

RE: P210577 - Floor -

**Site Information:** 

Project Customer: Starr Homes Project Name: Milligan Residence

Lot/Block: 3A/4A Subdivision: Tiffany Woods

Model: Milligan Residence

Address: 512 NE Promised View Dr.

City: Lees Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

**Drawings Show Special Loading Conditions):** 

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

Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Roof Load: 60.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 35 Exposure Category: C

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Nathan Fox

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

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



MiTek USA, Inc.

16023 Swingley Ridge Rd

Chesterfield, MO 63017

314-434-1200

May 24,2023

Nathan Fox



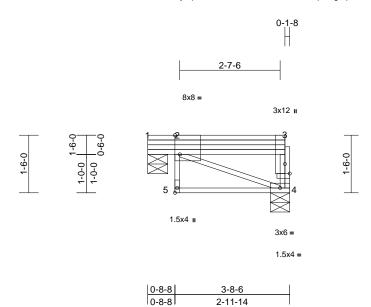
RE: P210577 - Floor -

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F01	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:16 ID:xfaeJN2lyTqF7SKMM51al7zIRBV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,0-3-0], [5:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	0.00	5	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.02	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%F, 11%E

## LUMBER

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

## BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-6 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. REACTIONS

(size) 1=0-6-4, 4=0-6-0

Max Grav 1=217 (LC 1), 4=225 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=0/19, 3-4=-206/0, 1-2=0/0, 2-3=0/0

**BOT CHORD** 4-5=0/0 WFBS 2-4=0/0

# NOTES

- This truss is designed in accordance with the 2018 1) 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



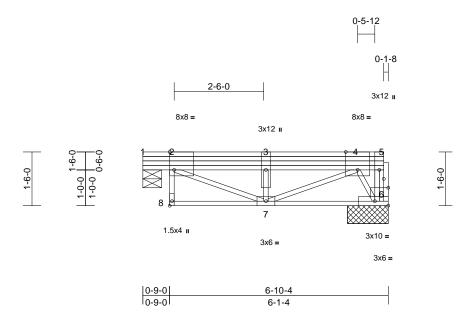




J	lob	Truss	Truss Type	Qty	Ply	
F	P210577 - Floor	F02	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:18 ID:MmJd41VyErV?38fU1MBFlxzIRAw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.2

Plate Offsets (X, Y): [2:0-1-8,Edge], [4:0-4-0,Edge], [5:0-1-8,0-3-0], [8:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.01	7-8	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.02	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 65 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

1=0-6-4, 6=1-1-10 (size) Max Grav 1=412 (LC 1), 6=422 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=0/13, 5-6=0/14, 1-2=0/0, 2-3=-635/0, 3-4=-635/0, 4-5=0/0

7-8=0/0, 6-7=0/255

**BOT CHORD** WEBS 2-7=0/697, 3-7=-421/0, 4-7=0/421,

4-6=-489/0

## NOTES

**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.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard







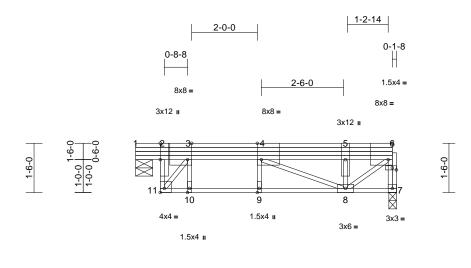


Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F03	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:19 ID:QHusd1wLhnEPb65zNRnh?czIR95-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

> 7-11-6 4-2-14

Page: 1



Scale = 1:35.1

Plate Offsets (X, Y):	[2:0-6-0,Edge], [3:0-1-8,Edge], [4:0-	1-8.Edgel, [6:0-1-8.Edgel	. [6:0-1-8.0-0-12]. [11:Edge.0-1-8]
1 late 0113013 (A, 1).	[2.0 0 0,Euge], [0.0 1 0,Euge], [4.0	i o,Lagoj, [o.o i o,Lagoj	, [0.0 1 0,0 0 12], [11.Eugc,0 1 0]

		1		1	-		-					
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.02	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.03	8-9	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%F, 11%E

| 0-9-0 | 1-8-8 | 2-8-8 | 3-8-8 | 0-9-0 | 0-11-8 | 1-0-0 | 1-0-0

## LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-6-4, 7=0-2-12 (size)

Max Grav 1=485 (LC 1), 7=495 (LC 1)

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

Tension

TOP CHORD 2-11=0/992, 6-7=-490/0, 1-2=0/0, 2-3=0/0,

3-4=-667/0, 4-5=-534/0, 5-6=-534/0 10-11=0/666, 9-10=0/667, 8-9=0/665,

**BOT CHORD** 

7-8=0/0

3-10=0/39, 4-9=0/28, 3-11=-1200/0,

4-8=-188/0, 5-8=-350/0, 6-8=0/695

# **WEBS** NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 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

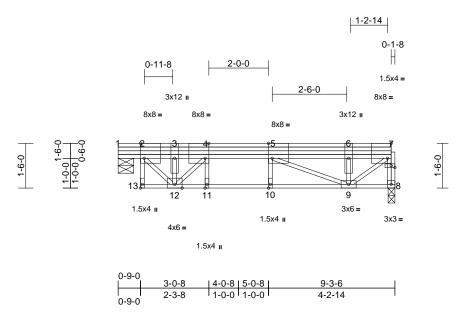




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F04	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:19 ID:cO20xo2F5AdrQpR4WEUGxwzIR8w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:38.6

Plate Offsets (X, Y): [2:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge], [7:0-1-8,0-0-12], [13:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.02	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.03	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 87 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-6-4, 8=0-2-12 (size)

Max Grav 1=569 (LC 1), 8=579 (LC 1)

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

Tension TOP CHORD 2-13=0/10, 7-8=-574/0, 1-2=0/0, 2-3=-691/0,

3-4=-691/0, 4-5=-1022/0, 5-6=-628/0,

6-7=-628/0

**BOT CHORD** 12-13=0/0, 11-12=0/1020, 10-11=0/1022,

9-10=0/1019, 8-9=0/0

**WEBS** 4-11=0/32, 5-10=0/34, 4-12=-535/0,

3-12=-375/0, 2-12=0/1026, 5-9=-436/0,

6-9=-320/0, 7-9=0/817

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



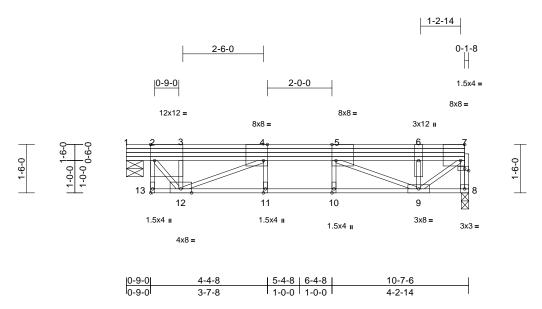




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F05	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:19 ID:4s8pjyGXsiulaapXa0pVgjzIR8e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.7

Plate Offsets (X, Y): [2:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge], [7:0-1-8,0-0-12], [13:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.03	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.04	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		l ` ´					Weight: 98 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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) 1=0-6-4, 8=0-2-12

Max Grav 1=654 (LC 1), 8=664 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-13=-1/0, 7-8=-659/0, 1-2=0/0, 2-3=-805/0,

3-4=-805/0, 4-5=-1350/0, 5-6=-727/0,

6-7=-727/0

**BOT CHORD** 12-13=0/0, 11-12=0/1347, 10-11=0/1350,

9-10=0/1347, 8-9=0/0

**WEBS** 4-11=0/35, 5-10=0/36, 4-12=-616/0,

3-12=-807/0, 2-12=0/1357, 5-9=-685/0,

6-9=-314/0, 7-9=0/945

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



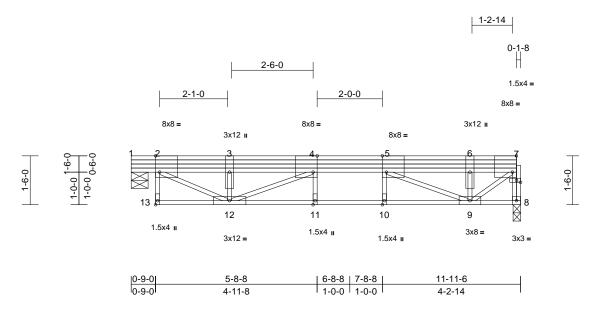




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F06	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:19 ID:JsieArarkh9chZpX5UHbjCzIR8E-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.3

Plate Offsets (X, Y): [2:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge], [7:0-1-8,0-0-12], [13:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.05	11-12	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.19	Vert(CT)	-0.07	11-12	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-6-4, 8=0-2-12 (size)

Max Grav 1=738 (LC 1), 8=748 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** 

TOP CHORD

Tension 2-13=0/13, 7-8=-743/0, 1-2=0/0, 2-3=-1490/0,

3-4=-1490/0, 4-5=-1692/0, 5-6=-822/0,

6-7=-822/0

**BOT CHORD** 12-13=0/0, 11-12=0/1690, 10-11=0/1692,

9-10=0/1689, 8-9=0/0

**WEBS** 4-11=0/31, 5-10=0/40, 4-12=-407/0,

3-12=-670/0, 2-12=0/1692, 5-9=-957/0,

6-9=-294/0, 7-9=0/1070

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24,2023



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

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

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

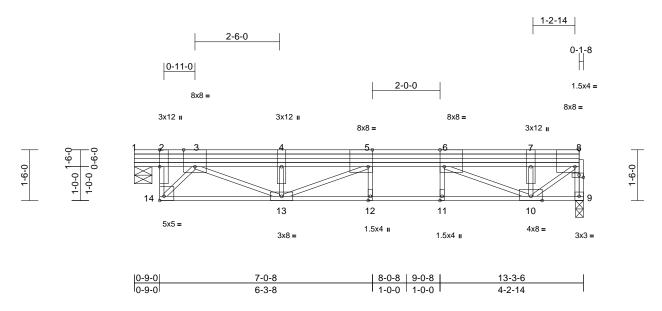
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F07	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:19 ID: 21 eY 50 A4 KR7 ENSA feQ 6 nOKzIR4 u-RfC? PsB70 Hq3NSgPqnL8 w3uITXbGKWrCDoi7J4zJC? full features and fine the first of the first

Page: 1



Scale = 1:34.1

Plate Offsets (X, Y): [2:0-6-0,Edge], [3:0-4-0,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [8:0-1-8,Edge], [8:0-1-8,0-0-12], [14:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.06	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.10	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-6-4, 9=0-2-12 (size)

Max Grav 1=823 (LC 1), 9=833 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-14=0/1271, 8-9=-827/0, 1-2=0/0, 2-3=0/0,

3-4=-2059/0, 4-5=-2059/0, 5-6=-2041/0,

6-7=-917/0, 7-8=-917/0

**BOT CHORD** 13-14=0/1083, 12-13=0/2040, 11-12=0/2041,

10-11=0/2038, 9-10=0/0

**WEBS** 5-12=0/23, 6-11=0/48, 5-13=-282/173, 4-13=-437/0. 3-13=0/1080. 3-14=-1654/0.

6-10=-1238/0, 7-10=-274/2, 8-10=0/1193

# NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24,2023



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

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

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

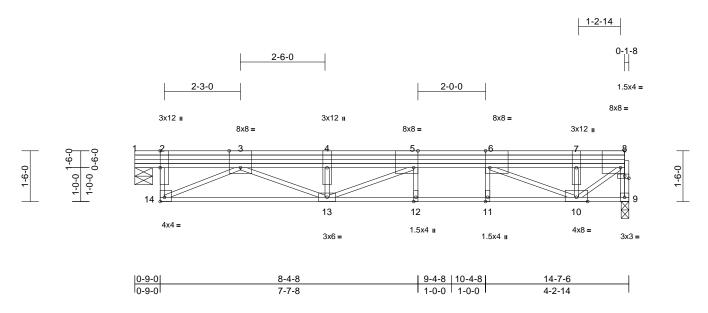
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F08	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:20 ID:fninCdfJUIFR1UouI1?QoozIHV\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.1

Plate Offsets (X, Y):	[2:0-6-0,Edge], [3:0-4	1-0,Edge], [5:0-1-8,Ed	lge], [6:0-1-8,Edge], [8	:0-1-8,Edge], [8:0-1-8,0-0	0-12], [14:Edge,0-1-8]
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Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.09	12-13	>999		MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.28	Vert(CT)		13-14	>999	720	_	
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 134 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-6-4, 9=0-2-12 (size)

Max Grav 1=907 (LC 1), 9=917 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD

2-14=0/981, 8-9=-910/0, 1-2=0/0, 2-3=0/0,

3-4=-2690/0, 4-5=-2690/0, 5-6=-2388/0,

6-7=-1012/0, 7-8=-1012/0

**BOT CHORD** 13-14=0/1864, 12-13=0/2388, 11-12=0/2388,

10-11=0/2384, 9-10=0/0

**WEBS** 5-12=-4/12, 6-11=0/55, 6-10=-1515/0,

7-10=-257/36. 8-10=0/1317. 5-13=-120/472.

4-13=-474/0, 3-13=0/911, 3-14=-2094/0

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



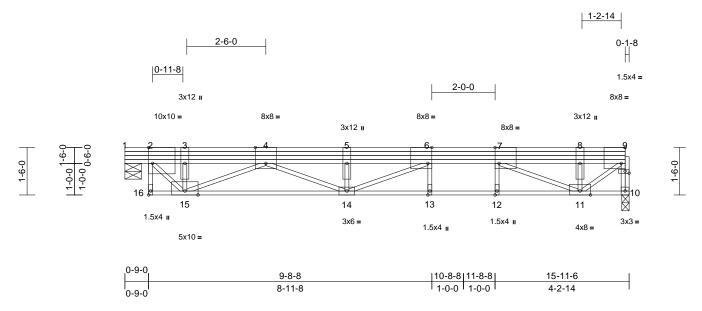




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F09	Floor	1	1	I58527946 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:20 ID:yP8sEqyNqgH1vAeVi3R2mszIHUc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.4

Plate Offsets (X, Y): [2:0-1-8,Edge], [4:0-4-0,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge], [9:0-1-8,Edge], [9:0-1-8,0-0-12], [16:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.11	13-14	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.18	13-14	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 147 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-6-4, 10=0-2-12 (size)

Max Grav 1=992 (LC 1), 10=1002 (LC 1)

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

Tension

TOP CHORD 2-16=-16/0, 9-10=-995/0, 1-2=0/0,

2-3=-1481/0, 3-4=-1481/0, 4-5=-3330/0, 5-6=-3330/0, 6-7=-2735/0, 7-8=-1107/0,

8-9=-1107/0

**BOT CHORD** 15-16=0/0, 14-15=0/2548, 13-14=0/2735,

12-13=0/2735, 11-12=0/2730, 10-11=0/0 6-13=-6/13, 7-12=0/59, 6-14=0/782,

5-14=-588/0, 4-14=0/863, 4-15=-1176/0,

3-15=-1069/0, 2-15=0/2198, 7-11=-1793/0,

8-11=-239/72, 9-11=0/1441

#### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
- 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.

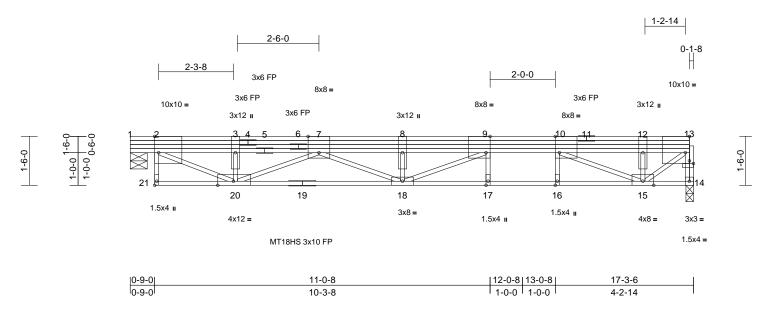
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F10	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:20 ID:qRwoe0CYu7w3wPkXQ\_J\_7HzIHUH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35.3

Plate Offsets (X, Y):	[2:0-1-8,Edge], [7:0-4-0,	Edge], [9:0-1-8, Edge], [10	):0-1-8,Edge], [13:0-	1-8,Edge], [13:0-1-8,0-	1-0], [20:0-5-12,Edge], [21:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.15	17-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.25	18-20	>827	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 159 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-6-4, 14=0-2-12 (size)

Max Grav 1=1076 (LC 1), 14=1086 (LC 1)

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

Tension

TOP CHORD 2-21=0/9, 13-14=-1079/0, 1-2=0/0, 2-3=-2497/0, 3-7=-2497/0, 7-8=-3965/0,

8-9=-3965/0, 9-10=-3081/0, 10-12=-1202/0,

12-13=-1202/0

**BOT CHORD** 20-21=0/0, 18-20=0/3298, 17-18=0/3082, 16-17=0/3081, 15-16=0/3076, 14-15=0/0

9-17=-12/9. 10-16=0/64. 9-18=0/1088.

8-18=-662/0, 7-18=0/735, 7-20=-883/0

3-20=-800/0, 2-20=0/2782, 10-15=-2070/0,

12-15=-222/107, 13-15=0/1564

#### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

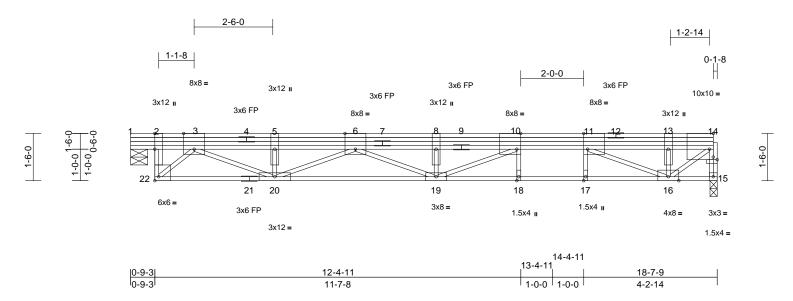




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F11	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:21 ID: fsoVTtUzTBpoBx?yHJDNY8zIHTw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffrom the property of the property

Page: 1



Scale = 1:36.6

Plate Offsets (X, Y):	[2:0-6-0,Edge], [3:0-4-0	),Edge], [6:0-4-0,Edge], [10:	0-1-8,Edge], [11:0-1-8,Edge	e], [14:0-1-8,Edge], [14:0-1-8,	0-1-0], [22:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.19	18-19	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.31	19-20	>722	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 171 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-6-7, 15=0-2-12 (size)

Max Grav 1=1161 (LC 1), 15=1172 (LC 1)

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

Tension

TOP CHORD 2-22=0/1746, 14-15=-1164/0, 1-2=0/0,

2-3=0/0, 3-5=-3388/0, 5-6=-3388/0, 6-8=-4602/0, 8-10=-4602/0, 10-11=-3433/0,

11-13=-1299/0, 13-14=-1299/0

BOT CHORD 20-22=0/1789, 19-20=0/4081, 18-19=0/3434,

17-18=0/3433, 16-17=0/3428, 15-16=0/0 10-18=-16/8. 11-17=0/69. 10-19=0/1394.

