

STRUCTURAL CALCULATIONS El Burrito Azteca Trellis

2510 SE Division Street

Portland, OR 97202

Prepared for Allusa Architecture

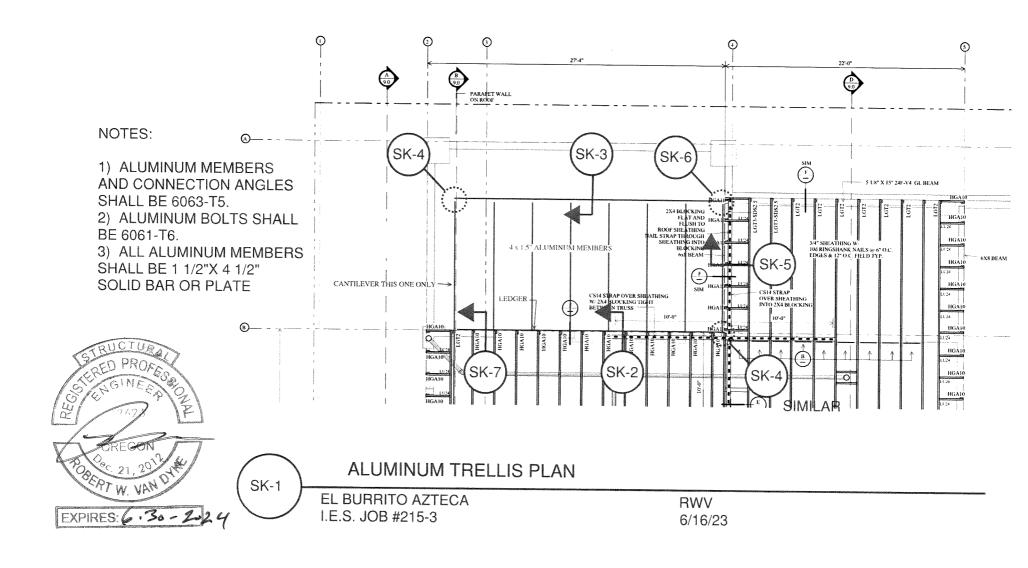
i.e. Structural Job # S215-3



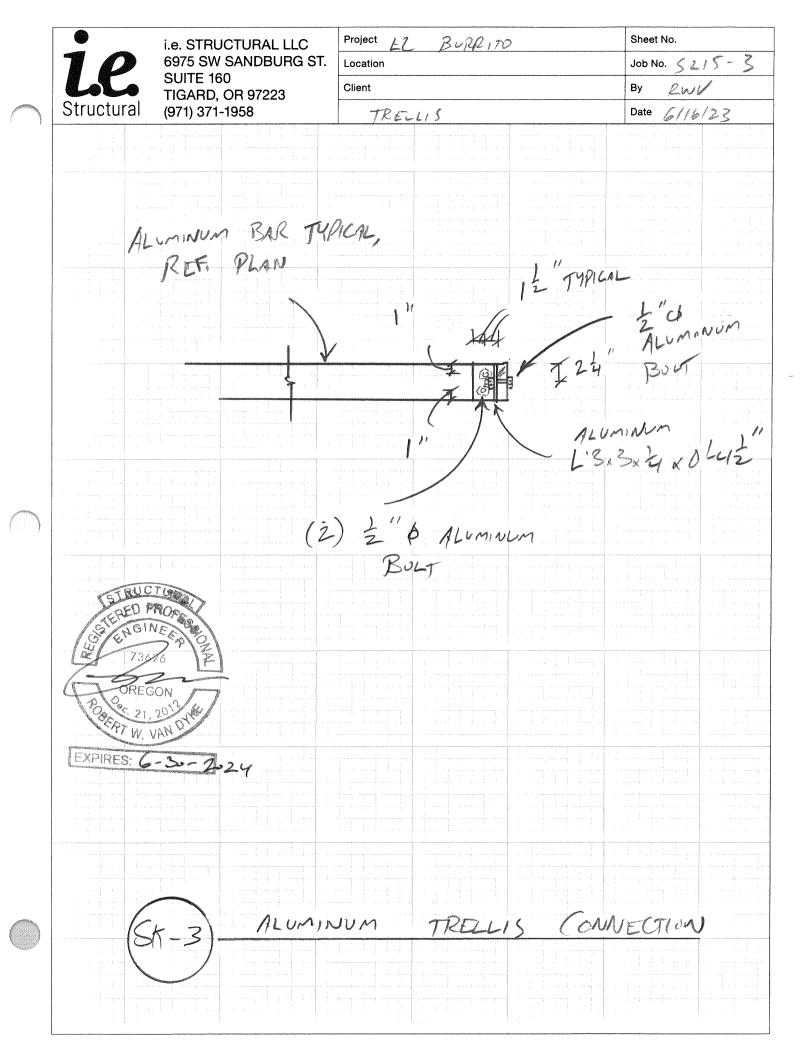
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i.e. STRUCTURAL LLC	Project	Sheet No.
6975 SW SANDBURG ST. SUITE 160	Location	Job No.
TIGARD, OR 97223	Client	Ву
Structural (971) 371-1958	TRELIS DESIGN	Date
MITERIAL: 643-15 EXTENDED Fan = 22 KS1	4/x12 ALUMINUM BAR, TYPICAL BEAM 1	KTAUT PO STRUCT
$E_{5} = 16 k \le 1$ $E = 10,1000 \text{ pc}$ $S_{x} = 6 \text{ in}^{3} 12$ $W_{1} = .0975 \times 4/412 \times 12$ $= 7 Plf$ $P \times 6$ $P \times 7 \times $	Brick Por Por Spar Por Ross	
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i.e	e. STRUCTURAL LLC	Project			Sheet No.	2
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	UITE 160 IGARD, OR 97223	Client			Ву	
Structural (9	71) 371-1958	TRELIS	DESIGN	***************************************	Date	·
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SCROUS # 10 SCR P100 =	e TRUSS BAC, 245/24/1 115/10x.19=0	16 SP1W 17 PF2 # 79 LJ3				

