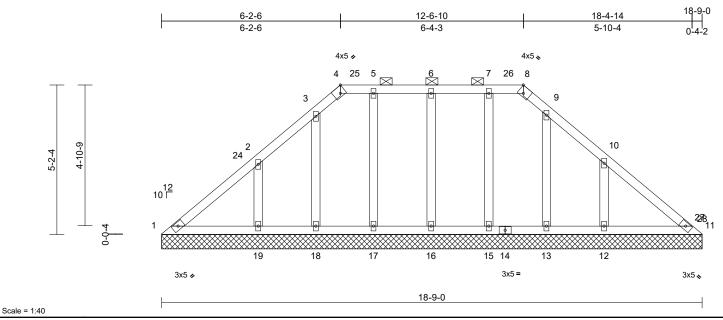


Plate Offsets (X, Y): [4:0-2-4,Edge], [8:Edge,0-2-11]

-		ı					-		-			
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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	l									Weight: 99 lb	FT = 20%

#### LUMBER

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

# BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-8. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

1=18-9-0, 11=18-9-0, 12=18-9-0, 13=18-9-0, 15=18-9-0, 16=18-9-0, 17=18-9-0, 18=18-9-0, 19=18-9-0

> Max Horiz 1=114 (LC 11)

Max Uplift 1=-6 (LC 10), 12=-113 (LC 15), 13=-16 (LC 15), 15=-11 (LC 11),

16=-35 (LC 10), 17=-18 (LC 11), 18=-27 (LC 14), 19=-114 (LC 14)

Max Grav

1=136 (LC 40), 11=107 (LC 42), 12=381 (LC 38), 13=164 (LC 38), 15=228 (LC 37), 16=224 (LC 37), 17=226 (LC 37), 18=167 (LC 38),

19=379 (LC 38)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-161/171, 2-3=-51/101, 3-4=-36/74, 4-5=-25/75, 5-6=-25/75, 6-7=-25/75,

7-8=-25/75, 8-9=-37/74, 9-10=-47/83,

10-11=-132/146 **BOT CHORD** 

1-19=-68/135, 18-19=-68/127 17-18=-68/127, 16-17=-68/127,

15-16=-68/127, 13-15=-68/127, 12-13=-68/127, 11-12=-68/127

**WEBS** 6-16=-188/66, 5-17=-183/42, 3-18=-158/54, 2-19=-266/160, 7-15=-184/37, 9-13=-156/43,

10-12=-269/165

NOTES

- 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) 0-0-5 to 3-0-5, Corner(3R) 3-0-5 to 15-4-8, Corner(3E) 15-4-8 to 18-4-12 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 DOI = 160
- 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.
- Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 6 lb uplift at joint 1, 35 lb uplift at joint 16, 18 lb uplift at joint 17, 27 lb uplift at joint 18, 114 lb uplift at joint 19, 11 lb uplift at joint 15, 16 lb uplift at joint 13 and 113 lb uplift at joint

- 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



February 27,2024



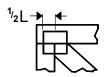
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

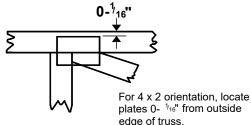


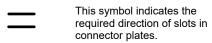
# Symbols

#### 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**

 $4 \times 4$ 

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

#### **BFARING**



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:**

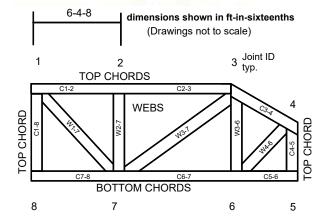
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

Design Standard for Bracing.

DSB-22: BCSI:

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