8-19=-728/0, 6-19=0/575, 6-20=-763/0, 5-20=-368/0, 3-20=0/1768, 3-22=-2487/0,

11-16=-2352/0, 13-16=-205/144,

14-16=0/1690

## NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
- 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.



May 24,2023

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

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

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

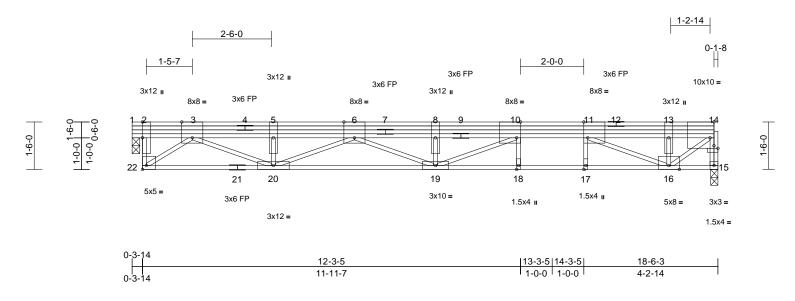


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F12	Floor	10	1	I58527949 Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:21 ID:ddWwJz3ujiFOulwLOQABVxzIH?U-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.4

Plate Offsets (X, Y): [2:0-6-0,Edge], [3:0-4-0,Edge], [6:0-4-0,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [14:0-1-8,Edge], [14:0-1-8,Ddge], [14:

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	· · · ·	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.16	18-19	>999		MT20	244/190
TCDL	25.0	Lumber DOL	1.00	ВС	0.43	Vert(CT)	-0.26	19-20	>835	720	_	
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 172 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

BRACING

LUMBER

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 1=0-2-14, 15=0-2-12 (size)

Max Grav 1=1160 (LC 1), 15=1165 (LC 1)

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

Tension

TOP CHORD 2-22=0/1277, 14-15=-1158/0, 1-2=0/0,

2-3=0/0, 3-5=-3297/0, 5-6=-3297/0, 6-8=-4520/0, 8-10=-4520/0, 10-11=-3338/0,

11-13=-1325/0, 13-14=-1325/0

**BOT CHORD** 20-22=0/1638, 19-20=0/3925, 18-19=0/3338,

17-18=0/3338, 16-17=0/3333, 15-16=0/0 WEBS 10-18=-5/12, 11-17=0/58, 10-19=0/1404,

8-19=-766/0, 6-19=0/655, 6-20=-692/0, 5-20=-420/0, 3-20=0/1834, 3-22=-2064/0,

11-16=-2219/0, 13-16=-240/66,

14-16=0/1723

## NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15, 1.
- 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.

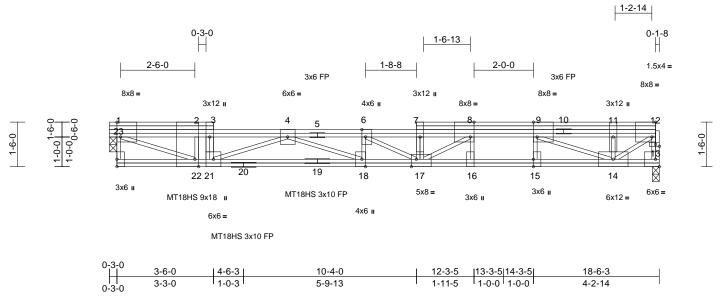




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F13	Floor	5	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:21 ID:qSyLlsFQ5J2j66F8VxwdL5zIGyf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.8

Plate Offsets (X, Y): [1:0-1-8,Edge], [6:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge], [12:0-1-8,0-0-12], [15:0-3-0,Edge], [17:0-2-0,Edge], [17	18:0-3-0,Edge], [22:0-3-0,Edge]
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							-				_	
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.16	18-21	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.25	18-21	>861	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 180 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-2-14, 13=0-2-12 (size)

Max Grav 1=1145 (LC 1), 13=1145 (LC 1)

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

Tension

TOP CHORD 1-23=-18/0, 12-13=-1135/0, 1-2=-2572/0, 2-3=-2572/0, 3-4=-2536/0, 4-6=-5109/0,

6-7=-4544/0, 7-8=-4496/0, 8-9=-3449/0,

9-11=-1381/0, 11-12=-1381/0

**BOT CHORD** 22-23=0/0, 21-22=0/2572, 18-21=0/4421,

17-18=0/5109, 16-17=0/3455, 15-16=0/3449,

14-15=0/3438, 13-14=0/0

WEBS 3-21=0/433, 7-17=-341/0, 8-16=-105/0,

9-15=0/127, 1-22=0/2799, 2-22=-727/0, 4-21=-2047/0, 4-18=0/778, 6-18=-231/0, 6-17=-687/0, 8-17=0/1342, 9-14=-2253/0,

11-14=-163/28, 12-14=0/1758

## NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1, 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



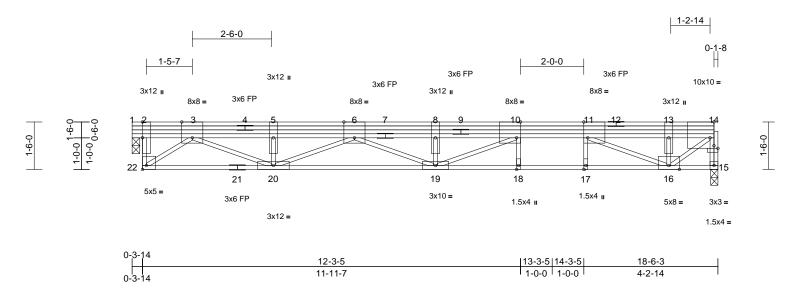




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F14	Floor	1	1	I58527951 Job Reference (optional)

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:21  $ID: TdP? soG\_00uF? 3Yz I Eaz EOz IGXW-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the pr$ 

Page: 1



Scale = 1:36.4

Plate Offsets (X, Y):	[2:0-6-0,Edge], [3:0-4-0	),Edge], [6:0-4-0,Edge], [10:	0-1-8,Edge], [11:0-1-8,Edge	e], [14:0-1-8,Edge], [14:0-1-8,	0-1-0], [22:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.16	18-19	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.26	19-20	>835	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 172 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 1=0-2-14, 15=0-2-12 (size)

Max Grav 1=1160 (LC 1), 15=1165 (LC 1)

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

TOP CHORD 2-22=0/1277, 14-15=-1158/0, 1-2=0/0, 2-3=0/0, 3-5=-3297/0, 5-6=-3297/0,

6-8=-4520/0, 8-10=-4520/0, 10-11=-3338/0,

11-13=-1325/0, 13-14=-1325/0

BOT CHORD 20-22=0/1638, 19-20=0/3925, 18-19=0/3338,

17-18=0/3338, 16-17=0/3333, 15-16=0/0 WEBS 10-18=-5/12, 11-17=0/58, 10-19=0/1404,

8-19=-766/0, 6-19=0/655, 6-20=-692/0,

5-20=-420/0, 3-20=0/1834, 3-22=-2064/0,

11-16=-2219/0, 13-16=-240/66,

14-16=0/1723

## NOTES

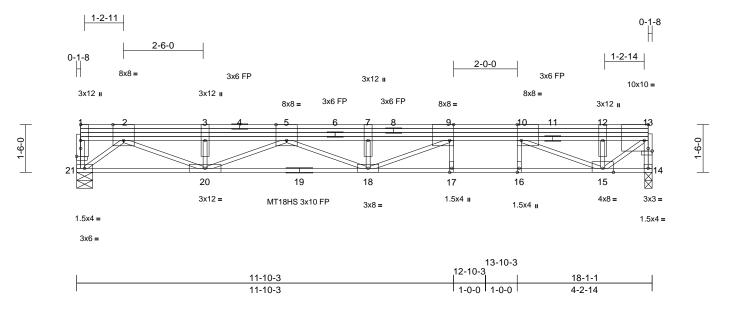
- Unbalanced floor live loads have been considered for 1) this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15, 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard 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.





Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F15	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:22 ID:ZKHOz0VzpgQXKmK7?XRYO8zIH6f-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36.2

Plate Offsets (X, Y): [1:0-1-8,0-3-0], [2:0-4-0,Edge], [5:0-4-0,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [13:0-1-8,Edge], [13:

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.14	17-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.23	18-20	>918	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 169 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

BRACING

LUMBER

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 14=0-2-12, 21=0-6-0 (size)

Max Grav 14=1130 (LC 1), 21=1130 (LC 1)

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

Tension

TOP CHORD 1-21=-64/0, 13-14=-1123/0, 1-2=0/0,

2-3=-2887/0, 3-5=-2887/0, 5-7=-4259/0, 7-9=-4259/0, 9-10=-3196/0, 10-12=-1283/0,

12-13=-1283/0

**BOT CHORD** 20-21=0/1225, 18-20=0/3617, 17-18=0/3196,

16-17=0/3196, 15-16=0/3192, 14-15=0/0 9-18=0/1277. 7-18=-734/0. 5-18=0/707.

5-20=-805/0, 3-20=-377/0, 2-20=0/1837,

2-21=-1611/0. 10-15=-2109/0.

12-15=-245/55, 13-15=0/1669, 9-17=-4/13,

10-16=0/57

## NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

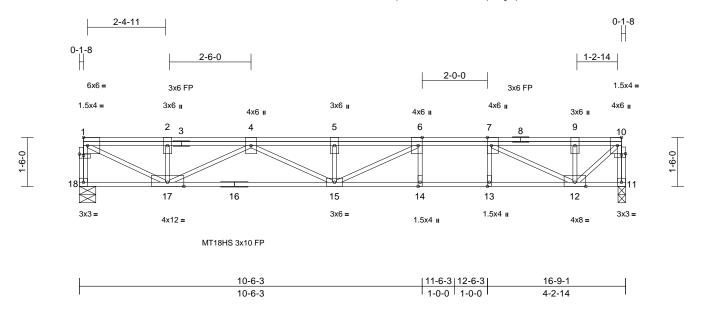




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F16	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:22 ID:h55kGHsnluCGwNdumqzacTzIH6B-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.3

Plate Offsets (X, Y): [1:0-1-8,0-0-8], [6:0-3-0,Edge], [7:0-3-0,Edge], [10:0-3-0,Edge], [10:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.17	14-15	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.27	14-15	>730	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 112 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

BRACING

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

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

bracing. REACTIONS

11=0-2-12, 18=0-6-0 (size)

Max Grav 11=1045 (LC 1), 18=1045 (LC 1)

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

TOP CHORD 1-18=-1034/0, 10-11=-1026/0, 1-2=-1798/0,

2-4=-1797/0, 4-5=-3398/0, 5-6=-3398/0, 6-7=-2772/0, 7-9=-999/0, 9-10=-1000/0

**BOT CHORD** 17-18=0/0, 15-17=0/2803, 14-15=0/2772, 13-14=0/2772, 12-13=0/2772, 11-12=0/0

6-14=-93/0, 7-13=0/149, 6-15=0/840, 5-15=-545/0, 4-15=0/668, 4-17=-1130/0.

2-17=-328/0, 1-17=0/2008, 7-12=-1983/0,

9-12=-189/191, 10-12=0/1347

# NOTES

**WEBS** 

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
- 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





Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F17	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:22 ID:Dj6emNT9zGVAw3RVhKtJe?zIH5P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

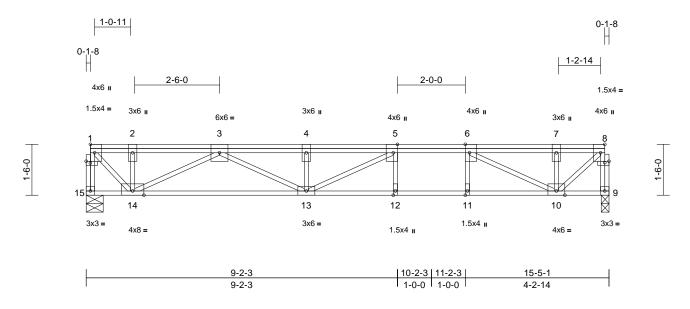


Plate Offsets (X, Y): [1:0-1-8,0-0-10], [5:0-3-0,Edge], [6:0-3-0,Edge], [8:0-3-0,Edge], [8:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.13	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.21	12-13	>887	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 104 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

9=0-2-12, 15=0-6-0 (size) Max Grav 9=961 (LC 1), 15=961 (LC 1)

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

TOP CHORD 1-15=-969/0, 8-9=-945/0, 1-2=-899/0, 2-3=-899/0, 3-4=-2816/0, 4-5=-2816/0,

5-6=-2445/0, 6-7=-925/0, 7-8=-926/0 14-15=0/0, 13-14=0/2084, 12-13=0/2445,

**BOT CHORD** 11-12=0/2445, 10-11=0/2445, 9-10=0/0 **WEBS** 

5-12=-72/0, 6-11=0/128, 5-13=-100/566, 4-13=-498/0, 3-13=0/822, 3-14=-1332/0, 2-14=-265/0. 1-14=0/1293. 6-10=-1700/0.

7-10=-212/144. 8-10=0/1248

# NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 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





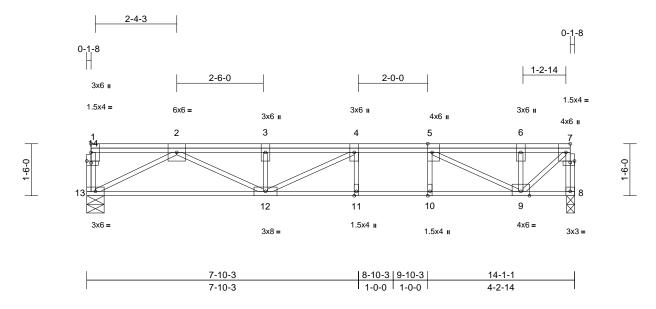




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F18	Floor	1	1	I58527955 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:23 ID:t1qAHUcg8y?TMvMpOr577XzIH5D-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.3

Plate Offsets (X, Y): [5:0-3-0,Edge], [7:0-3-0,Edge], [7:0-1-8,0-0-8], [14:0-1-8,0-0-10]

							-	-	-			-
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.10	11-12	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.15	11-12	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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) 8=0-2-12, 13=0-6-0

Max Grav 8=876 (LC 1), 13=869 (LC 1)

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

Tension

TOP CHORD 1-13=-122/0, 7-8=-863/0, 1-2=-6/0, 2-3=-2239/0, 3-4=-2239/0, 4-5=-2119/0,

5-6=-852/0, 6-7=-853/0

12-13=0/1365, 11-12=0/2119, 10-11=0/2119,

**BOT CHORD** 9-10=0/2119, 8-9=0/0 **WEBS** 

4-11=-56/5, 5-10=0/109, 4-12=-231/300, 3-12=-446/0. 2-12=0/981. 2-13=-1539/0.

5-9=-1417/0, 6-9=-237/96, 7-9=0/1149

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 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

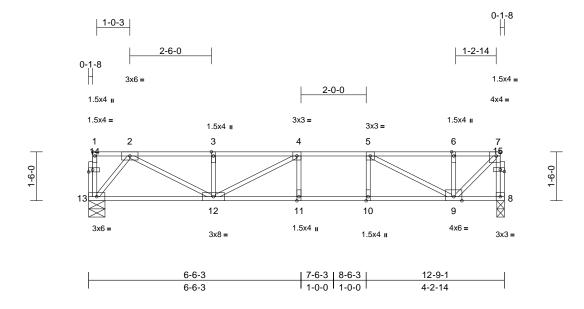




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F19	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:23  $ID: \_X750wmq4xedQvsJf4pA9HzIH50-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zQFfCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zQFfCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAffCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAffCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAffCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAffCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAffCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAffCPsB70Hq3NSgPqnWqqAffCPsB70Hq4WqqqAffCPsB70Hq4WqqqAffCPsB70Hq4WqqqAffCPsB70Hq4WqqqAffCPsB70Hq4WqqqAffCPsB70Hq4WqqqAffCPsB70Hq4WqqAffCPsB70Hq4WqqAffCPsB70Hq4WqqqAffCPsB70Hq4Wqq$ 

Page: 1



Scale = 1:35.3

Plate Offsets (X, Y): [1:Edge,0-0-12], [7:0-1-8,Edge], [14:0-1-8,0-0-12], [15:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.14	11-12	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.20	11-12	>769	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 69 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

8=0-2-12, 13=0-6-0 (size) Max Grav 8=785 (LC 1), 13=785 (LC 1)

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

Tension

1-13=-27/0, 7-8=-764/0, 1-2=-1/0,

2-3=-1584/0, 3-4=-1584/0, 4-5=-1726/0,

5-6=-737/0, 6-7=-737/0

**BOT CHORD** 12-13=0/618, 11-12=0/1726, 10-11=0/1726,

9-10=0/1726, 8-9=0/35

**WEBS** 4-11=-129/26, 5-10=0/191, 4-12=-383/18, 3-12=-374/0. 2-12=0/1096. 2-13=-966/0.

5-9=-1116/0, 6-9=-262/11, 7-9=0/997

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 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



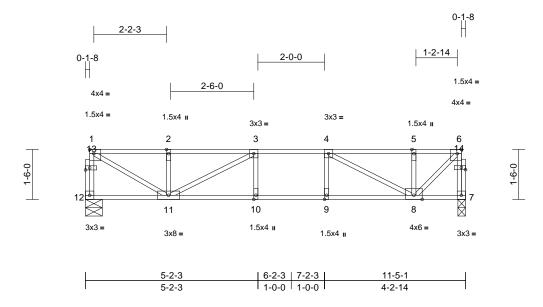




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F20	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:23  $ID: eqrdX1wMFd9wslmcMb1\_epzIH4q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fd$ 

Page: 1



Scale = 1:34.6

Plate Offsets (X, Y): [1:Edge,0-1-8], [6:0-1-8,Edge], [13:0-1-8,0-0-12], [14:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.09	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.12	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 7=0-2-12, 12=0-6-0 (size)

Max Grav 7=700 (LC 1), 12=700 (LC 1)

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

Tension

TOP CHORD 1-12=-691/0, 6-7=-689/0, 1-2=-1027/0,

2-3=-1027/0, 3-4=-1412/0, 4-5=-670/0,

5-6=-670/0

**BOT CHORD** 11-12=0/31, 10-11=0/1412, 9-10=0/1412,

8-9=0/1412, 7-8=0/31

**WEBS** 3-10=-69/65, 4-9=-5/131, 3-11=-537/0,

2-11=-356/0, 1-11=0/1159, 4-8=-838/0,

5-8=-279/0, 6-8=0/906

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 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

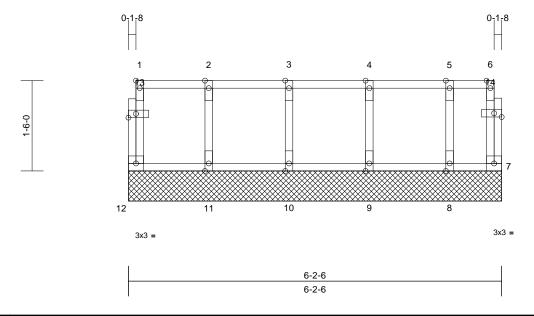






Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F21	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:23  Page: 1



Scale = 1:19.1

Plate Offsets (X, Y): [1:Edge,0-0-12], [13:0-1-8,0-0-12], [14:0-1-8,0-0-12]

		ı					-	-	-			
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	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	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 32 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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) 7=6-2-6, 8=6-2-6, 9=6-2-6,

10=6-2-6, 11=6-2-6, 12=6-2-6 7=34 (LC 1), 8=132 (LC 1), 9=176 Max Grav

(LC 1), 10=167 (LC 1), 11=170 (LC

1), 12=61 (LC 1)

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

Tension

1-12=-55/0, 6-7=-26/0, 1-2=-6/0, 2-3=-6/0,

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

**BOT CHORD** 11-12=0/6, 10-11=0/6, 9-10=0/6, 8-9=0/6,

WEBS 2-11=-151/0, 3-10=-150/0, 4-9=-157/0,

5-8=-122/0

#### NOTES 1) All plates are 1.5x4 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.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F22	Floor	1	1	Job Reference (optional)	8527959

8x8 =

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

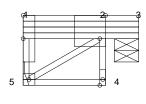
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:23 

Page: 1



3x12 II

3x3 =





1-9-3 2-5-11 1-9-3 0-8-8

1.5x4 II

Scale = 1:24.7

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	0.00	` 4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	0.00	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%F, 11%E

## LUMBER

2x4 SP No.2(flat) TOP CHORD BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 2-5-11 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3=0-6-4, 5= Mechanical Max Grav 3=144 (LC 1), 5=151 (LC 1)

(lb) - Maximum Compression/Maximum

**FORCES** Tension

1-5=-140/0, 2-4=0/11, 1-2=0/0, 2-3=0/0

**BOT CHORD** 4-5=0/0

WEBS 2-5=0/0

### NOTES

TOP CHORD

- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



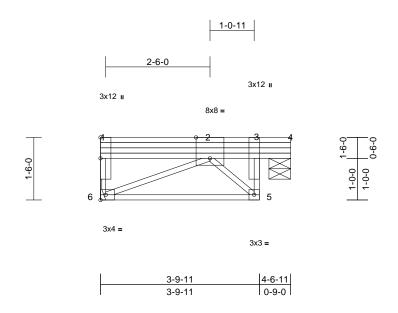




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F23	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:24 

Page: 1



Scale = 1:27.6

Plate Offsets (	(X, Y):	[2:0-4-0,Edge]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	0.00	` ź	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.10	Vert(CT)	-0.03	5-6	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 41 lb	FT = 20%F, 11%E

## LUMBER

2x4 SP No.2(flat) TOP CHORD BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=0-6-4, 6= Mechanical Max Grav 4=275 (LC 1), 6=284 (LC 1)

(lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-6=-140/0, 3-5=0/282, 1-2=0/0, 2-3=0/0,

3-4=0/0

**BOT CHORD** 5-6=0/253

WEBS 2-6=-280/0, 2-5=-361/0

## **NOTES**

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

LOAD CASE(S) Standard





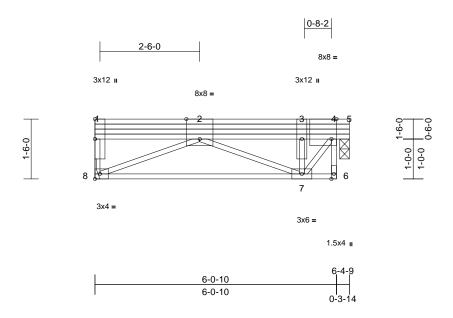




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F24	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:24 ID:kev9bi61vMinGXEi7Sdo\_OzIHRq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.9

Plate Offsets (X, Y): [2:0-4-0,Edge], [4:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	0.00	7-8	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.06	7-8	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 60 lb	FT = 20%F, 11%E

## LUMBER

2x4 SP No.2(flat) TOP CHORD BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS

**BRACING** 

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 **BOT CHORD** 

bracing. (size)

REACTIONS 5=0-2-14, 8= Mechanical Max Grav 5=395 (LC 1), 8=400 (LC 1) **FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-144/0, 4-6=-38/0, 1-2=0/0, 2-3=-357/0,

3-4=-357/0, 4-5=0/0

**BOT CHORD** 7-8=0/493, 6-7=0/0

WEBS 2-8=-543/0, 2-7=-150/0, 3-7=-373/0,

4-7=0/636

- NOTES 1) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24,2023



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

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

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

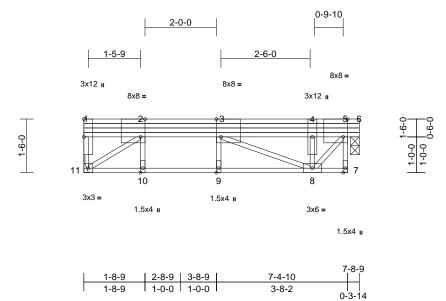
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F25	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:24 ID:6VO1c5cpjSKB8ajYOVrt?YzIHPu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.3

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	-0.01	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.02	8-9	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 72 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS

**BRACING** 

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 **BOT CHORD** 

bracing.