	i.e. STRUCTURAL LLC	Project			Sheet No.	3
10	6975 SW SANDBURG ST.	Location			Job No.	
Le	SUITE 160	Client			Ву	
Structural	TIGARD, OR 97223 (971) 371-1958				Date	
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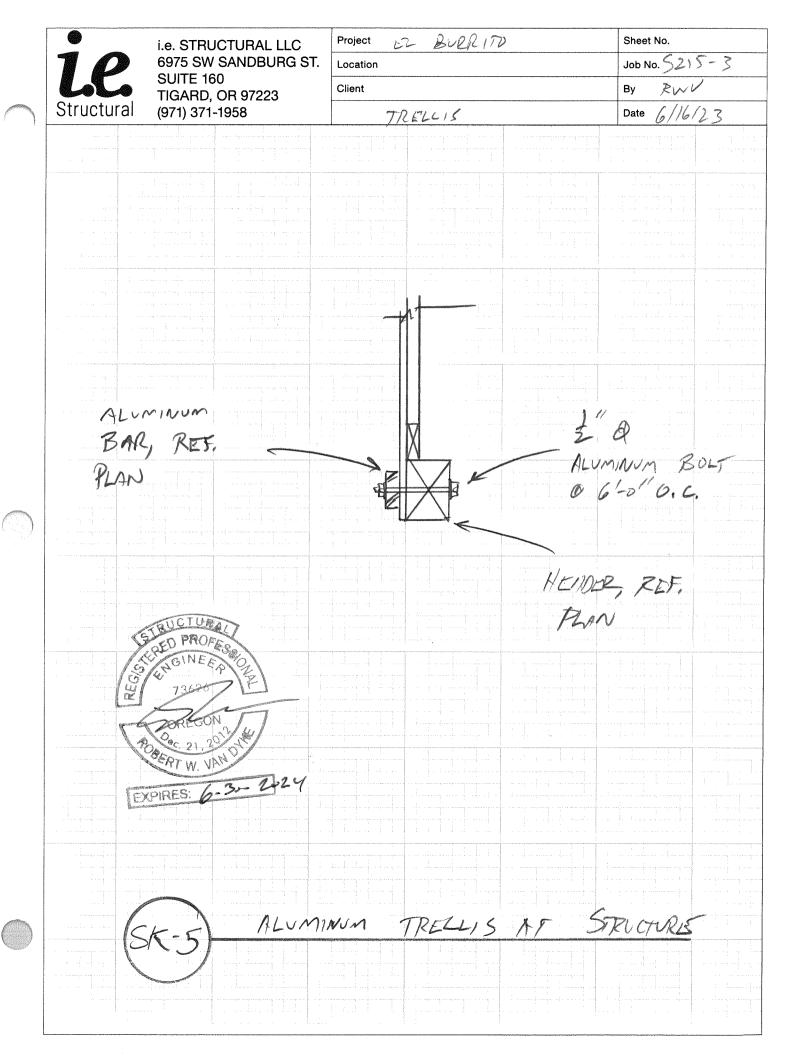


Project EZ Sheet No. B-22/70 i.e. STRUCTURAL LLC 6975 SW SANDBURG ST. Job No. 5215-3 Location SUITE 160 By RNV Client **TIGARD, OR 97223** Structural 6/16/23 (971) 371-1958 TRELLIS ALUMINUM L3x3x 4 x0-42" EXPIRES: 6-30- 2024 TYPICAL 5"O ALVMINUM BULT OR TAREADED 2 D ALIMINUM BOLTS ROD WI ALIMINUM ALVMINUM BAR, NAYIDE PEF. PLAN HEADER, REF. PLAN ALUMINUM LEDGER AT TRELLIS