REACTIONS (size) 6=0-2-14, 11= Mechanical Max Grav 6=479 (LC 1), 11=484 (LC 1)

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

Tension

TOP CHORD 1-11=-38/92, 5-7=-2/0, 1-2=0/0, 2-3=-645/0,

3-4=-487/0, 4-5=-487/0, 5-6=0/0

**BOT CHORD** 10-11=0/643, 9-10=0/645, 8-9=0/643,

WEBS 2-10=0/38, 3-9=0/28, 2-11=-815/0,

3-8=-214/0, 4-8=-517/0, 5-8=0/793

## NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 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

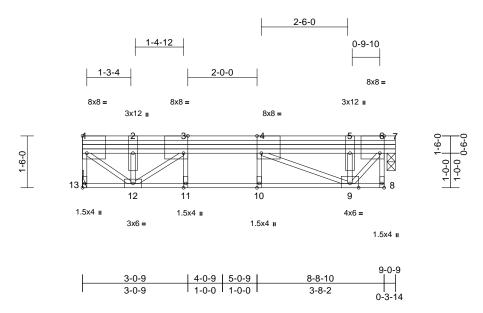




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F26	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:24 

Page: 1



Scale = 1:33.3

Plate Offsets (X, Y): [1:Edge,0-6-0], [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [8:Edge,0-0-12], [13:Edge,0-0-12]

				ł	-			-				-
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	-0.02	10	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.02	9-10	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 85 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(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=0-2-14, 13= Mechanical Max Grav 7=564 (LC 1), 13=569 (LC 1)

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

Tension

TOP CHORD 1-13=-560/0, 6-8=-1/0, 1-2=-545/0,

2-3=-545/0, 3-4=-977/0, 4-5=-575/0,

5-6=-575/0, 6-7=0/0

**BOT CHORD** 12-13=0/0, 11-12=0/975, 10-11=0/977,

9-10=0/975, 8-9=0/0 3-11=0/31, 4-10=0/33, 3-12=-567/0,

**WEBS** 2-12=-154/42, 1-12=0/715, 4-9=-446/0,

5-9=-519/0, 6-9=0/937

# NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 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

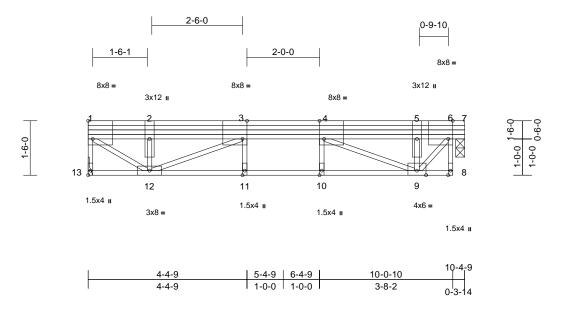




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F27	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:24 ID:YbwidhJJyHYP00rbWXtP4nzIHMO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.8

Plate Offsets (X, Y): [1:Edge,0-6-0], [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [13:Edge,0-0-12]

Loading	(nof)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	1./4	PLATES	GRIP
Loading	(psf)	Spacing	1-4-0	CSI		DELL	111	(100)	i/deli	L/u	PLATES	GKIF
TCLL	60.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.02	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.04	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(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=0-2-14, 13= Mechanical Max Grav 7=648 (LC 1), 13=653 (LC 1)

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

Tension

TOP CHORD 1-13=-646/0, 6-8=-1/0, 1-2=-789/0,

2-3=-789/0, 3-4=-1303/0, 4-5=-665/0,

5-6=-665/0, 6-7=0/0

**BOT CHORD** 12-13=0/0, 11-12=0/1300, 10-11=0/1303,

9-10=0/1300, 8-9=0/0

**WEBS** 3-11=0/34, 4-10=0/36, 3-12=-588/0, 2-12=-329/0, 1-12=0/976, 4-9=-702/0,

5-9=-524/0, 6-9=0/1082

# NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 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



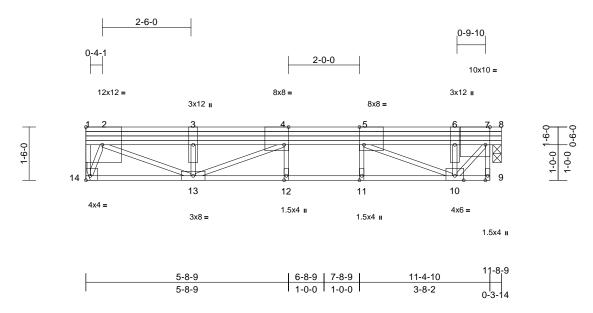




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F28	Floor	1	1	I58527965 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:25 ID:rDNngvcNJfZ?uihCwal13rzIHM0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.5

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	-0.04	12	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.06	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 109 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS

**BRACING** 

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 **BOT CHORD** 

bracing.

REACTIONS (size) 8=0-2-14, 14= Mechanical Max Grav 8=733 (LC 1), 14=738 (LC 1)

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

Tension

TOP CHORD 1-14=0/106, 7-9=-1/0, 1-2=0/0, 2-3=-1381/0,

3-4=-1381/0, 4-5=-1644/0, 5-6=-751/0,

6-7=-751/0, 7-8=0/0

**BOT CHORD** 13-14=0/321, 12-13=0/1642, 11-12=0/1644,

10-11=0/1641, 9-10=0/0

**WEBS** 4-12=0/28, 5-11=0/42, 4-13=-436/0,

3-13=-362/0, 2-13=0/1173, 2-14=-888/0, 5-10=-982/0, 6-10=-521/0, 7-10=0/1223

# NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 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



May 24,2023



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

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

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

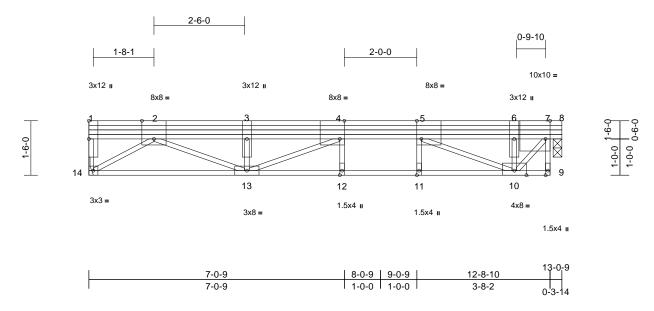
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F29	Floor	1	1	I58527966 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:25 ID:1b4NYTxxjF51F?qbZSobBlzIHLa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.8

Plate Offsets (X, Y): [2:0-4-0,Edge], [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.06	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.09	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 121 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(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) 8=0-2-14, 14= Mechanical Max Grav 8=817 (LC 1), 14=822 (LC 1)

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

Tension

TOP CHORD 1-14=-104/0, 7-9=0/1, 1-2=0/0, 2-3=-2012/0,

3-4=-2012/0, 4-5=-1982/0, 5-6=-839/0,

6-7=-839/0, 7-8=0/0

**BOT CHORD** 13-14=0/1030, 12-13=0/1981, 11-12=0/1982,

10-11=0/1978, 9-10=0/0

WEBS 4-12=0/18, 5-11=0/49, 4-13=-263/188, 3-13=-433/0, 2-13=0/1084, 2-14=-1243/0,

5-10=-1259/0, 6-10=-520/0, 7-10=0/1365

# NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 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

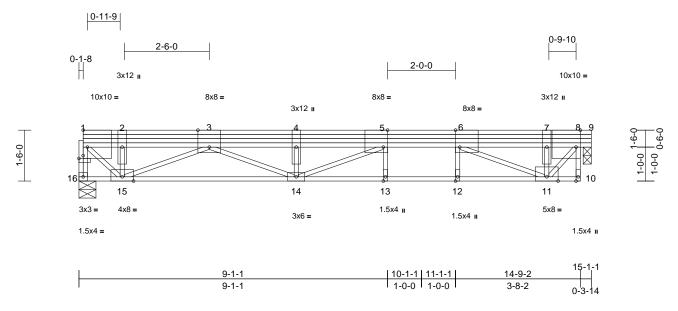




Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F30	Floor	1	1	Job Reference (optional)	8527967

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:25  $ID: Kx?00t1K3P\_1b4sxTQQEzDzIHLT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ 

Page: 1



Scale = 1:33.9

Plate Offsets (X, Y): [1:Edge,0-6-0], [1:0-1-8,0-1-0], [3:0-4-0,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [8:0-1-8,Edge]

				1	-		-	-	-			
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.09	13-14	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.14	13-14	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 141 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 9=0-2-14, 16=0-6-0 (size)

Max Grav 9=943 (LC 1), 16=948 (LC 1)

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

TOP CHORD 1-16=-961/0, 8-10=0/3, 1-2=-942/0,

2-3=-942/0, 3-4=-2943/0, 4-5=-2943/0, 5-6=-2485/0, 6-7=-968/0, 7-8=-968/0, 8-9=0/0

**BOT CHORD** 15-16=0/0, 14-15=0/2096, 13-14=0/2485,

12-13=0/2485, 11-12=0/2481, 10-11=0/0 5-13=-3/14, 6-12=0/57, 5-14=-31/637,

4-14=-556/0. 3-14=0/933. 3-15=-1272/0.

2-15=-375/0, 1-15=0/1354, 6-11=-1671/0,

7-11=-517/0, 8-11=0/1576

# NOTES

**WEBS** 

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard





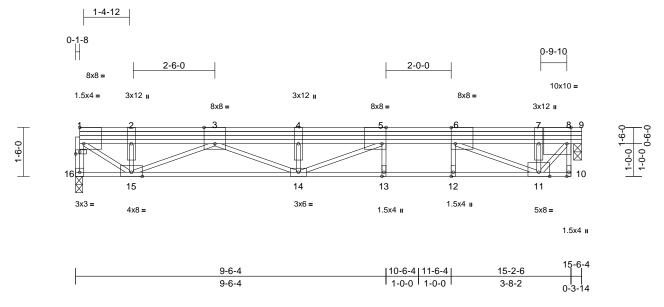




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F31	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:25 ID:LVzs4\_w6bRbVGaiXvyJz31zIHPU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.3

				1	-							
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.10	13-14	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.16	13-14	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 145 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 9=0-2-14, 16=0-2-8 (size)

Max Grav 9=970 (LC 1), 16=975 (LC 1)

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

TOP CHORD 1-16=-978/0, 8-10=0/3, 1-2=-1238/0, 2-3=-1238/0, 3-4=-3147/0, 4-5=-3147/0,

5-6=-2596/0, 6-7=-996/0, 7-8=-996/0, 8-9=0/0

**BOT CHORD** 15-16=0/0, 14-15=0/2345, 13-14=0/2596,

12-13=0/2596, 11-12=0/2592, 10-11=0/0

5-13=-5/13, 6-12=0/59, 5-14=0/735, 4-14=-577/0, 3-14=0/884, 3-15=-1219/0,

2-15=-356/0, 1-15=0/1547, 6-11=-1762/0,

7-11=-517/0, 8-11=0/1622

# NOTES

**WEBS** 

- Unbalanced floor live loads have been considered for 1) this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16, 9.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24,2023



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

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

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

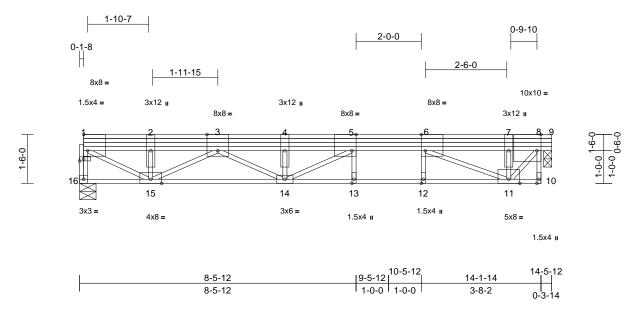
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F32	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:26 ID:LmUHeo7nagk5oBWpP17yFczIHPD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.3

Plate Offsets (X, Y): [1:	1:Edge,0-6-0], [1:0-1-8,0-0-	12], [3:0-4-0,Edge], [5:0-1-	-8,Edge], [6:0-1-8,Edge], [8:0-1	-8,Edge]
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Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.08	13-14	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	-0.12	13-14	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 136 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

9=0-2-14, 16=0-6-0 (size)

Max Grav 9=904 (LC 1), 16=909 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

TOP CHORD 1-16=-901/0, 8-10=0/2, 1-2=-1345/0, 2-3=-1345/0, 3-4=-2703/0, 4-5=-2703/0,

5-6=-2318/0, 6-7=-931/0, 7-8=-931/0, 8-9=0/0

**BOT CHORD** 15-16=0/0, 14-15=0/2127, 13-14=0/2318,

12-13=0/2318, 11-12=0/2314, 10-11=0/0

5-13=-4/13, 6-12=0/54, 5-14=-36/572,

4-14=-520/0, 3-14=0/664, 3-15=-903/0 2-15=-278/0, 1-15=0/1553, 6-11=-1528/0,

7-11=-522/0, 8-11=0/1515

# NOTES

**WEBS** 

- Unbalanced floor live loads have been considered for 1) this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

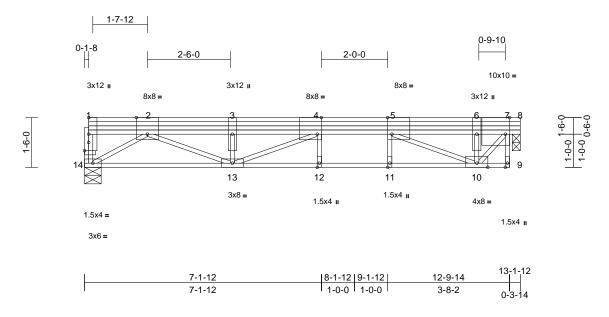




Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F33	Floor	1	1	I5852797 Job Reference (optional)	70

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:26 ID:5UU1hc7LBs\_vYITTx6a6IvzIHLL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.8

Plate Offsets (X, Y): [1:0-1-8,0-3-0], [2:0-4-0,Edge], [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.06	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.09	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

## LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 8=0-2-14, 14=0-6-0 (size)

Max Grav 8=820 (LC 1), 14=825 (LC 1)

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

Tension

TOP CHORD 1-14=-108/0, 7-9=0/2, 1-2=0/0, 2-3=-2031/0,

3-4=-2031/0, 4-5=-1992/0, 5-6=-841/0,

6-7=-841/0, 7-8=0/0

**BOT CHORD** 13-14=0/1050, 12-13=0/1992, 11-12=0/1992,

10-11=0/1989, 9-10=0/0

**WEBS** 4-12=0/18, 5-11=0/50, 4-13=-258/198, 3-13=-437/0. 2-13=0/1084. 2-14=-1258/0.

5-10=-1267/0, 6-10=-520/0, 7-10=0/1369

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



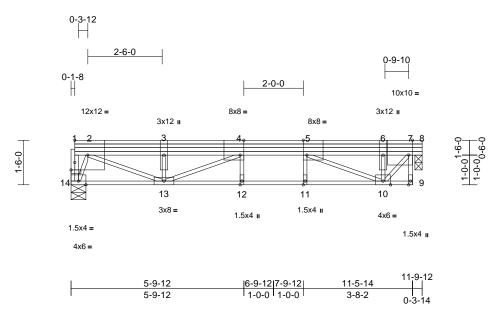




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F34	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:26 ID:verJyfC6mik2GDwdHNgWYAzIHLF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.8

Plate Offsets (X, Y): [1:0-1-8,0-3-0], [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	-0.04	12	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.06	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

8=0-2-14, 14=0-6-0 (size) Max Grav 8=735 (LC 1), 14=740 (LC 1)

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

Tension

TOP CHORD 1-14=0/109, 7-9=-1/0, 1-2=0/0, 2-3=-1399/0,

3-4=-1399/0, 4-5=-1654/0, 5-6=-754/0,

6-7=-754/0, 7-8=0/0

**BOT CHORD** 13-14=0/351, 12-13=0/1652, 11-12=0/1654,

10-11=0/1651, 9-10=0/0

**WEBS** 4-12=0/28, 5-11=0/43, 4-13=-431/0, 3-13=-359/0. 2-13=0/1160. 2-14=-904/0.

5-10=-990/0, 6-10=-521/0, 7-10=0/1227

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



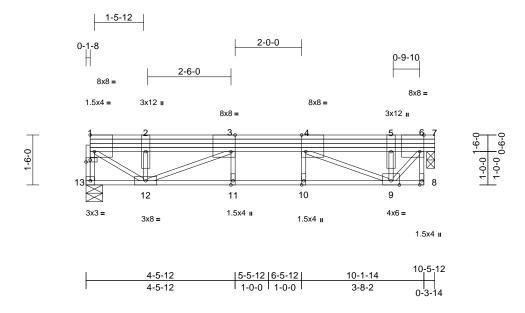




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F35	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:26  $ID: koCaCiGtMYVC\_9OnednwnRzIHL9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:34.6

Plate Offsets (X, Y): [1:Edge,0-6-0], [1:0-1-8,0-0-12], [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.02	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.04	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 7=0-2-14, 13=0-6-0 (size)

Max Grav 7=651 (LC 1), 13=656 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-13=-648/0, 6-8=-1/0, 1-2=-806/0,

2-3=-806/0, 3-4=-1313/0, 4-5=-667/0,

5-6=-667/0, 6-7=0/0 **BOT CHORD** 

12-13=0/0, 11-12=0/1311, 10-11=0/1313, 9-10=0/1310, 8-9=0/0

**WEBS** 3-11=0/34, 4-10=0/36, 3-12=-584/0,

2-12=-330/0, 1-12=0/990, 4-9=-710/0,

5-9=-524/0, 6-9=0/1086

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



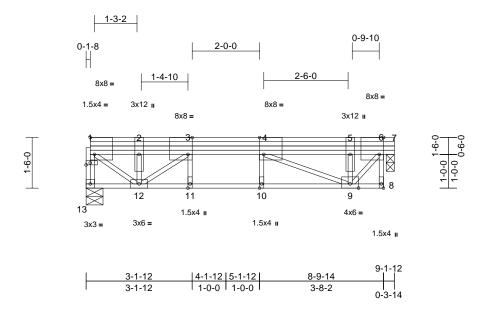




Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F36	Floor	1	1	Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:27 ID:ZyZrTILdxOFLi4rw\_uuK1izIHL3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.2

Plate Offsets (X, Y): [1:Edge,0-6-0], [1:0-1-8,0-0-12], [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [8:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	-0.02	10	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.02	9-10	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 87 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 7=0-2-14, 13=0-6-0 (size)

Max Grav 7=566 (LC 1), 13=571 (LC 1)

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

Tension

TOP CHORD 1-13=-562/0, 6-8=-1/0, 1-2=-564/0,

2-3=-564/0, 3-4=-987/0, 4-5=-578/0,

5-6=-578/0, 6-7=0/0

**BOT CHORD** 12-13=0/0, 11-12=0/985, 10-11=0/987,

9-10=0/985, 8-9=0/0

**WEBS** 3-11=0/31, 4-10=0/33, 3-12=-560/0,

2-12=-157/42, 1-12=0/729, 4-9=-453/0,

5-9=-519/0, 6-9=0/941

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

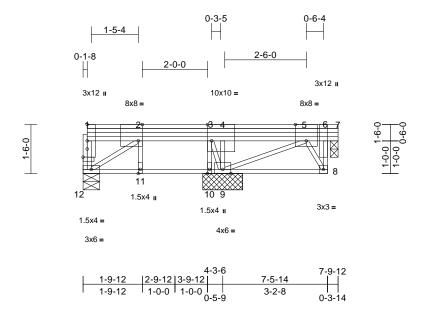




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F37	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:27 ID:hjNBm0iStc15Jh8hlBRNF1zIHKb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.3

Plate Offsets (X, Y): [1:0-1-8,0-3-0], [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-4-0,Edge]

		i		1			-				i	
Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	0.00	11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.05	Vert(CT)	-0.01	8-9	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		·					Weight: 74 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

# BRACING

**FORCES** 

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

REACTIONS (size)

7=0-2-14, 9=1-2-11, 10=1-2-11,

12=0-6-0

7=217 (LC 5), 9=397 (LC 12), Max Grav 10=123 (LC 3), 12=265 (LC 3)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-128/0, 6-8=0/228, 1-2=0/0, 2-3=-171/0,

3-4=-108/0, 4-5=-108/0, 5-6=0/0, 6-7=0/0 **BOT CHORD** 11-12=0/170, 10-11=0/171, 9-10=0/174,

8-9=0/114 **WEBS** 

2-11=0/27, 3-10=-121/0, 4-9=-192/27, 2-12=-213/0, 3-9=-225/0, 5-9=-103/69,

### NOTES

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

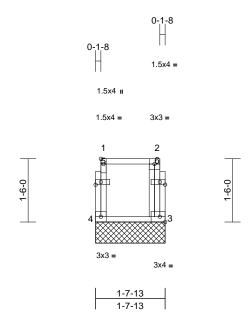




Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F38	Floor Supported Gable	1	1	Job Reference (optional)	158527975

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:27 ID: VtkS13nDTSoE1cbr5SYnUIzIHKV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffCPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJCPsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqNL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqNL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqNL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqNL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqNL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqNL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqNL8w3uITXbGKWrCDoi7J4ZGCPsB70Hq3NSqPqNL8w3uITXbGCPsB70Hq3NSqPqNL8w3uITXbGCPsB70Hq3NSqPqNL8w3uITXbGCPsB70Hq3NSqPqNL8w3uITXbGCPsB70Hq3NSqPqNL8wq0NAQqqNL8wq0NAQqqNAQqqNAQqqNAQqqNAQqqNAQqqNAQqqqNAQqqNAQqqNAQqqNAQqqqNAQqqqNAQqqqNAQqqqNAQqqqNAQq

Page: 1



Scale = 1:27.3

Plate Offsets (X, Y): [1:Edge,0-0-12], [5:0-1-8,0-0-12], [6:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 13 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

# BRACING

TOP CHORD Structural wood sheathing directly applied or 1-7-13 oc purlins, except end verticals.