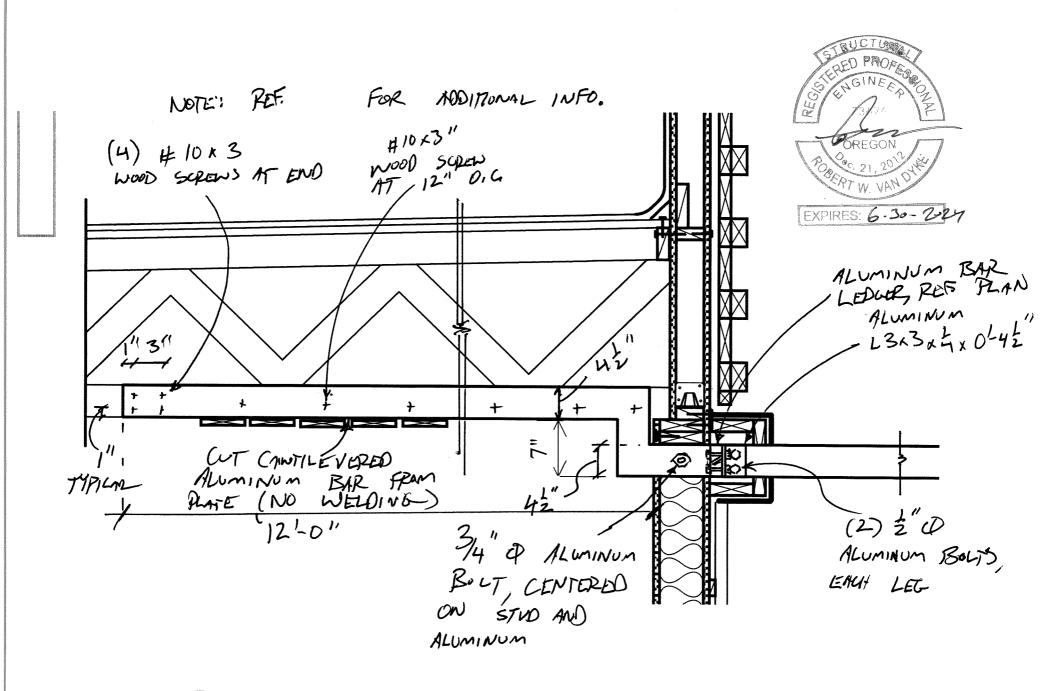


a BURRIO Project Sheet No. i.e. STRUCTURAL LLC 6975 SW SANDBURG ST. Job No. 5215-3 Location **SUITE 160** 2WV Client **TIGARD, OR 97223** (971) 371-1958 TREZZIS Date 6/16/23 (2) \frac{1}{2} \delta ALUMINUM

(2) \frac{1}{2} BOLTS EXPIRES: 6.30-2024 ALUMINUM L3x3x + x0-42" ALUMINUM BAR, REF. PLON TYPICIL NOTE: ROF. FOR ADDITIONAL INFO. ALUMINUM TRELLIS CONNECTION



BURRIN Project Sheet No. i.e. STRUCTURAL LLC 6975 SW SANDBURG ST. Job No. 5215 - 3 Location **SUITE 160** Client TIGARD, OR 97223 Structural (971) 371-1958 6/16/23 TREZLIS ALUMINUM L5x3x & x 0-4/2," CUT DOWN LONG LEG EUT, TYPICAL HEHDER, REF PLIN ALVMINUM EAR, REF. PLAN ALUMINUM L3x3x t1x0+42" EXPIRES: 6.3.-2-27 ALUMINUM BAR, REF. PLAN ALUNINUM TREZUIS AT STRUCTURE



SK-7 ALUMINUM BAR OUTRIGGER AT TRELLIS

EL BURRITO AZTECA

RW

L.E.S. JOB # 6/16/23

PAINTED END OF FLOOR TRUSS IS THE TOP LEFT END OF TRUSS INDICATED BY THE TRIANGLE SHOWN ON LAYOUT AND THE TOP LEFT END OF TRUSS DRAWING ON STAMPED ENGINEERING PAGE

City Of Portland REVIEWED FOR CODE COMPLIANCE

Permit #: 21-072301-REV-01-CO

S2160-026b

SE 21st Ave is the Left side

Use LUS24 hangers UNO

FLOOR NOTES

ALL BEAMS, RIM, OR ANYTHING ELSE NEEDED TO COMPLETE FLOOR SYSTEM TO BE SUPPLIED AND SIZED BY OTHERS. BUILDERS FIRSTSOURCE TRUSS TO SUPPLY OPEN WEB AND TRUSS TO TRUSS CONNECTION ONLY.

ALL CONCENTRATED LOADS BEING TRANSFERED DOWN FROM ABOVE TO BE SQUASHED BLOCKED AS TO NOT IMPOSE ANY ADDITIONAL LOADS ON TOP OF FLOOR TRUSSES.

CAUTION:

NEVER CUT, SAW, DRILL, OR MODIFY FLOOR TRUSS WITHOUT THE APPROVAL OF BUILDERS FIRSTSOURCE TRUSS DEPT.

ALL 2X6 STRONGBACKING MUST BE INSTALLED ON EDGE AT 10' ON CENTER AND FASTENED WITH 3-16d NAILS. STRONGBACKS TO BE ATTACHED TO WALLS AT THEIR ENDS OR RESTRAINED BY OTHER MEANS.