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

bracing. REACTIONS

3=1-7-13, 4=1-7-13 (size) Max Grav 3=85 (LC 1), 4=78 (LC 1)

**FORCES** Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-4=-68/0, 2-3=-77/0, 1-2=-13/0

**BOT CHORD** 3-4=0/13

#### NOTES

1) N/A

- 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.

LOAD CASE(S) Standard

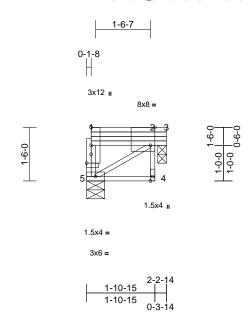




	Job	Truss	Truss Type	Qty	Ply		
١	P210577 - Floor	F39	Floor	1	1	Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:27 ID:iMSPltNdvn1\_aRkindF45IzIGXN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.3

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.Ó	Plate Grip DOL	1.00	TC	0.01	Vert(LL)	0.00	` 4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	0.00	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3=0-2-14, 5=0-6-0

Max Grav 3=129 (LC 1), 5=133 (LC 1)

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

1-5=-122/0, 2-4=0/12, 1-2=0/0, 2-3=0/0

TOP CHORD **BOT CHORD** 4-5=0/0

WFBS 2-5=0/0

#### **NOTES**

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

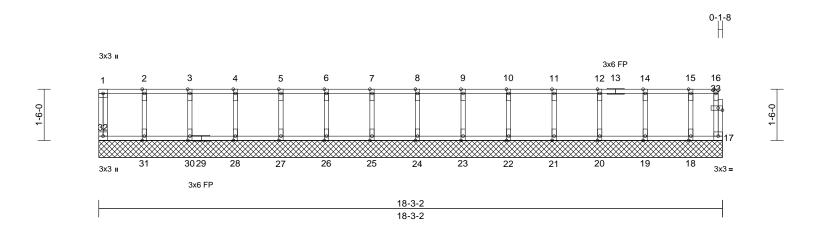
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F40	Floor Supported Gable	1	1	Job Reference (optional)	158527977

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:27 ID:IVCIuC5CPRN9?fhGYTHk4GzIH3J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.7

Plate Offsets (X, Y): [33:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	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	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 85 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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=18-3-2, 18=18-3-2, 19=18-3-2, 20=18-3-2, 21=18-3-2, 22=18-3-2, 23=18-3-2, 24=18-3-2, 25=18-3-2, 26=18-3-2, 27=18-3-2, 28=18-3-2, 30=18-3-2, 31=18-3-2, 32=18-3-2

17=38 (LC 1), 18=136 (LC 1), Max Grav

19=176 (LC 1), 20=167 (LC 1), 21=169 (LC 1), 22=169 (LC 1), 23=169 (LC 1), 24=169 (LC 1), 25=169 (LC 1), 26=169 (LC 1), 27=169 (LC 1), 28=169 (LC 1), 30=169 (LC 1), 31=169 (LC 1),

32=68 (LC 1)

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

Tension

TOP CHORD 1-32=-61/0, 16-17=-30/0, 1-2=-6/0, 2-3=-6/0, 3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0,

7-8=-6/0. 8-9=-6/0. 9-10=-6/0. 10-11=-6/0. 11-12=-6/0, 12-14=-6/0, 14-15=-6/0,

15-16=-6/0

BOT CHORD 31-32=0/6, 30-31=0/6, 28-30=0/6, 27-28=0/6,

26-27=0/6, 25-26=0/6, 24-25=0/6, 23-24=0/6, 22-23=0/6, 21-22=0/6, 20-21=0/6, 19-20=0/6,

18-19=0/6, 17-18=0/6 WFBS

2-31=-151/0, 3-30=-152/0, 4-28=-151/0, 5-27=-151/0, 6-26=-151/0, 7-25=-151/0,

8-24=-151/0, 9-23=-151/0, 10-22=-151/0, 11-21=-151/0, 12-20=-150/0, 14-19=-157/0,

15-18=-125/0

#### **NOTES**

1)

- All plates are 1.5x4 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



May 24,2023

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

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

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

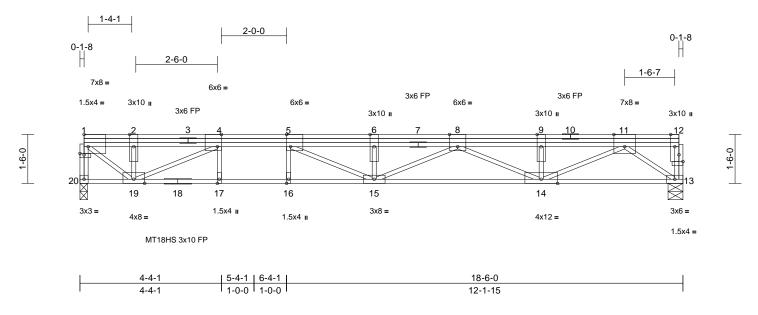
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F41	Floor	17	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:28 ID:rfH2Ww6udEzE4Z6PS6nQT\_zIH2?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.3

Plate Offsets (X, Y): [1:Edge,0-4-8], [1:0-1-8,0-0-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [8:0-3-0,Edge], [11:0-4-0,Edge], [12:0-1-8,0-2-8]	Plate Offsets (X, Y):	[1:Edge,0-4-8], [1:	0-1-8,0-0-8], [4:0-	1-8,Edge], [5:0-1-	-8,Edge], [8:0-3	3-0,Edge], [11:0-4	-0,Edge], [12:0-1-8,0-2-8]
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	( 0		4.4.0	001		5		(1 )	1/1 (1		DI 4750	
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	ın	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.17	15-16	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.27	15-16	>824	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 148 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 13=0-5-8, 20=0-2-12 (size)

Max Grav 13=1156 (LC 1), 20=1156 (LC 1)

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

TOP CHORD 1-20=-1146/0, 12-13=-86/0, 1-2=-1273/0,

2-4=-1273/0, 4-5=-3320/0, 5-6=-4325/0, 6-8=-4325/0, 8-9=-3040/0, 9-11=-3040/0,

11-12=0/0

**BOT CHORD** 19-20=0/0, 17-19=0/3320, 16-17=0/3320,

15-16=0/3320, 14-15=0/3813, 13-14=0/1414 4-17=0/78, 5-16=-25/7, 4-19=-2267/0. 2-19=-209/173, 1-19=0/1646, 5-15=0/1240,

6-15=-672/0, 8-15=0/569, 8-14=-860/0, 9-14=-355/0, 11-14=0/1813, 11-13=-1760/0

#### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
- 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



May 24,2023



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

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

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

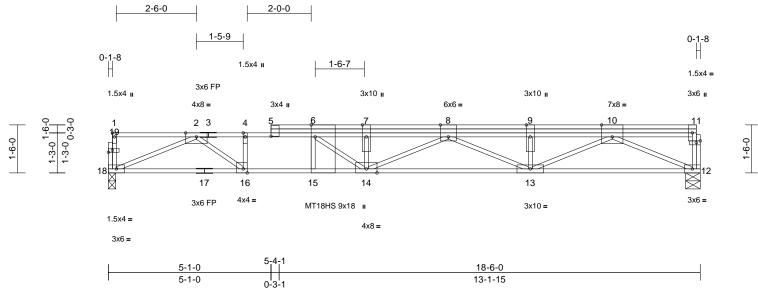
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F42	Floor	8	1	Job Reference (optional)	

Run: 8.63 S Feb 9 2023 Print: 8.630 S Feb 9 2023 MiTek Industries. Inc. Wed May 24 12:28:31 

Page: 1



Scale = 1:36

Plate Offsets (X, Y): [1:Edge,0-0-12], [4:0-0-4,0-9-11], [8:0-3-0,Edge], [10:0-4-0,Edge], [11:0-1-8,0-0-10], [15:0-4-8,Edge], [16:0-1-8,Edge], [19:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.16	14-15	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.27	13-14	>812	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 131 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

# BRACING

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

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

bracing.

REACTIONS 12=1156/0-5-8, 18=1149/0-2-12 (lb/size)

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

TOP CHORD 2-3=-3345/0, 3-4=-3345/0, 4-5=-3395/0,

5-6=-3345/0, 6-7=-4216/0, 7-8=-4216/0,

8-9=-3479/0, 9-10=-3479/0

**BOT CHORD** 17-18=0/2347, 16-17=0/2347, 15-16=0/3345, 14-15=0/3345, 13-14=0/3996, 12-13=0/2024

4-16=-681/0, 2-18=-2546/0, 2-16=0/1300,

9-13=-379/0, 7-14=-747/0, 6-14=0/1258,

8-14=0/304, 8-13=-576/0, 10-13=0/1619,

10-12=-2242/0

#### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
- 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

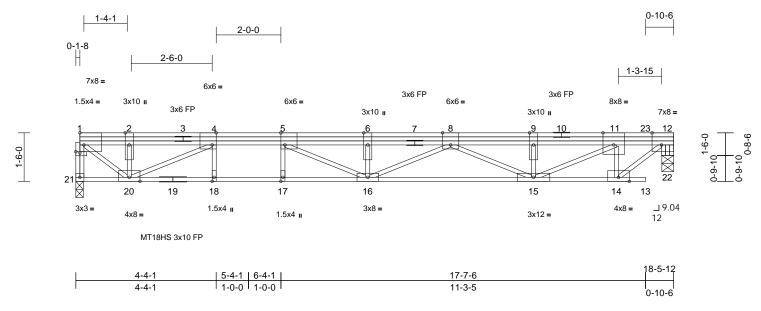




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F43	Floor	14	1	Job Reference (optional)

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:28 ID:M52gS9\_oCros0QZcyjKen9zIGko-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.6

Plate Offsets (X, Y): [1:Edge,0-4-8], [1:0-1-8,0-0-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [8:0-3-0,Edge], [11:0-4-0,Edge], [12:0-3-8,Edge]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.17	16-17	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.26	15-16	>832	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	22	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 146 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 21=0-2-12, 22=0-4-6 (size)

Max Grav 21=1150 (LC 1), 22=1142 (LC 1)

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

1-21=-1141/0, 1-2=-1267/0, 2-4=-1267/0,

4-5=-3298/0, 5-6=-4288/0, 6-8=-4288/0, 8-9=-2973/0, 9-11=-2973/0, 11-12=-1339/0,

12-22=-1142/0

**BOT CHORD** 20-21=0/0, 18-20=0/3298, 17-18=0/3298,

16-17=0/3298, 15-16=0/3763, 14-15=0/1383,

13-14=0/0

WEBS 4-18=0/78, 5-17=-26/5, 4-20=-2249/0,

2-20=-211/169, 1-20=0/1638, 5-16=0/1220, 6-16=-667/0, 8-16=0/584, 8-15=-878/0, 9-15=-353/0, 11-15=0/1777, 11-14=-1037/0,

12-14=0/1709

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. Provide mechanical connection (by others) of truss to
- bearing plate at joint(s) 21. 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



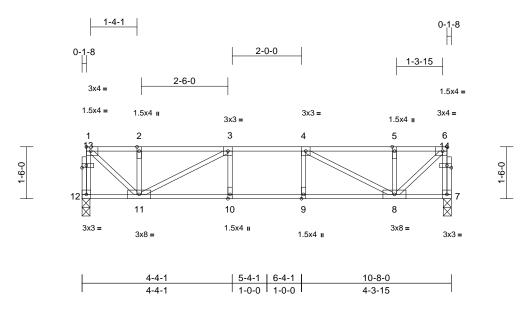




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F43A	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:29  $ID: Iy9RIZhtQ\_5\_wQ5jYKgIh5zIH3r-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:33.3

Plate Offsets (X, Y): [6:0-1-8,Edge], [13:0-1-8,0-0-12], [14:0-1-8,0-0-12]

		i		1	-						i	
Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.06	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.07	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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) 7=0-2-12, 12=0-2-12

Max Grav 7=653 (LC 1), 12=653 (LC 1)

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

Tension

TOP CHORD 1-12=-647/0, 6-7=-647/0, 1-2=-669/0,

2-3=-669/0, 3-4=-1236/0, 4-5=-665/0,

5-6=-665/0

**BOT CHORD** 11-12=0/29, 10-11=0/1236, 9-10=0/1236,

8-9=0/1236, 7-8=0/29

**WEBS** 3-10=-32/93, 4-9=-32/93, 3-11=-662/0,

2-11=-296/0, 1-11=0/877, 4-8=-665/0,

5-8=-296/0, 6-8=0/875

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
- 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.

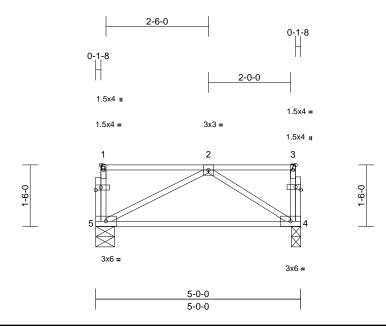
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F44	Floor	4	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:29 ID: am 0 E 5 LMx nhhp AHXXT 9 hQ 5 Pz IH4G-R f C? Ps B70 Hq 3 NSg Pq nL8w 3 u ITX b G KW r CDoi 7 J4z J C? full should be a simple of the control of the c Page: 1



Scale = 1:28.1

Plate Offsets (X, Y): [1:Edge,0-0-12], [6:0-1-8,0-0-12], [7:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.08	4-5	>735	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

# BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS 4=0-2-12, 5=0-5-8 (size)

Max Grav 4=294 (LC 1), 5=294 (LC 1)

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

Tension

TOP CHORD 1-5=-116/0, 3-4=-80/0, 1-2=-5/0, 2-3=-4/0 **BOT CHORD** 4-5=0/285

WFBS

2-5=-316/0, 2-4=-335/0

### **NOTES**

- 1) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard





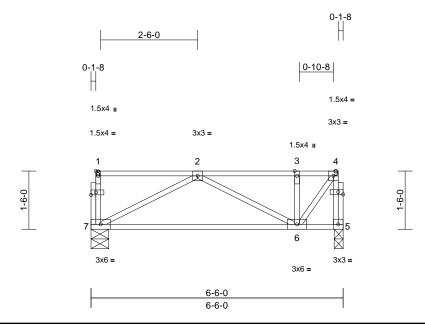




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F45	Floor	5	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:29 

Page: 1



Scale = 1:29.7

Plate Offsets (X, Y): [1:Edge,0-0-12], [8:0-1-8,0-0-12], [9:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.Ó	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	0.00	6-7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.06	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

5=0-2-12, 7=0-5-8 (size)

Max Grav 5=389 (LC 1), 7=389 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** 

Tension 1-7=-114/0, 4-5=-415/0, 1-2=-5/0, 2-3=-308/0,

TOP CHORD

3-4=-308/0 BOT CHORD 6-7=0/477, 5-6=0/19

WEBS 2-7=-532/0, 2-6=-191/0, 3-6=-226/0,

4-6=0/492

## NOTES

- Provide mechanical connection (by others) of truss to 1) bearing plate at joint(s) 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.

LOAD CASE(S) Standard



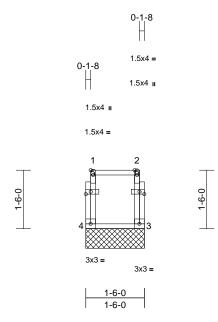




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F46	Floor Supported Gable	2	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:29 ID:qNjlxlp4y2V4o1LtVj3p4izIGjj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.5

Plate Offsets (X, Y): [1:Edge,0-0-12], [5:0-1-8,0-0-12], [6:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 11 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

#### BRACING

TOP CHORD Structural wood sheathing directly applied or

1-6-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3=1-6-0, 4=1-6-0 Max Grav 3=72 (LC 1), 4=72 (LC 1)

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

Tension

TOP CHORD 1-4=-64/0, 2-3=-64/0, 1-2=-10/0

**BOT CHORD** 3-4=0/10

- 1) 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.

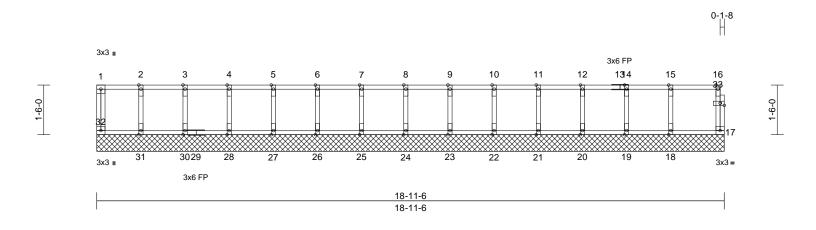
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F47	Floor Supported Gable	1	1	Job Reference (optional)	8527985

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:29 

Page: 1



Scale = 1:34.8

Plate Offsets (X, Y): [33:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	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	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 87 lb	FT = 20%F, 11%E

LUMBER TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS

2x4 SP No.2(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=18-11-6, 18=18-11-6, 19=18-11-6, 20=18-11-6, 21=18-11-6, 22=18-11-6, 23=18-11-6, 24=18-11-6, 25=18-11-6, 26=18-11-6,

27=18-11-6, 28=18-11-6, 30=18-11-6. 31=18-11-6.