WARNING:

DO NOT INSTALL TRUSSES BACKWARDS OR UPSIDE DOWN. **FOLLOW LAYOUT**

TC LL = 100 TC DL = 20BC LL = 0BC DL = 6Total Load = 126

TL I/d >= 360

Truss depth = 1-9-0

05/05/2023 LL I/d >= 480

NO EXCEPTION TAKEN MAKE CORRECTIONS NEEDED WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS

72-05-00 27-04-00 27-03-00 10-06-00 7-04-00 **R2** 7-1/4" Heel: (1-5/8)/12 slope 3-8-0 Parapet 8-00-00 8-0-0 Cantilever NO Parapet here Outside Uncovered wall above. (1/8)/12 Slope FT05(2) FT07(2) Outside Covered Brace For FT2B FT02(6) Details 4.1 Prints (1/8)/12 Slope Flat roof 1-9-0 deep **Bearing Wall** Details 4.1 Prints FT12(6) FT11(5) Slope built up on foam roofing lgn*o*re this clo from previous Ignor this clo FT15A 24-00-00 Stairs 8 24" opening for OD duct 8-07-00 Stairs Bearing Wall Slope Mechanical(s) 2-06-0p Bearing Wall Lower Roof 5-08-00 Flat-roof 1-9-0 deep 2x10 2-00-00 21-03-04 13-03-00 9-04-00 62-07-00 72-05-00

> **RECEIVED** By BDS at 8:30 am, Nov 20, 2023

DO NOT CUT, DRILL, NOTCH, OR MODIFY TRUSS MEMBERS WITHOUT PRIOR APPROVAL FROM BUILDERS FIRSTSOURCE TRUSS

10 50 NTS 0 N Schmidt Louis Swing 4/21/2023 Ray Ave 97005 -5971 Beaverton, OR Phone: 971-371 5350 Source Portland, OR

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MiTek USA, Inc.

MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661 Telephone 916-755-3571

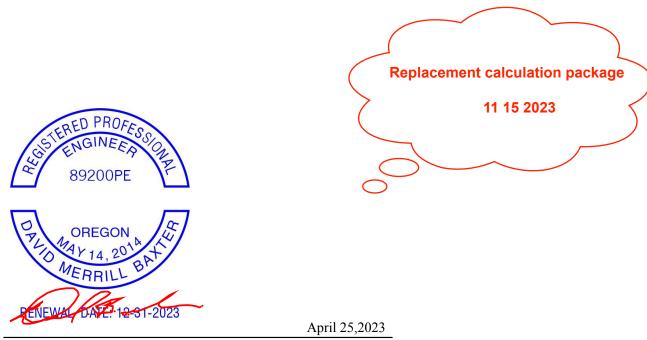
Re: 2795053

Deform - Aztec Floor / Lower Roof

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Beaverton, OR).

Pages or sheets covered by this seal: R75892796 thru R75892828

My license renewal date for the state of Oregon is December 31, 2023.



Baxter, David

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



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT01	Roof Special Supported Gable	1	1	Job Reference (optional)	R75892796

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:45 ID:?iQRntG9V0flPdd69xiDRFz9fh2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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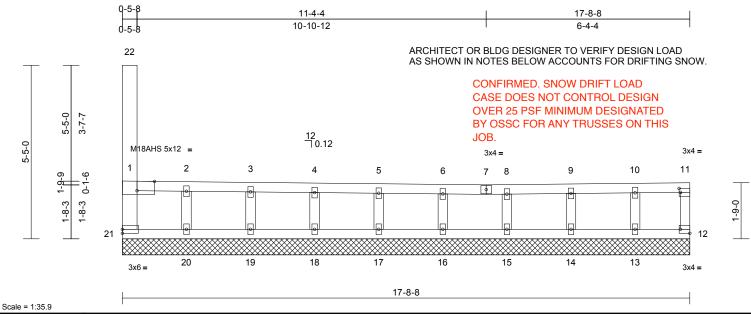


Plate Offsets (X, Y): [1:0-6-8,Edge], [11:Edge,0-1-8], [12:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.30	Vert(TL)	n/a	-	n/a	999	M18AHS	169/162
TCDL	20.0	Rep Stress Incr	NO	WB	0.08	Horiz(TL)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	6.0	l		1							Weight: 73 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G

WEBS 2x4 DF Std G *Except* 22-21:2x6 DF No.2

OTHERS 2x4 DF Std G

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

12=17-8-8, 13=17-8-8, 14=17-8-8.

15=17-8-8, 16=17-8-8, 17=17-8-8, 18=17-8-8, 19=17-8-8, 20=17-8-8,

21=17-8-8

Max Horiz 21=-189 (LC 10)

Max Uplift 12=-128 (LC 11), 13=-104 (LC 10), 20=-237 (LC 11), 21=-208 (LC 10)

12=264 (LC 25), 13=550 (LC 26), Max Grav

14=592 (LC 2), 15=585 (LC 2),

16=584 (LC 2), 17=583 (LC 2), 18=584 (LC 2), 19=586 (LC 2),

20=686 (LC 25), 21=347 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-226/153, 2-3=-224/150, 3-4=-226/149, 4-5=-227/148, 5-6=-228/147, 6-7=-229/146,

7-8=-229/145, 8-9=-229/146, 9-10=-228/148, 10-11=-225/148, 11-12=-196/93,

1-21=-272/284, 1-22=0/0

BOT CHORD 20-21=-172/270, 19-20=-172/270,

18-19=-172/270, 17-18=-172/270, 16-17=-172/270, 15-16=-172/270,

14-15=-172/270, 13-14=-172/270,

12-13=-172/270

WEBS 2-20=-571/230, 3-19=-563/89, 4-18=-560/29,

5-17=-559/23, 6-16=-560/21, 8-15=-561/21,

9-14=-567/37, 10-13=-530/178

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16: Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) A plate rating reduction of 20% has been applied for the green lumber members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 21, 128 lb uplift at joint 12, 237 lb uplift at joint 20 and 104 lb uplift at joint 13.

- 15) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 16) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 17) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-11=-130, 12-21=-12



RENEWAL DATE: 12-31-2023 April 25,2023

NOTES

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

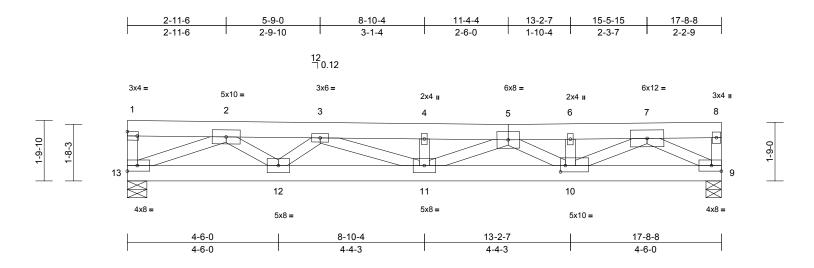
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 Salety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT02	Roof Special	10	1	Job Reference (optional)	R75892797

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:45 ID:9jZvuu5xOv8YUaW4t4v5wbz9fdO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:34.3

Plate Offsets (X, Y): [1:Edge,0-1-8], [10:0-1-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.30	11	>699	480	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.57	11	>364	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.10	9	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 105 lb	FT = 11%

LUMBER

TOP CHORD 2x6 DF No.2 **BOT CHORD** 2x6 DF 2400F 2.0E

2x4 DF Std G *Except* 2-12,7-10:2x4 DF WEBS

No.1&Btr G

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-5-1 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 9=0-5-8 13=0-7-0

Max Grav 9=2542 (LC 1), 13=2542 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-13=-476/0, 1-2=-182/0, 2-3=-6026/0

3-4=-8439/0, 4-5=-8440/0, 5-6=-6331/0, 6-7=-6330/0, 7-8=-137/0, 8-9=-331/0

BOT CHORD 12-13=0/4358, 11-12=0/7394, 10-11=0/7992,

9-10=0/3564

WEBS 5-11=0/495, 5-10=-1996/0, 2-12=0/2176,

2-13=-4615/0, 3-12=-1972/0, 3-11=0/1128, 4-11=-626/0, 6-10=-445/0, 7-10=0/3160,

7-9=-4023/0

NOTES

- A plate rating reduction of 20% has been applied for the 1) green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 1-8=-280, 9-13=-12



RENEWAL DATE: 12-31-2023 April 25.2023



MiTek[®]

J	Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2	2795053	FT2A	Roof Special	1	1	Job Reference (optional)	R75892798

7-6-13

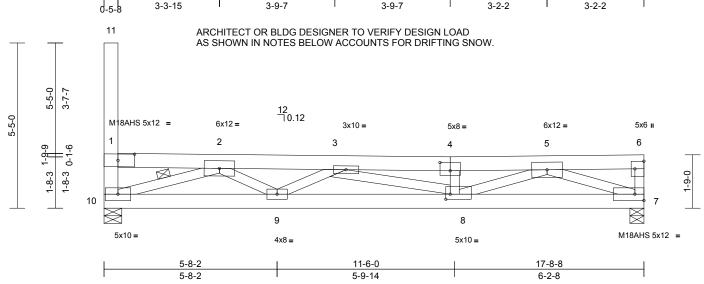
Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005

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Page: 1





Scale = 1:37.8

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

3-9-7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.29	8-9	>716	480	M18AHS	169/162
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.56	8-9	>371	360	MT20	220/195
TCDL	20.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.10	7	n/a	n/a	1	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.07	8-9	>999	240		
BCDL	6.0										Weight: 112 lb	FT = 20%

LUMBER

TOP CHORD 2x6 DF 2400F 2.0E BOT CHORD 2x6 DF 2400F 2.0E

WEBS 2x4 DF Std G *Except* 6-7,5-7,5-8:2x4 DF No.1&Btr G, 11-10:2x6 DF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. **WEBS** 1 Row at midpt 2-10

(size) REACTIONS 7=0-5-8, 10=0-7-0

Max Horiz 10=-188 (LC 10) Max Grav 7=2530 (LC 2), 10=2530 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-745/379, 2-3=-6716/346,

3-4=-7932/230, 4-5=-7547/214, 5-6=-293/11,

6-7=-508/16, 1-10=-687/76, 1-11=0/0

9-10=-444/5263. 8-9=-355/8269.