32=18-11-6

17=83 (LC 1), 18=187 (LC 1), Max Grav 19=164 (LC 1), 20=170 (LC 1),

21=169 (LC 1), 22=169 (LC 1), 23=169 (LC 1), 24=169 (LC 1), 25=169 (LC 1), 26=169 (LC 1), 27=169 (LC 1), 28=168 (LC 1),

30=171 (LC 1), 31=159 (LC 1), 32=76 (LC 1)

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

Tension

1-32=-65/0, 16-17=-74/0, 1-2=-12/0, TOP CHORD

2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0, 7-8=-12/0, 8-9=-12/0, 9-10=-12/0,

10-11=-12/0, 11-12=-12/0, 12-14=-12/0, 14-15=-12/0, 15-16=-12/0

BOT CHORD 31-32=0/12, 30-31=0/12, 28-30=0/12,

27-28=0/12, 26-27=0/12, 25-26=0/12, 24-25=0/12, 23-24=0/12, 22-23=0/12, 21-22=0/12, 20-21=0/12, 19-20=0/12,

18-19=0/12, 17-18=0/12

**WEBS** 

2-31=-146/0, 3-30=-153/0, 4-28=-151/0, 5-27=-151/0, 6-26=-151/0, 7-25=-151/0, 8-24=-151/0, 9-23=-151/0, 10-22=-151/0, 11-21=-151/0, 12-20=-152/0, 14-19=-147/0, 15-18=-167/0

#### **NOTES**

- All plates are 1.5x4 MT20 unless otherwise indicated.
- 1) 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



May 24,2023





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

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

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

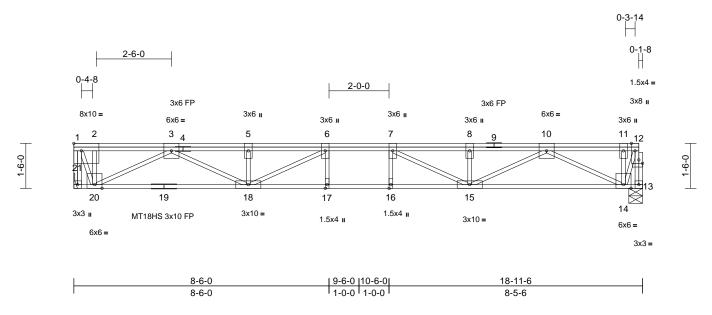
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F48	Floor	14	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:30 ID:c\_IUukkl2P4Hwj9TygRe9kzIGiX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.4

Plate Offsets (X, Y): [1:Edge,0-3-0], [12:0-1-8,0-1-6]

							-				_	
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.16	16-17	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.26	16-17	>867	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%F, 11%E

6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

LUMBER TOP CHORD

2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 13=0-5-8, 21= Mechanical (size)

Max Grav 13=1184 (LC 1), 21=1184 (LC 1)

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

Tension

TOP CHORD 1-21=-1228/0, 12-13=-1234/0, 1-2=-562/0,

2-3=-562/0, 3-5=-3622/0, 5-6=-3622/0, 6-7=-4163/0, 7-8=-3602/0, 8-10=-3602/0,

10-11=-518/0, 11-12=-513/0

**BOT CHORD** 20-21=0/0, 18-20=0/2351, 17-18=0/4163,

16-17=0/4163, 15-16=0/4163, 14-15=0/2320,

13-14=0/0

WEBS 6-17=-18/62, 7-16=-17/64, 6-18=-903/0,

5-18=-396/0, 3-18=0/1428, 3-20=-2010/0, 2-20=-306/0, 1-20=0/1426, 7-15=-919/0, 8-15=-394/0, 10-15=0/1441, 10-14=-2024/0,

11-14=-291/0, 12-14=0/1405

#### NOTES

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



May 24,2023

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

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

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

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



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F49	Floor	21	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:30 ID:Lb66?4nenXIVbIQCzB8Z1BzIGso-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

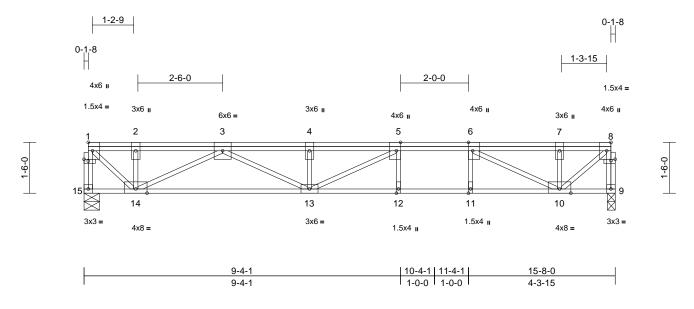


Plate Offsets (X, Y): [1:0-1-8,0-0-10], [5:0-3-0,Edge], [6:0-3-0,Edge], [8:0-3-0,Edge], [8:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.14	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.21	12-13	>870	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 9=0-2-12, 15=0-5-8 (size)

Max Grav 9=976 (LC 1), 15=976 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

TOP CHORD 1-15=-981/0, 8-9=-960/0, 1-2=-1009/0, 2-3=-1008/0, 3-4=-2911/0, 4-5=-2911/0,

5-6=-2527/0, 6-7=-995/0, 7-8=-996/0 14-15=0/0, 13-14=0/2186, 12-13=0/2527,

**BOT CHORD** 11-12=0/2527, 10-11=0/2527, 9-10=0/0 **WEBS** 

5-13=-98/585, 4-13=-501/0, 3-13=0/815,

3-14=-1323/0, 2-14=-268/0, 1-14=0/1369 6-10=-1712/0, 7-10=-216/141, 8-10=0/1308,

5-12=-74/0. 6-11=0/129

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 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





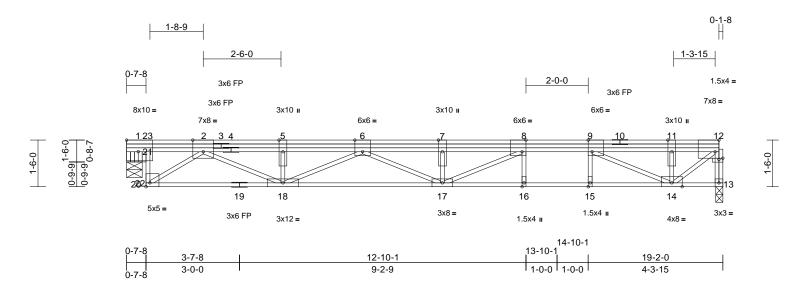




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F50	Floor	11	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:30 ID:dLxckom41WnDcn8pR1SZ6fzIGhC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37

Plate Offsets (X, Y): [1:Edge,0-4-8], [2:0-4-0,Edge], [6:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge], [12:0-1-8,0-0-8], [20:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.18	16-17	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.29	16-17	>782	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 152 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 13=0-2-12, 22=0-6-0 (size)

Max Grav 13=1178 (LC 1), 22=1182 (LC 1)

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

Tension 20-21=0/1139, 1-21=0/1219, 12-13=-1168/0,

1-2=-95/0, 2-5=-3295/0, 5-6=-3295/0,

6-7=-4486/0, 7-8=-4486/0, 8-9=-3406/0,

9-11=-1289/0, 11-12=-1289/0

**BOT CHORD** 18-20=0/1700, 17-18=0/4012, 16-17=0/3406, 15-16=0/3406, 14-15=0/3406, 13-14=0/0

WEBS 8-16=-26/6. 9-15=0/80. 8-17=0/1319.

7-17=-688/0. 6-17=0/528. 6-18=-797/0. 5-18=-366/0, 2-18=0/1778, 2-20=-1954/0,

9-14=-2344/0, 11-14=-204/184, 12-14=0/1671, 1-22=-1220/0

## NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24,2023



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

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

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



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F51	Floor	9	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:30 ID:ZXefswPJYoSiTwi?1fv?lqzIGgN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

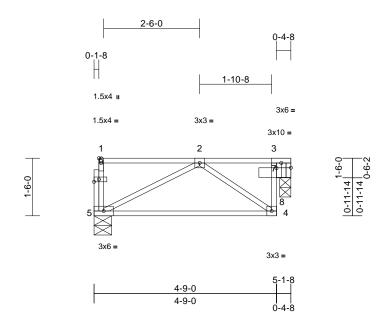


Plate Offsets (X, Y): [1:Edge,0-0-12], [6:0-1-8,0-0-12], [7:0-4-8,0-0-2]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	0.00	4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.07	4-5	>846	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

#### BRACING

TOP CHORD Structural wood sheathing directly applied or

5-1-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 5=0-5-8, 8=0-3-8 (size) Max Grav 5=295 (LC 1), 8=276 (LC 1)

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

Tension

TOP CHORD 1-5=-116/0, 4-7=0/207, 3-7=0/207, 1-2=-5/0, 2-3=-38/0

4-5=0/288

BOT CHORD WEBS 2-5=-319/0, 2-4=-306/0, 3-8=-315/0

#### NOTES

- 1) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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.

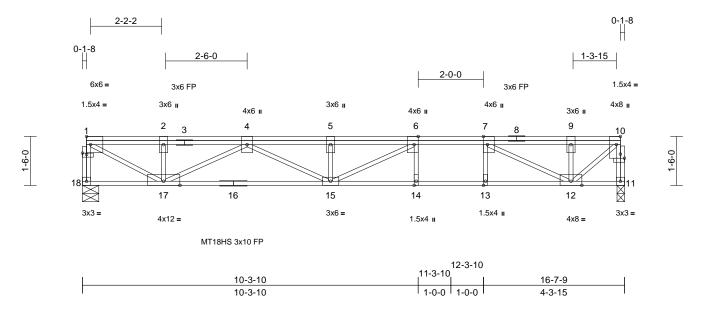
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F52	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:31 ID:7X?F034VuN8GVTAjQAJSOPzEGAM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35.3

Plate Offsets (X, Y): [1:0-1-8,0-0-8], [6:0-3-0,Edge], [7:0-3-0,Edge], [10:0-3-0,Edge], [10:0-1-8,0-1-8]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.Ó	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.17	1 <del>4</del> -15	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.26	14-15	>755	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

#### BRACING

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

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

bracing.

REACTIONS 11=0-2-12, 18=0-6-0 (size)

Max Grav 11=1037 (LC 1), 18=1037 (LC 1)

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

TOP CHORD 1-18=-1028/0, 10-11=-1019/0, 1-2=-1660/0, 2-4=-1659/0, 4-5=-3335/0, 5-6=-3335/0,

6-7=-2766/0, 7-9=-1053/0, 9-10=-1054/0 17-18=0/0, 15-17=0/2708, 14-15=0/2766,

13-14=0/2766, 12-13=0/2766, 11-12=0/0

6-14=-89/0, 7-13=0/144, 6-15=-2/783, 5-15=-535/0, 4-15=0/704, 4-17=-1179/0.

2-17=-314/0, 1-17=0/1889, 7-12=-1916/0,

9-12=-200/175, 10-12=0/1383

## NOTES

**WEBS** 

**BOT CHORD** 

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
- 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.

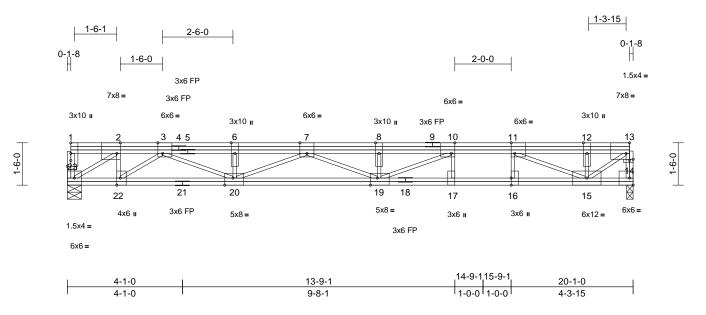
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F53	Floor	1	1	I58527991 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:31 ID:JfAPJqDPIIWiK9WqZ\_01LjzEGAB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.9

[1:0-1-8,0-2-8], [2:0-1-8,Edge], [3:0-2-0,Edge], [7:0-3-0,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [13:0-1-8,Edge], [13:0-1-8,0-0-8], [16:0-3-0,Edge], [19:0-3-0,Edge], Plate Offsets (X, Y): [20:0-3-8,Edge], [22:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.17	17-19	>999	480	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.27	17-19	>883	480		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 189 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) WEBS 2x4 SP No.2(flat) OTHERS 2x4 SP No.2(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 14=0-2-12, 23=0-6-0 (size)

Max Grav 14=1252 (LC 1), 23=1259 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-23=-89/0, 13-14=-1231/0, 1-2=0/5, TOP CHORD

2-3=-1592/0, 3-6=-4291/0, 6-7=-4291/0, 7-8=-5225/0, 8-10=-5225/0, 10-11=-3928/0,

11-12=-1446/0, 12-13=-1446/0

BOT CHORD 22-23=0/1597, 20-22=0/2830, 19-20=0/4989,

17-19=0/3928, 16-17=0/3928, 15-16=0/3928,

14-15=0/0

**WEBS** 10-17=-188/0, 11-16=0/237, 10-19=0/1549,

8-19=-588/0, 7-19=0/307, 7-20=-770/0, 6-20=-304/0, 3-20=0/1613, 3-22=-1545/0, 2-22=0/843, 2-23=-1906/0, 11-15=-2724/0,

12-15=-195/165, 13-15=0/1837

#### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Provide mechanical connection (by others) of truss to 2) bearing plate at joint(s) 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F54	Floor	1	1	I58527992 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:31 ID:10W1XZBevq3ZNCT9cjRFR5zEG7e-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

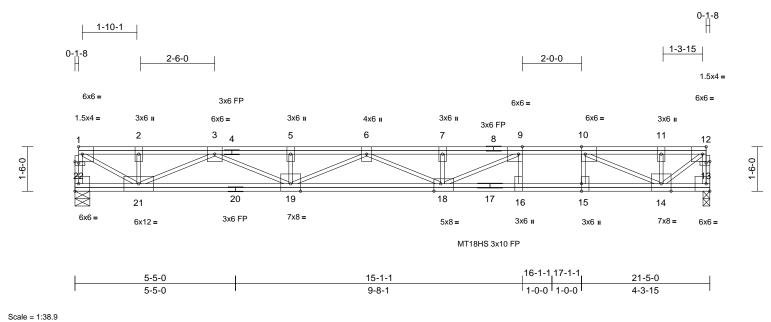


Plate Offsets (X, Y): [1:0-1-8,0-0-8], [9:0-1-8,Edge], [10:0-1-8,Edge], [12:0-1-8,Edge], [12:0-1-8,0-0-8], [15:0-3-0,Edge], [18:0-2-12,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.26	16-18	>967	480	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.42	16-18	>612	480	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 171 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

13=0-2-12, 22=0-6-0 (size) Max Grav 13=1341 (LC 1), 22=1341 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-1334/0, 12-13=-1275/0, 1-2=-2018/0, 2-3=-2017/0, 3-5=-5090/0, 5-6=-5090/0,

6-7=-5653/0, 7-9=-5653/0, 9-10=-4155/0,

10-11=-1415/0, 11-12=-1416/0

**BOT CHORD** 21-22=0/0, 19-21=0/3848, 18-19=0/5620,

16-18=0/4155, 15-16=0/4155, 14-15=0/4155,

13-14=0/0

WEBS 9-16=-500/0, 10-15=0/564, 9-18=0/1778,

7-18=-516/0, 6-18=-30/198, 6-19=-589/0, 5-19=-297/0, 3-19=0/1382, 3-21=-2037/0, 2-21=-265/0, 1-21=0/2356, 10-14=-3035/0,

11-14=-175/178, 12-14=0/1822

#### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated. All plates are 3x6 MT20 unless otherwise indicated.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

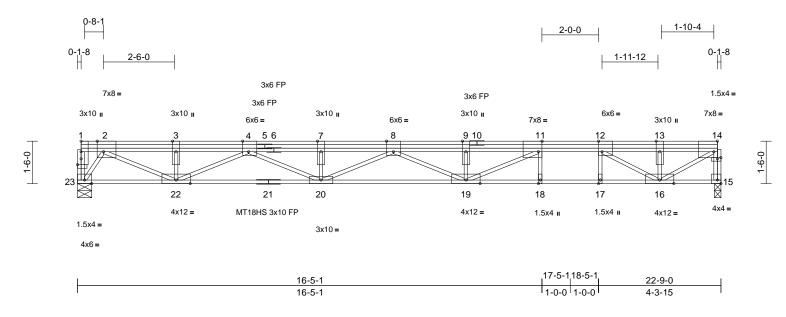




Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F55	Floor	1	1	Job Reference (optional)	7993

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:32 ID: Hqg8hu6xnUme61sydOJJ3KzEG6R-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full fill for the control of the

Page: 1



Scale = 1:40.7

Plate Offsets (X, Y): [1:0-	-1-8,0-2-8], [2:0-2-12,Edge], [4:0-	2-8,Edge], [8:0-3-0,Edge], [11:0-1-8,I	Edge], [12:0-1-8,Edge], [14:0-1-8,I	Edge], [14:0-1-8,0-0-8], [15:Edge,0-1-8]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.32	19-20	>832	480	MT18HS	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.54	19-20	>500	480	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.10	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 182 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

15=0-2-12, 23=0-6-0 (size) Max Grav 15=1425 (LC 1), 23=1425 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-23=0/57, 14-15=-1409/0, 1-2=0/0

2-3=-3285/0, 3-4=-3285/0, 4-7=-6068/0, 7-8=-6068/0, 8-9=-6271/0, 9-11=-6271/0,

11-12=-4443/0, 12-13=-2014/0,

13-14=-2014/0

BOT CHORD 22-23=0/989, 20-22=0/4819, 19-20=0/6186,

18-19=0/4443, 17-18=0/4443, 16-17=0/4443,

15-16=0/0

WEBS 11-18=-44/0, 12-17=0/102, 11-19=0/2121,

9-19=-842/0, 8-19=0/235, 8-20=-161/0, 7-20=-483/0, 4-20=0/1389, 4-22=-1707/0, 3-22=-330/0, 2-22=0/2564, 2-23=-1768/0,

12-16=-2825/0, 13-16=-80/416,

14-16=0/2363

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.

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

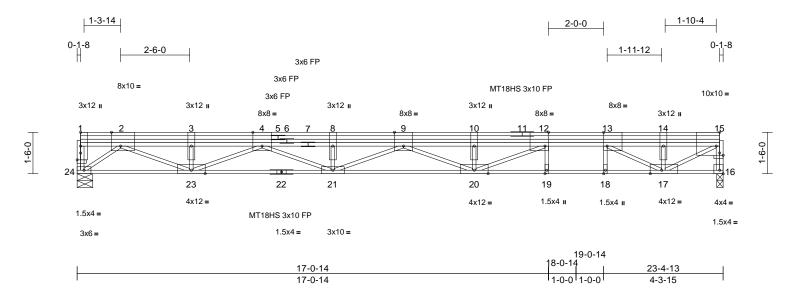
OF MISSO NATHANIEL FOX PE-2022042259 SSIONAL



Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F56	Floor	1	1	I58527994 Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:32 

Page: 1



Scale = 1:41.7

Plate Offsets (X, Y): [1:0-1-8,0-3-0], [2:0-4-0,Edge], [4:0-4-0,Edge], [9:0-4-0,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [15:0-1-8,Edge], [15:0-1-8,0-1-0], [16:Edge,0-1-8], [17:0-5-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL		Plate Grip DOL		TC.	0.27		-0.35	` '	>803		MT20	244/190
	60.0		1.00			- ( )					-	
TCDL	25.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.58	20-21	>482	480	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.11	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 218 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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.

16=0-2-12, 24=0-6-12 REACTIONS (size)

Max Grav 16=1466 (LC 1), 24=1466 (LC 1)

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

Tension

TOP CHORD 1-24=-81/0, 15-16=-1452/0, 1-2=0/0,

2-3=-4069/0, 3-4=-4069/0, 4-8=-6798/0 8-9=-6798/0, 9-10=-6787/0, 10-12=-6787/0,

12-13=-4680/0, 13-14=-2199/0,

14-15=-2199/0

BOT CHORD 23-24=0/1709, 21-23=0/5360, 20-21=0/6583,

19-20=0/4681, 18-19=0/4680, 17-18=0/4676,

16-17=0/0

WEBS 12-20=0/2401, 10-20=-1013/0, 9-20=0/318,

9-21=-5/281, 8-21=-697/0, 4-21=0/1585. 4-23=-1422/0, 3-23=-445/0, 2-23=0/2608 2-24=-2187/0, 12-19=-15/8, 13-18=0/69,

13-17=-2872/0, 14-17=-76/370,

15-17=0/2544

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 22 = 11%
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 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



May 24,2023



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

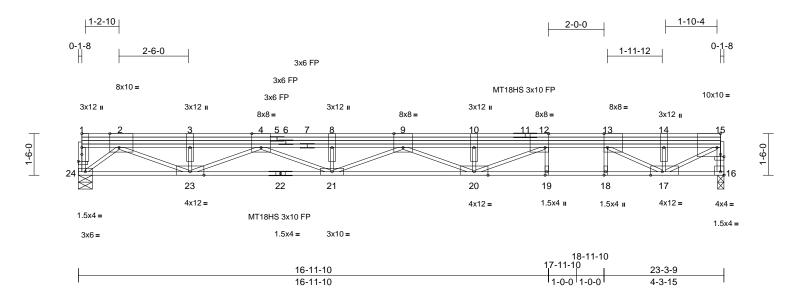
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F57	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:32 ID:mvwVtwZDWMtdWU10fbTSwezEG4Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.6

Plate Offsets (X, Y): [1:0-1-8,0-3-0], [2:0-4-0,Edge], [4:0-4-0,Edge], [9:0-4-0,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [15:0-1-8,Edge], [15:0-1-8,0-1-0], [16:Edge,0-1-8], [17:0-5-0,Edge]

Laadina	(m of)	Sunnium.	1.1.0	csı		DEFL		(100)	l/defl	I /al	PLATES	GRIP
Loading	(psf)	Spacing	1-4-0	CSI		DELL	ın	(loc)	i/deii	L/u	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.34	20-21	>813	480	MT18HS	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.57	20-21	>488	480	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 217 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

16=0-2-12, 24=0-6-0 (size) Max Grav 16=1460 (LC 1), 24=1460 (LC 1)

(lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD

1-24=-58/0, 15-16=-1446/0, 1-2=0/0,

2-3=-3959/0, 3-4=-3959/0, 4-8=-6718/0 8-9=-6718/0, 9-10=-6736/0, 10-12=-6736/0,

12-13=-4652/0, 13-14=-2188/0,

14-15=-2188/0

BOT CHORD 23-24=0/1609, 21-23=0/5272, 20-21=0/6523,

19-20=0/4653, 18-19=0/4652, 17-18=0/4647,

16-17=0/0

WEBS 12-19=-15/9, 13-18=0/68, 12-20=0/2376,

10-20=-1007/0. 9-20=0/322. 9-21=-14/260. 8-21=-692/0, 4-21=0/1593, 4-23=-1447/0, 3-23=-432/0, 2-23=0/2597, 2-24=-2121/0,

13-17=-2852/0, 14-17=-77/367,

15-17=0/2532

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 22 = 11%
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 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

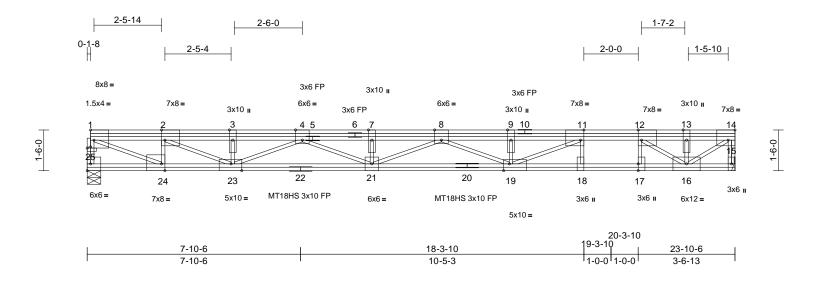
OF MISSO NATHANIEL FOX WABER PE-2022042259 SSIONAL May 24,2023

MiTek

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F58	Floor	1	1	I58527996 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:33 ID:QmiuXf73hVg51YYsMFIEoLzEG3r-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.4

[1:Edge,0-4-8], [1:0-1-8,0-0-8], [2:0-1-8,Edge], [4:0-3-0,Edge], [8:0-3-0,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [14:0-3-0,Edge], [17:0-3-0,Edge], [19:0-2-8,Edge], Plate Offsets (X, Y): [23:0-4-12,Edge], [24:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.30	19-21	>941	480	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.48	19-21	>589	480	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 224 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) WEBS 2x4 SP No.2(flat) OTHERS 2x4 SP No.2(flat)

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 15= Mechanical, 25=0-6-0 (size)

> Max Grav 15=1496 (LC 1), 25=1496 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-25=-1471/0, 14-15=-1457/0, 1-2=-2961/0, TOP CHORD

2-3=-5113/0, 3-4=-5113/0, 4-7=-7285/0, 7-8=-7285/0, 8-9=-6796/0, 9-11=-6796/0,

11-12=-4506/0, 12-13=-1805/0, 13-14=-1805/0

BOT CHORD 24-25=0/0, 23-24=0/2961, 21-23=0/6461,

19-21=0/7229, 18-19=0/4506, 17-18=0/4506,

16-17=0/4506, 15-16=0/0

**WEBS** 11-18=-281/0, 12-17=0/407, 11-19=0/2579,

9-19=-694/0, 8-19=-521/0, 8-21=-69/105, 7-21=-346/0, 4-21=0/908, 4-23=-1486/0, 3-23=-316/0, 12-16=-3282/0, 13-16=0/562 14-16=0/2220, 2-23=0/2371, 2-24=-1290/0,

1-24=0/3240

## NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- 2) 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.

- 5) 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



May 24,2023

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

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

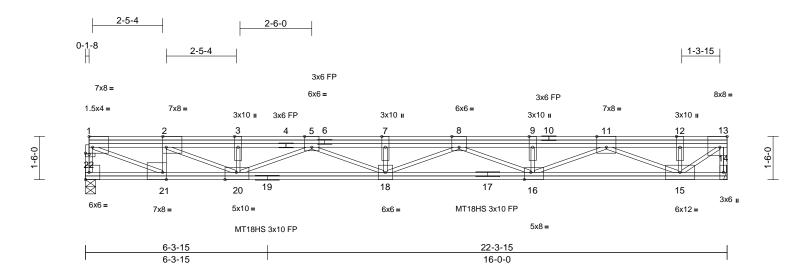
\*\*AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F59	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:33 

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Scale = 1:40.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.Ó	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.21	16-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.34	16-18	>783	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 211 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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=0-4-4 (size) Max Grav 14=1398 (LC 1), 22=1398 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

TOP CHORD 1-22=-1375/0, 13-14=-1401/0, 1-2=-2704/0,

2-3=-4654/0, 3-5=-4654/0, 5-7=-6440/0, 7-8=-6440/0, 8-9=-5445/0, 9-11=-5445/0,

11-12=-1743/0, 12-13=-1743/0

BOT CHORD 21-22=0/0, 20-21=0/2704, 18-20=0/5818,

16-18=0/6209, 15-16=0/3846, 14-15=0/0 WEBS 3-20=-310/0. 5-20=-1283/0. 5-18=0/685.