7-8=-154/4893

WFBS 4-8=-1172/47, 2-9=-118/1757,

2-10=-4946/92, 3-9=-1875/163,

3-8=-357/107, 5-7=-4984/153, 5-8=-92/2914

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-6=-130, 7-10=-12



RENEWAL DATE: 12-31-2023 April 25,2023



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

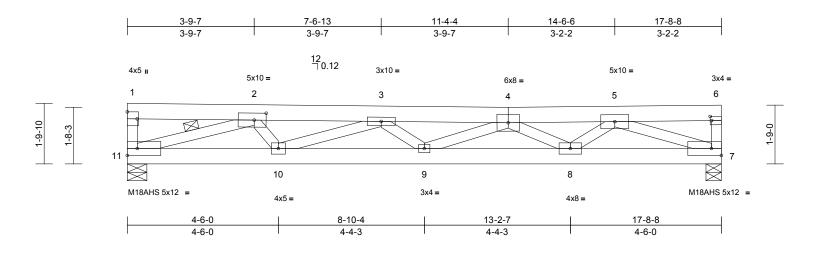
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss	Truss Type Qty Ply Deform - Aztec Floor / Lower Roof		Deform - Aztec Floor / Lower Roof		
2795053	FT2B	Roof Special	1	1	Job Reference (optional)	R75892799

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Scale = 1:34.3

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

		1			-	-	-	-	-			•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.29	9	>719	480	M18AHS	169/162
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.56	8-9	>375	360	MT20	220/195
BCLL	0.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.11	7	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 103 lb	FT = 11%

LUMBER

TOP CHORD 2x6 DF 2400F 2.0E *Except* 4-6:2x6 DF

No.2

BOT CHORD 2x6 DF 2400F 2.0E

WEBS 2x4 DF Std G *Except* 5-7,2-11:2x4 DF

No.1&Btr G

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-6-6 oc purlins, except end verticals.

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

bracing. WEBS

1 Row at midpt 2-11 REACTIONS (size) 7=0-5-8, 11=0-7-0

Max Grav 7=2542 (LC 1), 11=2542 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD

1-11=-533/0, 1-2=-735/564, 2-3=-6009/0, 3-4=-8292/0, 4-5=-6162/0, 5-6=-567/467,

6-7=-470/0

BOT CHORD 10-11=0/5496, 9-10=0/8345, 8-9=0/8048,

7-8=0/4891

WEBS 5-7=-5089/0, 2-11=-5597/0, 2-10=-49/1085,

3-10=-2565/165 3-9=-356/362

4-9=-502/673, 4-8=-2267/54, 5-8=-16/1748

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- This truss has been designed for a total drag load of 3400 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-8-8 for 192.0 plf.
- 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.
- 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: 1-6=-280 (F=-40), 7-11=-12



RENEWAL DATE: 12-31-2023 April 25,2023

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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	Deform - Aztec Floor / Lower Roof	
2795053	FT2C	Roof Special	1	1	Job Reference (optional)	R75892800

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:43 ID:9jZvuu5xOv8YUaW4t4v5wbz9fdO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

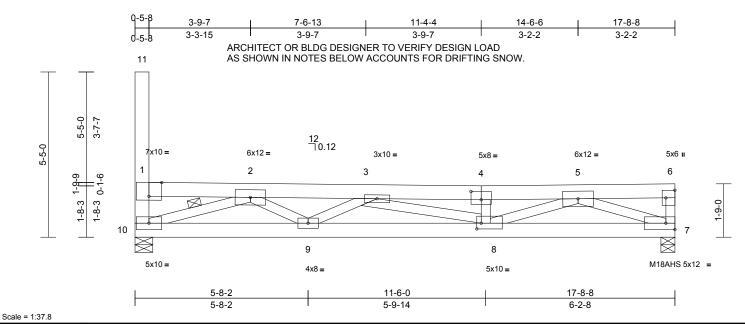


Plate Offsets (X, Y): [1:0-5-0,Edge], [4:0-4-0,0-3-4], [6:Edge,0-3-9], [8:0-1-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.29	8-9	>714	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.56	8-9	>369	360	M18AHS	169/162
TCDL	20.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.07	8-9	>999	240		
BCDL	6.0										Weight: 112 lb	FT = 20%

LUMBER

TOP CHORD 2x6 DF 2400F 2.0E *Except* 4-6:2x6 DF

No.2

BOT CHORD 2x6 DF 2400F 2.0E

WEBS 2x4 DF No.1&Btr G *Except* 11-10:2x6 DF

No.2, 8-4,2-9,3-9,3-8:2x4 DF Std G

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. **WEBS** 1 Row at midpt 2-10

REACTIONS (size) 7=0-5-8, 10=0-7-0

Max Horiz 10=-188 (LC 12)

Max Grav 7=2530 (LC 2), 10=2530 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-675/376, 2-3=-6763/315,

3-4=-7911/195, 4-5=-7530/180, 5-6=-292/9,

6-7=-488/15, 1-10=-647/74, 1-11=0/0

BOT CHORD 9-10=-425/5324, 8-9=-323/8266,

7-8=-137/4925 WFBS

4-8=-1160/46, 2-9=-104/1741,

2-10=-5104/76, 3-9=-1814/160,

3-8=-375/110, 5-7=-5020/137, 5-8=-72/2861

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-130, 7-10=-12



RENEWAL DATE: 12-31-2023 April 25,2023



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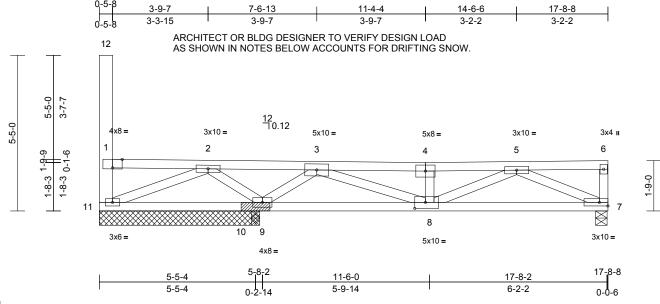
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT03	Roof Special	1	1	Job Reference (optional)	R75892801

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries. Inc. Fri Apr 21 12:25:46 ID:31kOn1y5HCxsuniB47y7zYz9fMo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:40.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.08	7-8	>999	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.16	7-8	>875	360		
TCDL	20.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.02	8	>999	240		
BCDL	6.0										Weight: 89 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G

WEBS 2x4 DF Std G *Except* 12-11:2x6 DF No.2,

3-8:2x4 DF No.1&Btr G BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 7=0-4-13, 9=5-7-0, 11=5-7-0

Max Horiz 11=-189 (LC 10) Max Uplift 11=-56 (LC 10)

Max Grav 7=1484 (LC 2), 9=3328 (LC 2),

11=258 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-620/373, 2-3=-71/2091, 3-4=-2760/11,

4-5=-2658/7, 5-6=-134/13, 6-7=-399/12,

1-11=-446/44, 1-12=0/0

BOT CHORD 9-11=-439/300, 8-9=-51/461, 7-8=-50/2334 **WEBS**

4-8=-954/32, 2-9=-2126/224, 2-11=-216/603,

3-9=-3189/74, 3-8=-8/2440, 5-7=-2435/51,

5-8=0/353

NOTES

- 1) 2x4 DF No.1&Btr G bearing block 12" long at jt. 9 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 565psi.
- Unbalanced roof live loads have been considered for this design.

- 3) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-6=-130, 7-11=-12



RENEWAL DATE: 12-31-2023 April 25.2023

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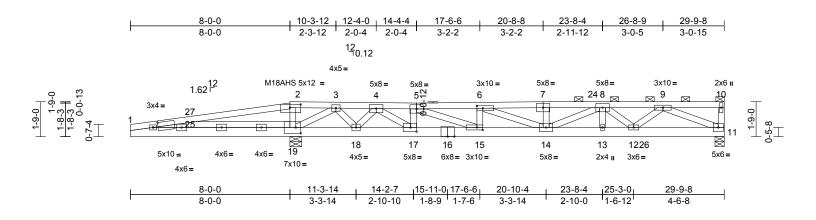
ABISTIPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT04	Roof Special	8	2	Job Reference (optional)	R75892802

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:46 ID:d9cqfhE4TT4PvRvGSXJhSiz9flZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.8

Plate Offsets (X, Y): [1:0-3-0,0-2-9], [2:0-6-8,0-2-0], [6:0-3-9,0-1-8], [15:0-3-9,0-1-8], [17:0-3-9,0-2-8], [19:0-3-0,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.26	14-15	>998	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.54	14-15	>477	360	M18AHS	169/162
TCDL	20.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.08	11	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.20	15-17	>999	240		
BCDL	6.0										Weight: 306 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No 1&Btr G

2x6 DF 2400F 2.0E *Except* 16-11:2x6 DF

No.2, 19-1:2x4 DF No.1&Btr G

WFBS 2x4 DF Std G BRACING

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or

4-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-15 max.): 7-10.

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

bracing.

REACTIONS (size) 11=0-5-8, 19=0-7-0

19=143 (LC 46) Max Horiz

Max Uplift 11=-1004 (LC 43), 19=-2093 (LC

40)

Max Grav 11=2749 (LC 2), 19=5587 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

2-3=-7090/7566, 3-4=-6530/4908,

4-5=-6586/2977, 5-6=-8720/1824,

6-7=-9172/971, 7-8=-9093/3010,

8-9=-6369/1288, 9-10=-1998/1922, 10-11=-415/5. 1-2=-5642/5946

BOT CHORD 1-19=-6836/6576, 18-19=-6482/7380,

17-18=-6369/8638, 15-17=-6511/9836

14-15=-6222/10150, 13-14=-2985/8159,

12-13=-4218/8159, 11-12=-2158/4886

WEBS 2-19=-1669/845, 8-13=-28/223,

6-15=-1574/1301, 5-15=-3269/4088, 5-17=-1915/1114, 4-17=-2177/3927,

4-18=-3586/1548, 3-18=-1182/2213,

3-19=-3996/1801, 7-14=-688/0, 6-14=-3502/3366, 8-14=-2724/3326,

8-12=-2819/1782, 9-12=-1574/2535,

9-11=-5196/2313

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-6-0 OC.
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 26-7-12, Exterior(2E) 26-7-12 to 29-7-12 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) A plate rating reduction of 20% has been applied for the green lumber members.