7-18=-326/0. 8-18=0/254. 8-16=-842/0. 9-16=-324/0, 11-16=0/1763, 11-15=-2318/0,

12-15=-330/0, 13-15=0/2215, 2-20=0/2149,

2-21=-1198/0, 1-21=0/2968

#### NOTES

- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

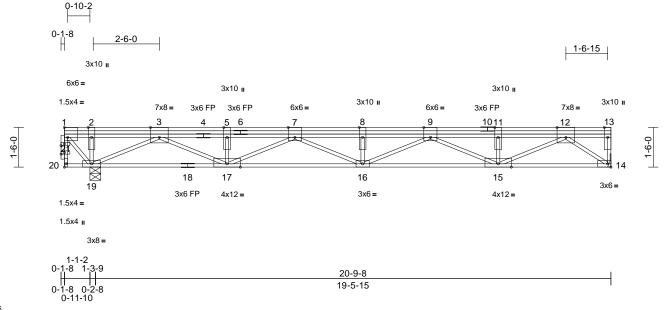




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F60	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:33 ID:O4I0H4hIC7Vh\_F9yTWAGbLzIFwF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.6

Plate Offsets (X, Y): [1:Edge,0-4-8], [1:0-1-8,0-0-12], [3:0-4-0,Edge], [7:0-3-0,Edge], [9:0-3-0,Edge], [12:0-4-0,Edge], [20:Edge,0-0-12], [21:0-1-8,0-0-12]
--

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.18	16-17	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.28	16-17	>826	720		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 166 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

# BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing, Except:

6-0-0 oc bracing: 19-20.

REACTIONS (size) 14= Mechanical, 19=0-4-15

Max Grav 14=1219 (LC 4), 19=2425 (LC 1)

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

Tension

TOP CHORD 1-20=-28/0, 13-14=-84/0, 1-2=0/739, 2-3=0/739, 3-5=-3559/0, 5-7=-3559/0,

7-8=-4729/0, 8-9=-4729/0, 9-11=-3239/0,

11-12=-3239/0, 12-13=0/0

**BOT CHORD** 19-20=-1/0, 17-19=0/1858, 16-17=0/4299,

15-16=0/4151. 14-15=0/1482

WEBS 2-19=-595/0, 1-19=-1161/0, 3-19=-2249/0,

3-17=0/1961, 5-17=-402/0, 7-17=-916/0, 7-16=0/546, 8-16=-424/0, 9-16=0/643, 9-15=-1015/0, 11-15=-352/0, 12-15=0/1958,

12-14=-1854/0

#### NOTES

- Unbalanced floor live loads have been considered for 1) 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.
- CAUTION, Do not erect truss backwards.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1000 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 14-20=-13, 1-13=-113

Concentrated Loads (lb)

Vert: 1=-1000 (F)

OF MISSO NATHANIEL FOX BER PE-2022042259 SSIONAL

May 24,2023



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

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

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

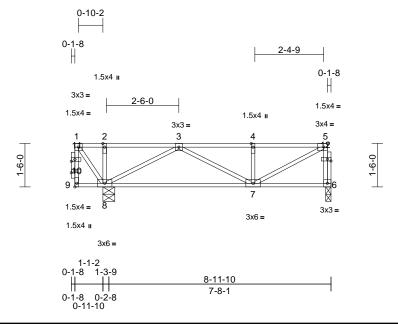
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



ſ	Job	Truss	Truss Type	Qty	Ply	
	P210577 - Floor	F61	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:34 ID:ZOKuuPCCdrTMB65G76SuzvzIFwt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.8

Plate Offsets (X, Y): [5:0-1-8,Edge], [9:Edge,0-0-12], [10:0-1-8,0-0-12], [11:0-1-8,0-0-12], [12:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.01	7-8	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.04	7-8	>999	720		
BCLL	0.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 51 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

# BRACING

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

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

bracing.

REACTIONS 6=0-2-3, 8=0-4-15 (size)

Max Grav 6=431 (LC 4), 8=1743 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-9=-29/0, 5-6=-422/0, 1-2=0/704, 2-3=0/704,

3-4=-580/0, 4-5=-580/0

BOT CHORD 8-9=0/0, 7-8=-275/452, 6-7=0/19 WEBS

2-8=-260/0, 1-8=-1224/0, 3-8=-927/0,

3-7=0/324, 4-7=-321/0, 5-7=0/640

#### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1000 lb down at 0-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 6-9=-13, 1-5=-113

Concentrated Loads (lb)

Vert: 1=-1000 (F)

OF MISS NATHANIEI FOX PE-2022042259 SSIONAL May 24,2023

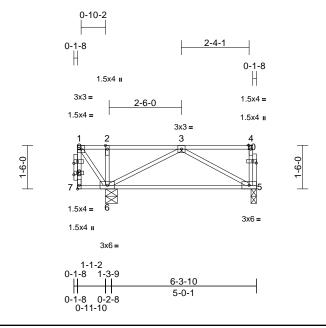




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F62	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:34 ID:GmtqrCv9HTRmIQGfj40G?rzIFxF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.8

Plate Offsets (X, Y): [7:Edge,0-0-12], [8:0-1-8,0-0-12], [9:0-1-8,0-0-12], [10:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	0.00	5-6	>999		MT20	244/190
TCDL	25.0	Lumber DOL	1.00	вс	0.13	Vert(CT)	-0.05	5-6	>999	720		
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 37 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

# BRACING

**FORCES** 

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 5=0-2-3, 6=0-4-15

Max Uplift 5=-89 (LC 3)

Max Grav 5=236 (LC 4), 6=1645 (LC 1) (lb) - Maximum Compression/Maximum

Tension 1-7=-35/0, 4-5=-106/0, 1-2=0/699, 2-3=0/699,

TOP CHORD 3-4=-5/0

**BOT CHORD** 6-7=0/0, 5-6=-260/192

WEBS  $2\hbox{-}6\hbox{--}247/0,\ 1\hbox{-}6\hbox{--}1216/0,\ 3\hbox{-}6\hbox{--}726/0,$ 

3-5=-214/300

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 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.
- CAUTION, Do not erect truss backwards.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1000 lb down at 0-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 5-7=-13, 1-4=-113

Concentrated Loads (lb) Vert: 1=-1000 (F)

> OF MISS NATHANIEL **FOX** MBER PE-2022042259 SSIONAL

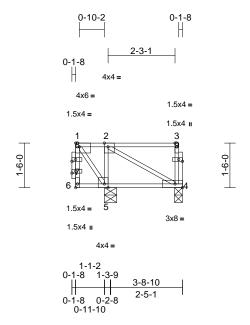




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F63	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:34 ID:fatYLq5EIMVqx5SGQunyeOzEFX0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.8

Plate Offsets (X, Y): [1:Edge,0-1-8], [2:0-1-8,Edge], [5:0-1-8,Edge], [6:Edge,0-0-12], [7:0-1-8,0-0-12], [8:0-1-8,0-0-12], [9:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	0.00	4-5	>999		MT20	244/190
TCDL	25.0	Lumber DOL	1.00	вс	0.07	Vert(CT)	0.00	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

# BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-10 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4=0-3-3, 5=0-4-15 Max Uplift 4=-563 (LC 3)

Max Grav 4=-80 (LC 4), 5=2395 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-17/0, 3-4=-109/0, 1-2=0/1057, 2-3=-5/0

BOT CHORD 5-6=0/0 4-5=-1057/0

**WEBS** 2-5=-877/0, 1-5=-1838/0, 2-4=0/1214

## NOTES

**FORCES** 

- Unbalanced floor live loads have been considered for
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 563 lb uplift at
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1500 lb down at 0-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 4-6=-13, 1-3=-113 Concentrated Loads (lb)

Vert: 1=-1500 (F)

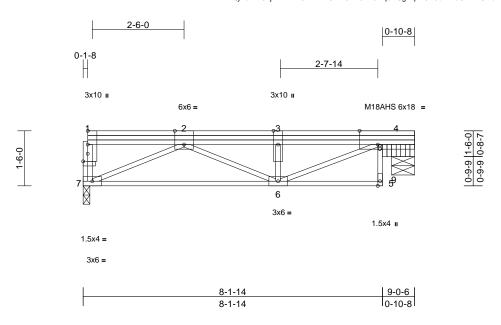
OF MISS NATHANIEL FOX UMBER ( PE-2022042259 SSIONAL



Job		Truss	Truss Type	Qty	Ply		
P21057	77 - Floor	F64	Floor	1	1	Job Reference (optional)	158528002

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:34 ID:11rQy7oVPiJ2j14whhM97xzIFxO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.4

Plate Offsets (X, Y): [1:0-1-8,0-2-8], [2:0-3-0,Edge], [4:0-6-0,Edge]

		1		1	-						i	
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.01	6-7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.08	6-7	>999	720	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 74 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

7=0-2-3, 9=0-7-8 (size)

Max Grav 7=528 (LC 1), 9=531 (LC 1) **FORCES** 

Tension

(lb) - Maximum Compression/Maximum

1-7=-140/0, 5-8=0/8, 4-8=-44/0, 1-2=0/0,

TOP CHORD 2-3=-876/0, 3-4=-876/0

BOT CHORD 6-7=0/754, 5-6=0/45

WEBS 2-7=-835/0, 2-6=0/136, 3-6=-313/0,

4-6=0/892, 4-9=-512/0

#### NOTES

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 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

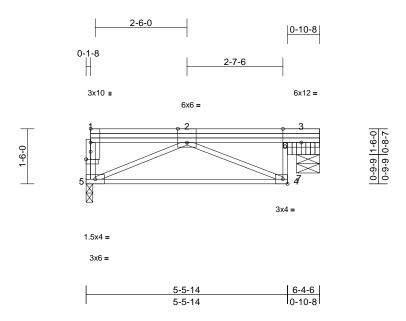




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F65	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:35 ID:JriDluTZIPvt\_tWkcWNpXFzIFxp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.4

Plate Offsets (X, Y): [1:0-1-8,0-2-8], [2:0-3-0,Edge], [3:0-6-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	0.00	4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.12	4-5	>557	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 52 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 5=0-2-3, 7=0-7-8 (size)

Max Grav 5=359 (LC 1), 7=362 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-5=-128/0, 4-6=0/201, 3-6=0/183, 1-2=0/0,

2-3=-57/0

BOT CHORD 4-5=0/411

WEBS 2-5=-455/0, 2-4=-391/0, 3-7=-358/0

## NOTES

TOP CHORD

- 1) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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

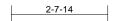


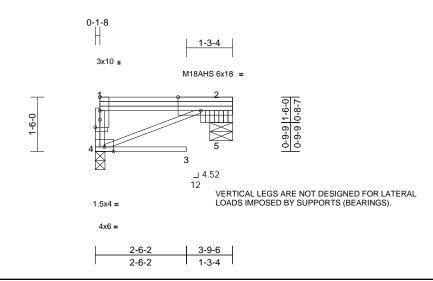


Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F66	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:35 ID:yW\_LdPp7f4Sq0xYGKcSTQEzEFdr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:31.8

Plate Offsets (X, Y): [1:0-1-8,0-2-8], [2:0-7-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	0.00	(100)	>999		MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC		Vert(CT)	-0.06	3	>678		M18AHS	186/179
BCLL		Rep Stress Incr	YES	WB		Horz(CT)	0.00	5	n/a	n/a	WITO/WITO	100/173
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.03	11012(01)	0.00	3	II/a	II/a	Weight: 31 lb	FT = 20%F. 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

#### BRACING

TOP CHORD Structural wood sheathing directly applied or

3-9-6 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 4=0-3-3, 5=0-7-8 (size)

Max Grav 4=202 (LC 1), 5=194 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-182/0, 1-2=-28/0, 2-5=-194/0

**BOT CHORD** 3-4=0/0 WFBS 2-4=0/31

### **NOTES**

- All plates are MT20 plates unless otherwise indicated.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

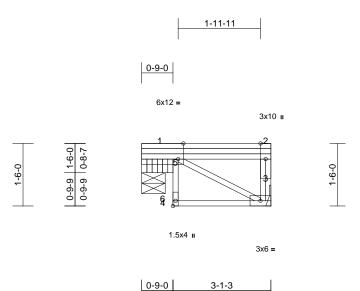




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F67	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:35 ID: UKipBmNUBSRoZu3EnvEUL3zIFzE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:27.6

Plate Offsets (X, Y): [1:0-1-8,Edge], [4:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	0.00	4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	0.00	3-4	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%F, 11%E

2-4-3

0-9-0

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

#### BRACING

TOP CHORD Structural wood sheathing directly applied or

3-1-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 3= Mechanical, 6=0-6-12 (size) Max Grav 3=156 (LC 1), 6=160 (LC 1)

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

Tension

TOP CHORD 4-5=0/14, 1-5=-2/0, 2-3=-133/0, 1-2=0/0

**BOT CHORD** 3-4=0/18

WFBS 1-3=-20/0, 1-6=-154/0

### **NOTES**

- 1) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



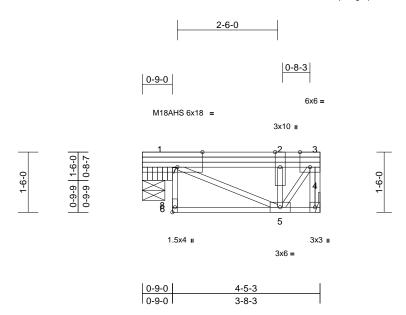




	Job	Truss	Truss Type	Qty	Ply	
ı	P210577 - Floor	F68	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:35  $ID:mbWlOwdDYilSlXuWibeANCzlG\_B-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ffcprofilestory and the profilestory an$ 

Page: 1



Scale = 1:28.7

Plate Offsets (X, Y): [1:0-7-8,Edge], [3:0-3-0,Edge], [6:Edge,0-0-12]

Loading	(nof)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
Loading	(psf)	Spacing	1-4-0	l coi		DELL	111	(IOC)	i/deli	L/u	PLATES	GKIF
TCLL	60.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	5-6	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	-0.01	5-6	>999	720	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 40 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS 4= Mechanical, 8=0-6-12 (size) Max Grav 4=241 (LC 1), 8=244 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

6-7=0/15, 1-7=-11/0, 3-4=-243/0, 1-2=-171/0,

2-3=-171/0

BOT CHORD 5-6=0/26, 4-5=0/0

WEBS 1-5=0/156, 2-5=-271/0, 3-5=0/299,

1-8=-235/0

#### NOTES

TOP CHORD

- All plates are MT20 plates unless otherwise indicated. 1)
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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



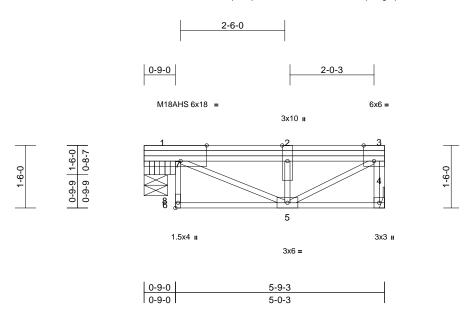




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F69	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:35 

Page: 1



Scale = 1:27.6

Plate Offsets (X, Y): [1:0-7-8,Edge], [3:0-3-0,Edge], [6:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	0.00	5	>999		MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC		Vert(CT)	-0.01	5-6	>999	720	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		, ,					Weight: 49 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 4= Mechanical, 8=0-6-12 (size) Max Grav 4=325 (LC 1), 8=329 (LC 1)

**FORCES** Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 6-7=0/15, 1-7=-14/0, 3-4=-314/0, 1-2=-366/0,

2-3=-366/0

BOT CHORD 5-6=0/30, 4-5=0/0

WEBS 1-5=0/364, 2-5=-310/0, 3-5=0/421,

1-8=-317/0

#### NOTES

- All plates are MT20 plates unless otherwise indicated. 1)
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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





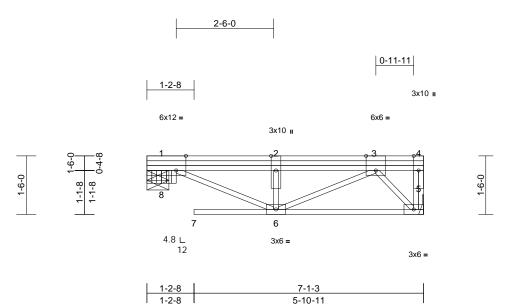




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F70	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:36 ID:0jJaoc\_M\_jNxhWXjCxl7pDzIG4B-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.6

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	-0.01	7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.10	Vert(CT)	-0.06	7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 58 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

1=0-6-12, 5= Mechanical (size) Max Grav 1=407 (LC 1), 5=417 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 4-5=-34/0, 1-2=-600/0, 2-3=-600/0, 3-4=0/0, 1-8=0/0

BOT CHORD 6-7=0/0, 5-6=0/334

WEBS 1-6=0/652, 2-6=-327/0, 3-6=0/297,

3-5=-496/0

### NOTES

- Refer to girder(s) for truss to truss connections. 1)
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24,2023



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

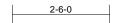
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

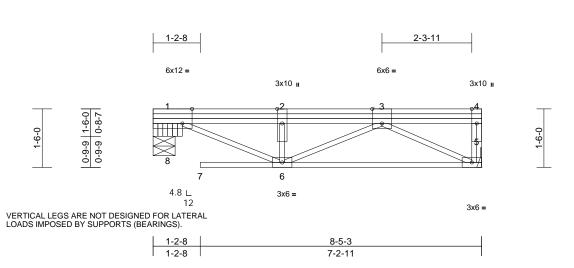
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F71	Floor	1	1	Job Reference (optional)

Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries. Inc. Wed May 24 12:27:30 ID:AUrcGJ5xP\_2Ro8tVtPQmpczIG5L-SxxSQvJRDtqd0wwj16x\_dBmNOZMSHQCFDoMsS\_zDSOz Page: 1





Scale = 1:29.6

Plate Offsets (X, Y): [1:0-3-0,Edge], [3:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	-0.01	7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.06	5-6	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 67 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 (lb/size) 5=502/ Mechanical, 8=492/0-6-12 (lb) - Max. Comp./Max. Ten. - All forces 250 **FORCES** 

(lb) or less except when shown 1-2=-796/0, 2-3=-796/0, 1-8=-492/0

TOP CHORD **BOT CHORD** 5-6=0/672

1-6=0/866, 2-6=-333/0, 3-5=-755/0 WEBS

- 1) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

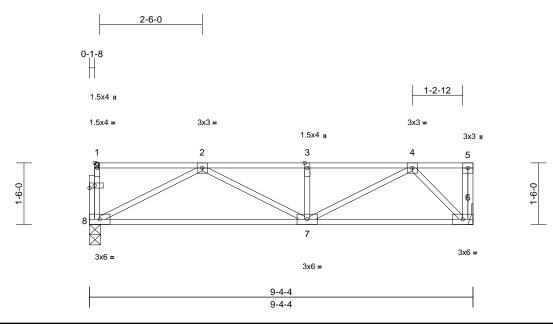






Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F72	Floor	1	1	Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:36  $ID:\_c?1q86FBZLTmg?PmHyAuCzEFhK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$  Page: 1



Scale = 1:28.1

		1		1			-				i	
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.02	7-8	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.07	7-8	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 6= Mechanical, 8=0-3-3 (size) Max Grav 6=577 (LC 1), 8=570 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-8=-116/0, 5-6=-40/0, 1-2=-5/0, 2-3=-1001/0,

3-4=-1001/0, 4-5=0/0

BOT CHORD 7-8=0/817, 6-7=0/511

WEBS 2-8=-916/0, 2-7=0/208, 3-7=-286/0,

4-7=0/555, 4-6=-728/0

### NOTES

TOP CHORD

- 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.

LOAD CASE(S) Standard

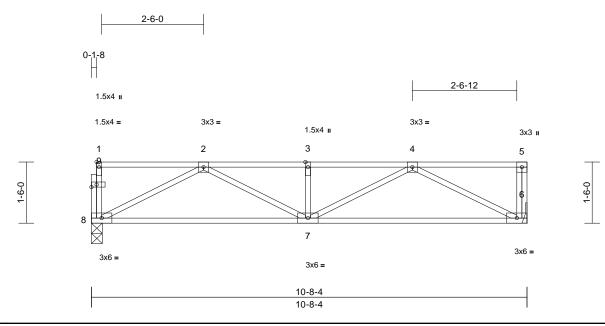




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F73	Floor	1	1	I58528011 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:36 ID: 9 Sem Z 52 Ubjb J 2 IXGQ 0 rmexz EFhQ-RfC? PsB 70 Hq 3 NSgPqnL 8 w 3 u ITXbGKWrCDoi 7 J 4 z J C? full for the control of the control of

Page: 1



Scale = 1:28.3

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.03	7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.08	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 6= Mechanical, 8=0-3-3 (size) Max Grav 6=661 (LC 1), 8=654 (LC 1)

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

Tension

TOP CHORD 1-8=-115/0, 5-6=-122/0, 1-2=-5/0, 2-3=-1318/0, 3-4=-1318/0, 4-5=0/0

BOT CHORD 7-8=0/982, 6-7=0/1000

WEBS 2-8=-1103/0, 2-7=0/381, 3-7=-266/0,

4-7=0/361, 4-6=-1124/0

### NOTES

- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



May 24,2023



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

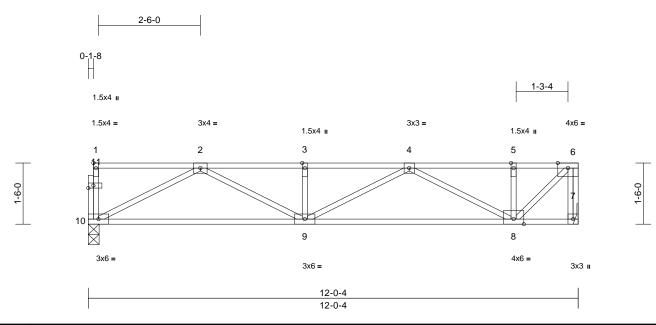
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F74	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:36  $ID:pVrtWO\_LmBz1x\_fIdTFbxuzEFhV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:28.3

Plate Offsets	(X, Y):	[1:Edge,0-0-12], [11:	:0-1-8,0-0-12]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.04	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.09	9-10	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 66 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 7= Mechanical, 10=0-3-3 (size) Max Grav 7=746 (LC 1), 10=738 (LC 1)

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

Tension

TOP CHORD 1-10=-116/0, 6-7=-748/0, 1-2=-5/0,

2-3=-1635/0, 3-4=-1635/0, 4-5=-740/0,

5-6=-740/0

**BOT CHORD** 9-10=0/1140, 8-9=0/1468, 7-8=0/0 2-10=-1281/0, 2-9=0/562, 3-9=-277/0. WEBS

4-9=0/190, 4-8=-826/0, 5-8=-255/0,

6-8=0/1018

### NOTES

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

LOAD CASE(S) Standard



May 24,2023



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

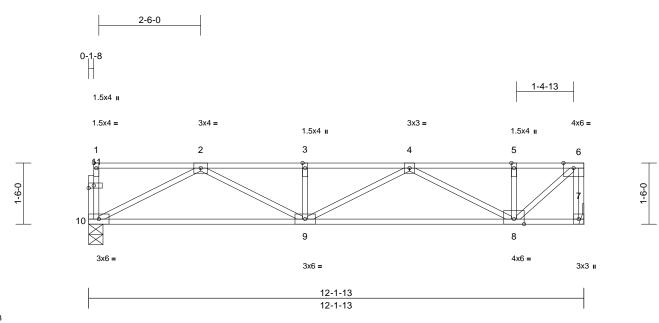
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F75	Floor	1	1	I58528013 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:37  $ID: 4YXXb\_pa?11kPeEb3haStgzIG9Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:28.3

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.04	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.09	9-10	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 66 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 7= Mechanical, 10=0-4-4 (size) Max Grav 7=754 (LC 1), 10=747 (LC 1)

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

Tension

TOP CHORD 1-10=-116/0, 6-7=-754/0, 1-2=-5/0,

2-3=-1666/0, 3-4=-1666/0, 4-5=-803/0,

5-6=-803/0

**BOT CHORD** 9-10=0/1156, 8-9=0/1514, 7-8=0/0 WEBS 2-10=-1299/0, 2-9=0/579, 3-9=-277/0,

4-9=0/173, 4-8=-807/0, 5-8=-261/0,

6-8=0/1062

### NOTES

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

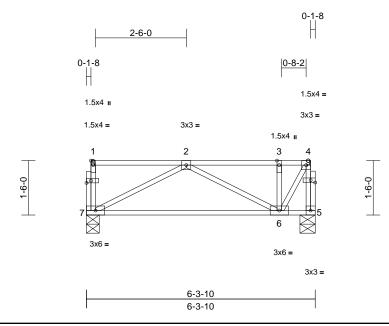
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F76	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:37 ID:v9ryjPU0bQVj2L5DQp4ukmzIGA?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.7

Plate Offsets (X, Y): [1:Edge,0-0-12], [8:0-1-8,0-0-12], [9:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
-		-						(IOC)	i/ueii			
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	0.00	6-7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.06	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

5=0-5-0, 7=0-4-4 (size) Max Grav 5=376 (LC 1), 7=376 (LC 1)

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

Tension

1-7=-114/0, 4-5=-413/0, 1-2=-5/0, 2-3=-262/0,

3-4=-262/0

BOT CHORD 6-7=0/453, 5-6=0/19

WEBS 2-7=-506/0, 2-6=-217/0, 3-6=-225/0,

4-6=0/482

### NOTES

TOP CHORD

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





Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F77	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:37 ID:00bRu2RVXB?HakoSBz0yawzIGA3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

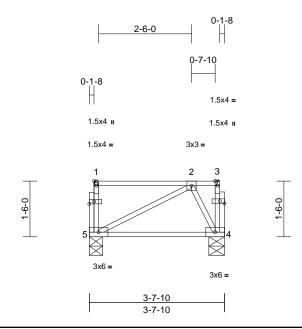


Plate Offsets (X, Y): [1:Edge,0-0-12], [6:0-1-8,0-0-12], [7:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.02	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 4=0-5-0, 5=0-4-4 (size)

Max Grav 4=207 (LC 1), 5=207 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-117/0, 3-4=0/64, 1-2=-5/0, 2-3=0/3

**BOT CHORD** 4-5=0/135

WFBS 2-5=-146/0, 2-4=-284/0

### NOTES

- This truss is designed in accordance with the 2018 1) 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

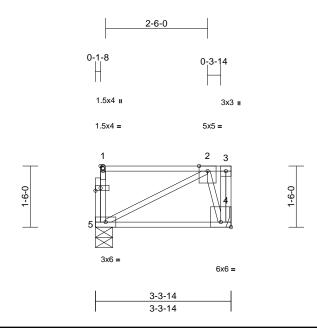




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F78	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:37 ID:lemx9KS4HDWZYi3rj8iyVSzIGLf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.3

Plate Offsets (X, Y): [1:Edge,0-0-12], [4:Edge,0-1-8], [6:0-1-8,0-0-12]

		ı		1	-		-				i	-
Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.01	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins, except end verticals.

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

bracing.

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

Max Grav 4=195 (LC 1), 5=188 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-5=-116/0, 3-4=0/144, 1-2=-5/0, 2-3=0/0

TOP CHORD **BOT CHORD** 4-5=0/104

WFBS 2-5=-112/0, 2-4=-335/0

### **NOTES**

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

LOAD CASE(S) Standard

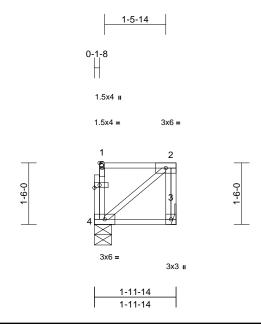




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F79	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:37 ID: dbQAIFubLnbEPTzpSmMw5YzIGMO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:28.1

Plate Offsets (X, Y): [1:Edge,0-0-12], [5:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	` -	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	0.00	3-4	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS OTHERS 2x4 SP No.2(flat)

### BRACING

Structural wood sheathing directly applied or TOP CHORD

1-11-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

3= Mechanical, 4=0-5-0 Max Grav 3=110 (LC 1), 4=103 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-95/0, 2-3=-99/0, 1-2=-4/0

**BOT CHORD** 3-4=0/0 WFBS 2-4=0/6

### **NOTES**

**FORCES** 

- 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.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



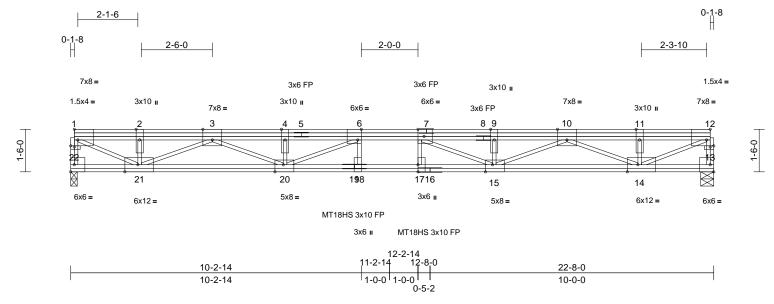




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F80	Floor	36	1	I58528018 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:38 ID:82EfErrebLmR5GPHQipmcPzIGNk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.6

[1:Edge,0-4-8], [1:0-1-8,0-0-8], [3:0-4-0,Edge], [6:0-1-8,Edge], [7:0-2-9,Edge], [10:0-4-0,Edge], [12:0-1-8,Edge], [12:0-1-8,0-0-8], [14:0-4-8,Edge], [15:0-3-0,Edge], Plate Offsets (X, Y): [17:0-3-0,Edge], [20:0-3-8,Edge], [21:0-5-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.23	17-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.36	17-18	>744	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 211 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) WEBS 2x4 SP No.2(flat) OTHERS 2x4 SP No.2(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 13=0-5-8, 22=0-2-12 (size)

Max Grav 13=1420 (LC 1), 22=1420 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-22=-1407/0, 12-13=-1404/0, 1-2=-2498/0, TOP CHORD

2-3=-2498/0, 3-4=-5913/0, 4-6=-5913/0, 6-9=-6531/0, 9-10=-5972/0, 10-11=-2658/0,

11-12=-2658/0

BOT CHORD 21-22=0/0, 20-21=0/4477, 18-20=0/6531,

17-18=0/6531, 15-17=0/6527, 14-15=0/4598,

13-14=0/0

**WEBS** 6-20=-1103/0, 4-20=-394/0, 3-20=0/1583 3-21=-2181/0, 2-21=-316/0, 1-21=0/2810,

7-15=-1051/0, 9-15=-384/0, 10-15=0/1515 10-14=-2138/0, 11-14=-316/0, 12-14=0/2946,

6-18=-56/92, 7-17=-53/99

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
- 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.

5) 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

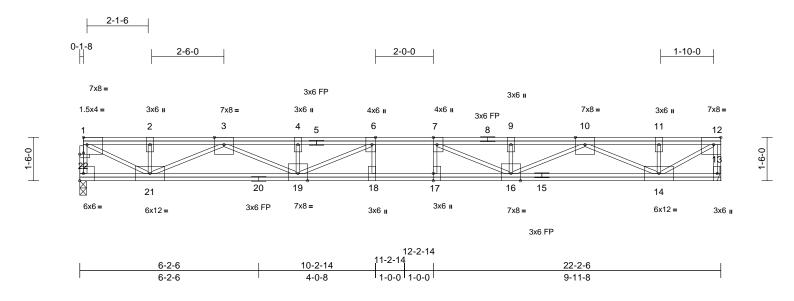




Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F81	Floor	11	1	I58528019 Job Reference (optional)	

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:38 ID:pBSTOu4dII1nIDzT3qjIMKzIGRI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.9

Plate Offsets (X, Y): [1:Edge,0-3-0], [1:0-1-8,0-0-8], [6:0-3-0,Edge], [7:0-3-0,Edge], [12:0-3-0,Edge], [17:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.22	17-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.35	17-18	>748	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 177 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 13= Mechanical, 22=0-2-12 (size)

Max Grav 13=1390 (LC 1), 22=1390 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

1-22=-1377/0, 12-13=-1383/0, 1-2=-2340/0,

2-3=-2339/0, 3-4=-5483/0, 4-6=-5483/0,

6-7=-6029/0, 7-9=-5370/0, 9-10=-5370/0,

10-11=-2088/0, 11-12=-2088/0

**BOT CHORD** 21-22=0/0, 19-21=0/4203, 18-19=0/6029, 17-18=0/6029, 16-17=0/6029, 14-16=0/4024,

13-14=0/0

WEBS 6-18=-126/151, 7-17=-106/170,

6-19=-1022/0, 4-19=-357/0, 3-19=0/1425, 3-21=-2073/0, 2-21=-289/0, 1-21=0/2651, 7-16=-1111/0, 9-16=-349/0, 10-16=0/1497

10-14=-2155/0, 11-14=-291/0, 12-14=0/2456

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x6 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
- 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



May 24,2023

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

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

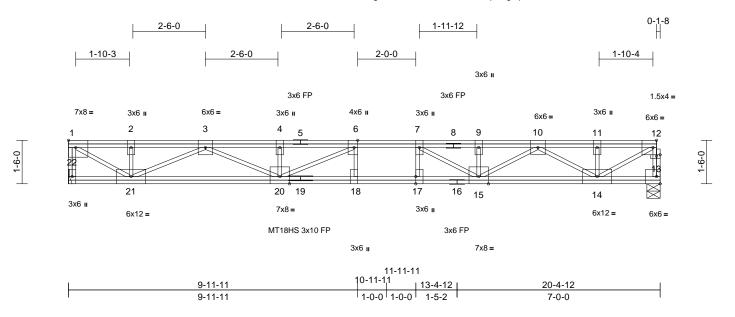
\*\*AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F82	Floor	8	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:38 ID:G1NilA3x4USigJYJ8BDbzczIGSc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.7

Plate Offsets (X, Y): [1:Edge,0-3-0], [6:0-3-0,Edge], [12:0-1-8,Edge], [12:0-1-8,0-0-10], [17:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.17	18-20	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.32	Vert(CT)	-0.26	18-20	>915	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 164 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

BRACING

TOP CHORD

**BOT 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)

13=0-5-8, 22= Mechanical Max Grav 13=1276 (LC 1), 22=1276 (LC 1)

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

1-22=-1267/0, 12-13=-1263/0, 1-2=-1914/0,

2-3=-1914/0, 3-4=-4747/0, 4-6=-4747/0, 6-7=-5049/0, 7-9=-4337/0, 9-10=-4337/0, 10-11=-1899/0, 11-12=-1900/0

21-22=0/0, 20-21=0/3618, 18-20=0/5049,

17-18=0/5049, 15-17=0/5049, 14-15=0/3313,

13-14=0/0

WEBS 6-20=-760/124, 4-20=-366/0, 3-20=0/1255,

3-21=-1896/0, 2-21=-292/0, 1-21=0/2247, 7-15=-1110/0 9-15=-267/39 10-15=0/1200 10-14=-1658/0, 11-14=-234/0, 12-14=0/2213,

6-18=-152/92, 7-17=-58/215

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 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.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

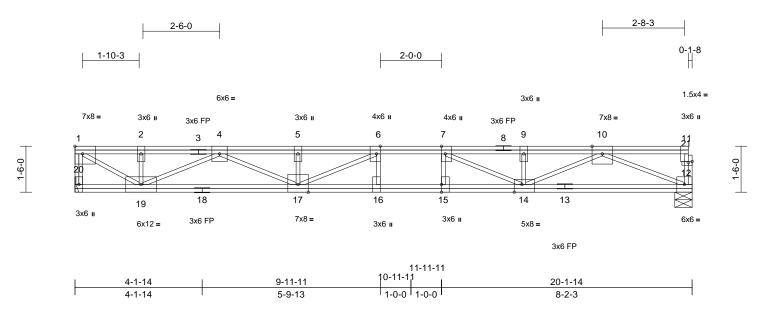




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F83	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:39 

Page: 1



Scale = 1:37.6

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.17	16-17	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.26	16-17	>906	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 160 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS 12=0-6-12, 20= Mechanical (size) Max Grav 12=1257 (LC 1), 20=1257 (LC 1)

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

Tension

TOP CHORD 1-20=-1247/0, 11-12=-134/0, 1-2=-1883/0,

2-4=-1883/0, 4-5=-4641/0, 5-6=-4641/0, 6-7=-4885/0, 7-9=-3887/0, 9-10=-3887/0,

10-11=0/0

**BOT CHORD** 19-20=0/0, 17-19=0/3548, 16-17=0/4885,

15-16=0/4885, 14-15=0/4885, 12-14=0/2491 6-16=-164/84, 7-15=-25/216, 6-17=-717/175,

5-17=-372/0, 4-17=0/1215, 4-19=-1853/0,

2-19=-293/0, 1-19=0/2210, 7-14=-1304/0,

9-14=-316/0, 10-14=0/1556, 10-12=-2690/0

### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x6 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

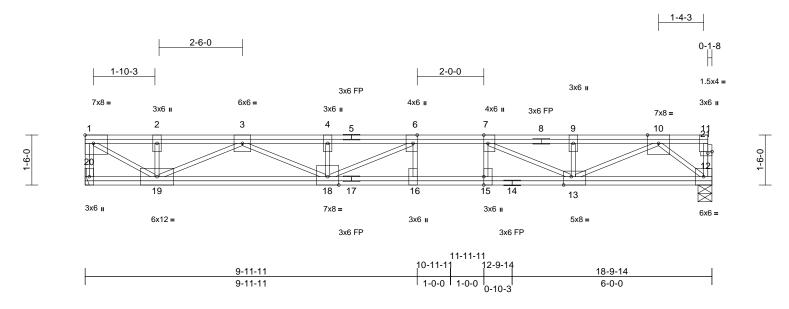




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F84	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:39 ID:Oj4LnAc61pg56Te0wCXhQbzIGTC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.6

Plate Offsets (X, Y): [1:Edge,0-3-0], [6:0-3-0,Edge], [7:0-3-0,Edge], [13:0-2-12,Edge], [15:0-3-0,Edge], [21:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	тс	0.18	Vert(LL)	-0.14	16-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.22	16-18	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 151 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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)

12=0-5-0, 20= Mechanical

Max Grav 12=1172 (LC 1), 20=1172 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-1162/0, 11-12=-42/1, 1-2=-1744/0, 2-3=-1744/0, 3-4=-4175/0, 4-6=-4175/0,

6-7=-4155/0, 7-9=-2928/0, 9-10=-2928/0,

10-11=0/0

**BOT CHORD** 19-20=0/0, 18-19=0/3240, 16-18=0/4155,

15-16=0/4155, 13-15=0/4155, 12-13=0/1339 6-18=-472/353. 4-18=-389/0. 3-18=0/1041.

3-19=-1664/0, 2-19=-293/0, 1-19=0/2047.

7-13=-1470/0. 9-13=-298/21. 10-13=0/1769.

10-12=-1710/0, 6-16=-199/36, 7-15=0/245

### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x6 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



May 24,2023





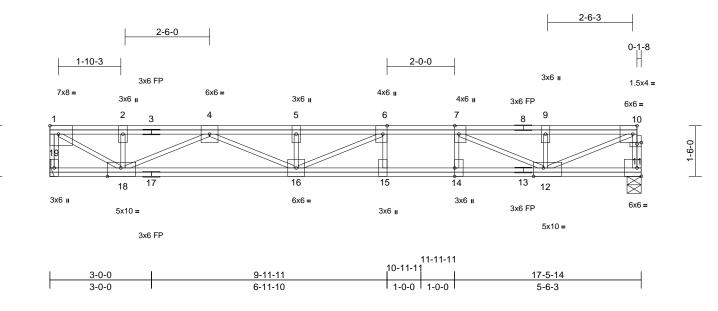


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F85	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:39 ID:1UI0AfLIC2uDT5znda8XXzzIGTY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.13	15-16	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.20	15-16	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 140 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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)

11=0-5-0, 19= Mechanical Max Grav 11=1092 (LC 1), 19=1092 (LC 1)

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

TOP CHORD 1-19=-1080/0, 10-11=-1058/0, 1-2=-1612/0,

2-4=-1612/0, 4-5=-3731/0, 5-6=-3731/0, 6-7=-3463/0, 7-9=-1984/0, 9-10=-1985/0

**BOT CHORD** 18-19=0/0, 16-18=0/2946, 15-16=0/3463, 14-15=0/3463, 12-14=0/3463, 11-12=0/0

6-15=-240/0, 7-14=0/296, 6-16=-248/531, 5-16=-404/0, 4-16=0/873, 4-18=-1485/0,

2-18=-294/0, 1-18=0/1892, 7-12=-1660/0,

9-12=-313/19, 10-12=0/2180

### NOTES

**WEBS** 

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x6 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



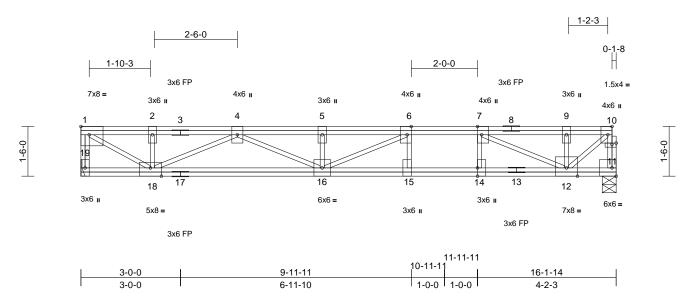




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F86	Floor	1	1	I58528024 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:39 ID: ktly7R2FshtdbP7ADYiuZvzIGTw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:34.8

Plate Offsets (X, Y): [1:Edge,0-3-0], [6:0-3-0,Edge], [7:0-3-0,Edge], [10:0-3-0,Edge], [10:0-1-8,0-0-8], [14:0-3-0,Edge], [18:0-4-0,Edge]

					-							
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.11	15-16	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.18	15-16	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 130 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

### BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 11=0-5-0, 19= Mechanical (size)

Max Grav 11=1007 (LC 1), 19=1007 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** 

TOP CHORD 1-19=-995/0, 10-11=-967/0, 1-2=-1473/0,

2-4=-1473/0, 4-5=-3265/0, 5-6=-3265/0, 6-7=-2737/0, 7-9=-980/0, 9-10=-981/0

**BOT CHORD** 18-19=0/0, 16-18=0/2638, 15-16=0/2737,

14-15=0/2737, 12-14=0/2737, 11-12=0/0 6-15=-281/0, 7-14=0/339, 6-16=-24/731,

5-16=-422/0. 4-16=0/698. 4-18=-1296/0. 2-18=-294/0, 1-18=0/1729, 7-12=-1946/0,

9-12=-216/78, 10-12=0/1316

### NOTES

**WEBS** 

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x6 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



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F87	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:40 ID:MHKVgsl73oOoFyScSZHpjLzIGVb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 1

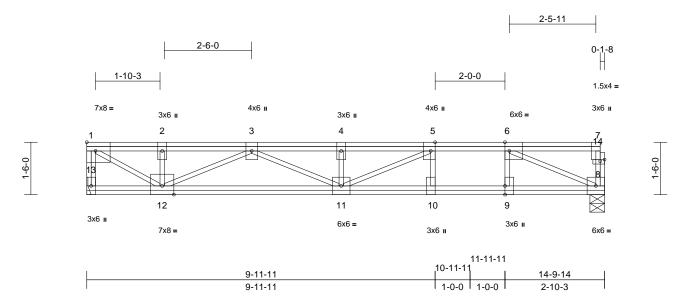


Plate Offsets (X, Y): [1:Edge,0-3-0], [5:0-3-0,Edge], [6:0-1-8,Edge], [9:0-3-0,Edge], [14:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.11	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.17	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 119 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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) 8=0-5-0, 13= Mechanical Max Grav 8=919 (LC 1), 13=919 (LC 1)

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

Tension

TOP CHORD 1-13=-905/0, 7-8=-90/61, 1-2=-1328/0, 2-3=-1328/0, 3-4=-2778/0, 4-5=-2778/0,

5-6=-1974/0, 6-7=0/0

**BOT CHORD** 12-13=0/0, 11-12=0/2315, 10-11=0/1974,

9-10=0/1974, 8-9=0/1973

5-10=-330/0, 6-9=0/281, 5-11=0/967,

**WEBS** 4-11=-445/0. 3-11=0/515. 3-12=-1098/0.

2-12=-295/0, 1-12=0/1559, 6-8=-2151/0

### 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

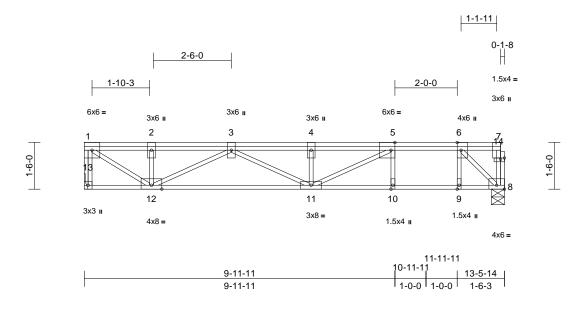




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F88	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:40 ID:jzcz9lcct7tVp6XII24\_EpzIGVn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.13	10-11	>999		MT20	244/190
TCDL	25.0	Lumber DOL	1.00	вс	0.45	Vert(CT)	-0.21	10-11	>759	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 91 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 8=0-5-0, 13= Mechanical (size) Max Grav 8=831 (LC 1), 13=838 (LC 1)

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

1-13=-833/0, 7-8=0/416, 1-2=-1158/0,

2-3=-1158/0, 3-4=-2244/0, 4-5=-2244/0,

5-6=-1268/0, 6-7=0/20 **BOT CHORD** 12-13=0/0, 11-12=0/1910, 10-11=0/1268,

9-10=0/1268, 8-9=0/1268

**WEBS** 5-10=-111/0, 6-9=0/203, 5-11=0/1110, 4-11=-560/0, 3-11=0/376, 3-12=-845/0,

2-12=-310/0, 1-12=0/1378, 6-8=-1806/0

### 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard







ſ	Job	Truss	Truss Type	Qty	Ply		
	P210577 - Floor	F89	Floor	1	1	Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:40 

Page: 1

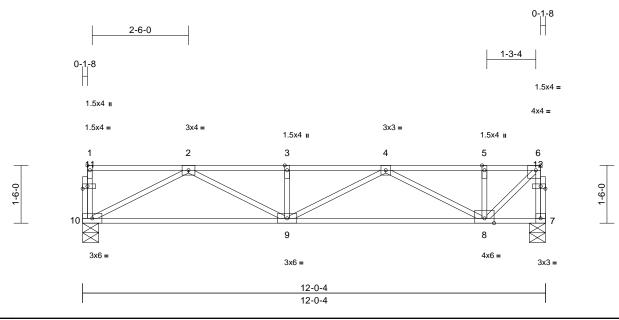


Plate Offsets (X, Y): [1:Edge,0-0-12], [6:0-1-8,Edge], [11:0-1-8,0-0-12], [12:0-1-8,0-0-12]

		ı	•				•		-			
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.04	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	вс	0.22	Vert(CT)	-0.09	9-10	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		` ′					Weight: 65 lb	FT = 20%F, 11%

### LUMBER

Scale = 1:29.9

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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

7=0-5-0, 10=0-5-0 (size)

Max Grav 7=738 (LC 1), 10=738 (LC 1)

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

Tension

TOP CHORD 1-10=-116/0, 6-7=-742/0, 1-2=-5/0,

2-3=-1635/0, 3-4=-1635/0, 4-5=-740/0,

5-6=-740/0

**BOT CHORD** 9-10=0/1140, 8-9=0/1468, 7-8=0/34 WEBS 2-10=-1281/0, 2-9=0/562, 3-9=-277/0,

4-9=0/190, 4-8=-826/0, 5-8=-252/0,

6-8=0/991

### NOTES

- 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





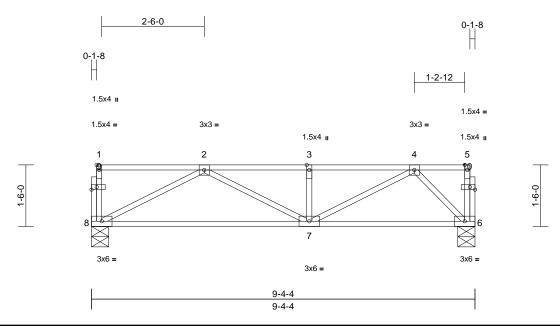




ſ	Job	Truss	Truss Type	Qty	Ply	
	P210577 - Floor	F90	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:41 ID: qxr1laMRqgEUouQG08C3uNzIGW6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:28.1

Plate Offsets (X, Y): [1:Edge,0-0-12], [9:0-1-8,0-0-12], [10:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.02	7-8	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.07	7-8	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 6=0-5-0, 8=0-5-0 (size)

Max Grav 6=570 (LC 1), 8=570 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

TOP CHORD 1-8=-116/0, 5-6=-35/0, 1-2=-5/0, 2-3=-1001/0, 3-4=-1001/0, 4-5=-2/0

7-8=0/817, 6-7=0/511

WEBS 2-8=-916/0, 2-7=0/209, 3-7=-286/0,

4-7=0/556, 4-6=-725/0

### NOTES

BOT CHORD

- 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

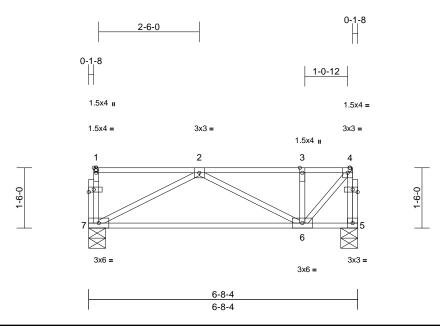




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F91	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:41 ID:Uz28isII?7cBh7YJEbcuBKzIGWB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.6

Plate Offsets (X, Y): [1:Edge,0-0-12], [8:0-1-8,0-0-12], [9:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	1./4	PLATES	GRIP
Loading	(psi)	Spacing	1-4-0	COI		DEFL	1111	(IUC)	i/ueii	L/u	FLAILS	GKIF
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	0.00	6-7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.06	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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 5=0-5-0, 7=0-5-0 (size)

Max Grav 5=401 (LC 1), 7=401 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-7=-114/0, 4-5=-420/0, 1-2=-5/0, 2-3=-353/0,

TOP CHORD 3-4=-353/0

BOT CHORD 6-7=0/499, 5-6=0/19

WEBS 2-7=-557/0, 2-6=-166/0, 3-6=-231/0,

4-6=0/510

### NOTES

- 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





Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F92	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:41 ID:fpgsRpDXQHr2zC49tKVUx3zIGWH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

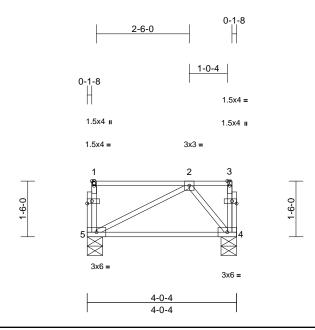


Plate Offsets (X, Y): [1:Edge,0-0-12], [6:0-1-8,0-0-12], [7:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.03	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4=0-5-0, 5=0-5-0

Max Grav 4=232 (LC 1), 5=232 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-119/0, 3-4=0/2, 1-2=-5/0, 2-3=0/0

**BOT CHORD** 4-5=0/174

WFBS 2-5=-190/0, 2-4=-271/0

### NOTES

- This truss is designed in accordance with the 2018 1) 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

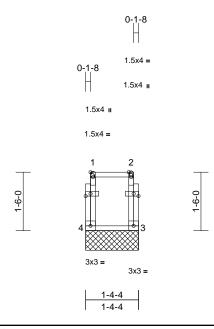




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F93	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:41 ID:MfAxG\_W94TXH0Hf?U8SubqzIGXB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.5

Plate Offsets (X, Y): [1:Edge,0-0-12], [5:0-1-8,0-0-12], [6:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.03	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.00	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 11 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing. REACTIONS

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

Max Grav 3=63 (LC 1), 4=63 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-56/0, 2-3=-56/0, 1-2=-8/0 **BOT CHORD** 3-4=0/8

### **NOTES**

1) N/A

- 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.

LOAD CASE(S) Standard



May 24,2023



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

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

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

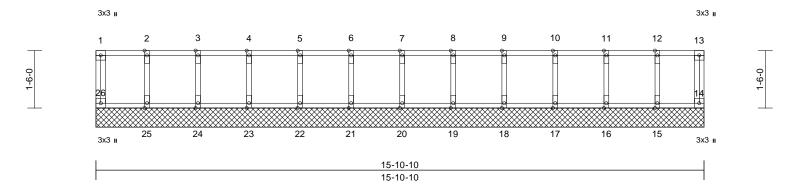
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply		
P210577 - Floor	F94	Floor Supported Gable	1	1	I58528032 Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Tue May 23 16:25:41  $ID: QNCm7vPiDiAVgLgypKY\_TRzIGqi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:30.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	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	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 75 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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) 14=15-10-10, 15=15-10-10, 16=15-10-10, 17=15-10-10, 18=15-10-10, 19=15-10-10, 20=15-10-10, 21=15-10-10, 22=15-10-10, 23=15-10-10, 24=15-10-10, 25=15-10-10, 26=15-10-10

Max Grav 14=65 (LC 1), 15=156 (LC 1), 16=172 (LC 1), 17=168 (LC 1), 18=169 (LC 1), 19=169 (LC 1), 20=169 (LC 1), 21=169 (LC 1), 22=169 (LC 1), 23=169 (LC 1), 24=170 (LC 1), 25=166 (LC 1), 26=71 (LC 1)

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

Tension

TOP CHORD 1-26=-63/0, 13-14=-56/0, 1-2=-8/0, 2-3=-8/0,

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

11-12=-8/0, 12-13=-8/0

BOT CHORD 25-26=0/8, 24-25=0/8, 23-24=0/8, 22-23=0/8,

21-22=0/8, 20-21=0/8, 19-20=0/8, 18-19=0/8, 17-18=0/8, 16-17=0/8, 15-16=0/8, 14-15=0/8 2-25=-149/0, 3-24=-152/0, 4-23=-151/0,

5-22=-151/0, 6-21=-151/0, 7-20=-151/0, 8-19=-151/0, 9-18=-151/0, 10-17=-150/0,

11-16=-154/0, 12-15=-141/0

### NOTES

WEBS

- 1) All plates are 1.5x4 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.

LOAD CASE(S) Standard



May 24,2023



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

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

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



ſ	Job	Truss	Truss Type	Qty	Ply	
	P210577 - Floor	F95	Floor	11	1	I58528033 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:42 ID: ySApUNbkSdBDbou1lirl6pzIGqS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcqS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC-RffcqS-Rff

Page: 1

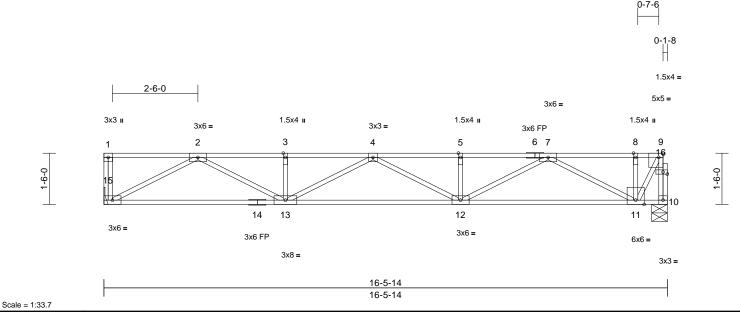


Plate Offsets (X, Y): [9:0-1-8,Edge], [16:0-1-8,0-0-12]

										_		
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.11	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.19	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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=0-5-8, 15= Mechanical

Max Grav 10=1021 (LC 1), 15=1028 (LC 1)

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

Tension

TOP CHORD 1-15=-120/0, 9-10=-1048/0, 1-2=0/0,

2-3=-2699/0, 3-4=-2699/0, 4-5=-2869/0, 5-7=-2869/0, 7-8=-624/0, 8-9=-624/0

BOT CHORD 13-15=0/1680, 12-13=0/3059, 11-12=0/2024,

10-11=0/48

WEBS 2-15=-1897/0, 2-13=0/1156, 3-13=-277/0, 4-13=-409/0. 4-12=-215/0. 5-12=-286/0.

7-12=0/959, 7-11=-1588/0, 8-11=-249/0,

9-11=0/1217

### NOTES

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

LOAD CASE(S) Standard





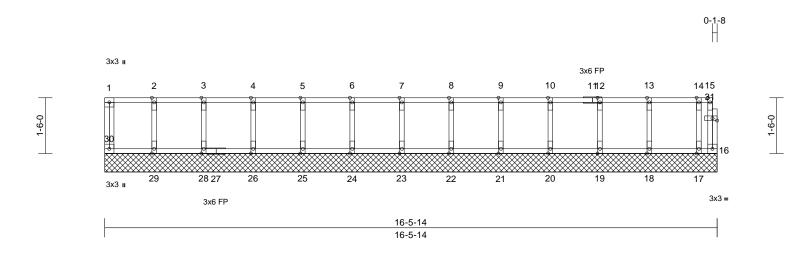




Job	Truss	Truss Type	Qty Ply		IFOFOOO 4	
P210577 - Floor	F96	Floor Supported Gable	1	1	Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:42 ID: UX8srromhYCyWF66h37VmBzIGqC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:31

Plate Offsets (X, Y): [31:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	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	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 78 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.2(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)

16=16-5-14, 17=16-5-14, 18=16-5-14, 19=16-5-14, 20=16-5-14, 21=16-5-14, 22=16-5-14, 23=16-5-14, 24=16-5-14, 25=16-5-14, 26=16-5-14, 28=16-5-14, 29=16-5-14, 30=16-5-14

Max Grav 16=6 (LC 1), 17=111 (LC 1),

18=177 (LC 1), 19=167 (LC 1), 20=169 (LC 1), 21=169 (LC 1), 22=169 (LC 1), 23=169 (LC 1), 24=169 (LC 1), 25=169 (LC 1), 26=169 (LC 1), 28=169 (LC 1),

29=169 (LC 1), 30=68 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-30=-61/0, 15-16=0/6, 1-2=-6/0, 2-3=-6/0,

3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0, 7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-12=-6/0, 12-13=-6/0. 13-14=-6/0. 14-15=-6/0

BOT CHORD 29-30=0/6, 28-29=0/6, 26-28=0/6, 25-26=0/6,

24-25=0/6, 23-24=0/6, 22-23=0/6, 21-22=0/6, 20-21=0/6, 19-20=0/6, 18-19=0/6, 17-18=0/6,

16-17=0/6

WFBS 2-29=-151/0, 3-28=-152/0, 4-26=-151/0,

5-25=-151/0, 6-24=-151/0, 7-23=-151/0, 8-22=-151/0, 9-21=-151/0, 10-20=-152/0, 12-19=-149/0, 13-18=-158/0, 14-17=-110/0

### **NOTES**

- All plates are 1.5x4 MT20 unless otherwise indicated. 1)
- 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





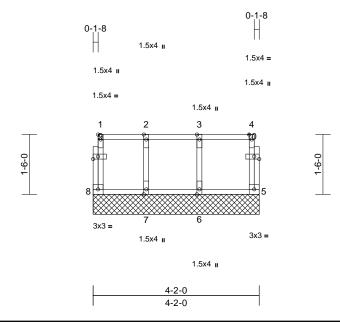




Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F97	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:42 ID:rjLunprPxAC0V5LC\_35I1dzIGiO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.9

Plate Offsets (X, Y): [1:Edge,0-0-12], [9:0-1-8,0-0-12], [10:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	25.0	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	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 23 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat) OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.

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

bracing.

REACTIONS 5=4-2-0, 6=4-2-0, 7=4-2-0, 8=4-2-0 (size) Max Grav

5=75 (LC 1), 6=180 (LC 1), 7=159

(LC 1), 8=68 (LC 1)

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

Tension

TOP CHORD 1-8=-59/0, 4-5=-67/0, 1-2=-10/0, 2-3=-10/0,

3-4=-10/0

**BOT CHORD** 7-8=0/10, 6-7=0/10, 5-6=0/10 **WEBS** 2-7=-145/0, 3-6=-160/0

### NOTES

- All plates are 1.5x4 MT20 unless otherwise indicated. 1)
- 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.

LOAD CASE(S) Standard



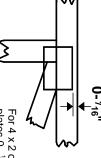


### Symbols

## PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE



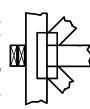
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

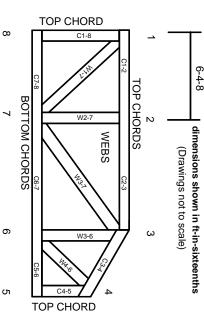
Min size shown is for crushing only

### Industry Standards:

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

ANSI/TPI1: DSB-89:

## **Numbering System**



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.