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2093 lb uplift at joint 19.
- 12) LGT2 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 15) This truss has been designed for a total drag load of 683 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-9-8 for 788.9 plf.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin ng the top and/or bottom chord.



RENEWAL DATE: 12-31-2023 April 25,2023

Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT04	Roof Special	8	2	Job Reference (optional)	R75892802

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:46 ID: d9 cqfh E4TT4 PvRvGSXJhSiz9 flZ-RfC? PsB70 Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? flower flo

Page: 2

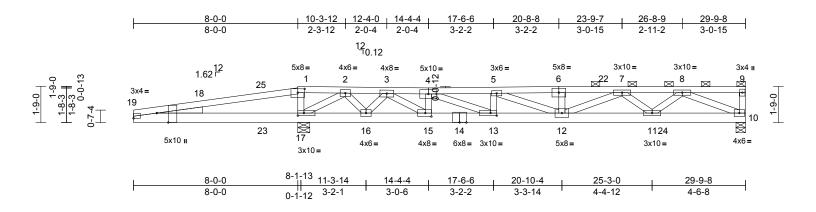
LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 2-10=-130, 11-20=-12, 1-2=-90



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT4A	Roof Special	1	2	Job Reference (optional)	R75892803

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:44 ID:HslqXaTXNcs hhgPisSczSzyOyZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:56.1

Plate Offsets (X, Y): [1:0-4-0,0-2-4], [13:0-3-9,0-1-8], [15:0-3-9,0-2-0], [17:0-3-9,0-1-8], [19:0-5-8,Edge], [19:Edge,0-3-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.32	12-13	>814	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.55	12-13	>466	360		
TCDL	7.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.12	13-15	>999	240		
BCDL	10.0										Weight: 292 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No 1&Btr G

BOT CHORD 2x6 DF 2400F 2.0E *Except* 14-19:2x6 DF

No.2 2x4 DF Std G

WEBS WEDGE Left: 2x4 DF Std G

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(4-0-3 max.): 6-9

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 10=0-5-8, 17=0-7-0 17=2388 (LC 46) Max Horiz

Max Uplift 10=-744 (LC 43), 17=-1571 (LC 40)

Max Grav 10=2796 (LC 2), 17=4301 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3481/4176, 2-3=-3675/2007,

3-4=-8142/435, 4-5=-10047/0.

5-6=-9942/276, 6-7=-9870/1417, 7-8=-6711/524, 8-9=-1988/1897.

9-10=-409/2, 1-18=-2056/2318

BOT CHORD 18-19=-2570/2594, 17-18=-5394/5179, 16-17=-3434/4280, 15-16=-3830/5795,

13-15=-4130/8139, 12-13=-4271/10042,

11-12=-3122/8358, 10-11=-1652/5038

1-17=-1212/344, 4-15=-1598/905,

2-16=-1059/2652, 2-17=-4688/1558 3-16=-2882/1114, 3-15=-1671/3255,

8-10=-5285/1750, 5-13=-1220/1013,

4-13=-2572/3290, 5-12=-2794/2736,

6-12=-622/0, 7-12=-2315/2988,

7-11=-2258/1380, 8-11=-1220/2292

NOTES

WEBS

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

Top chords connected as follows: 2x4 - 1 row at 0-6-0 OC.

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

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B),

unless otherwise indicated.

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 3-3-8 to 6-3-8, Interior (1) 6-3-8 to 26-7-12, Exterior(2E) 26-7-12 to 29-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1571 lb uplift at joint 17.
- 11) TBE6 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) This truss has been designed for a total drag load of 683 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-9-8 for 788.9 plf.
- 15) This truss design requires that a minimum of 7/16" structural wood sheathing be app directly to the top chord and 1/2" gypsum sheetroo papplied the bottom chord directly to



RENEWAL DATE: 12-31-2023 April 25.2023

Continued on page 2

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

Design Valid to its 80 mly with win New Commercials. This sessign is based only upon parameters shown, and is not an individual outlining 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/TPI 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	Deform - Aztec Floor / Lower Roof	
2795053	FT4A	Roof Special	1	2	Job Reference (optional)	R75892803

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:44 $ID: HslqXaTXNcs_hhgPisSczSzyOyZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 2

16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

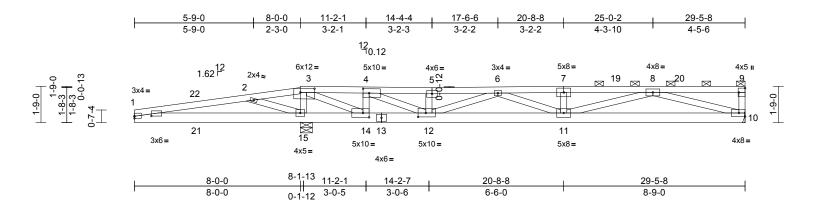
LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-9=-104, 10-19=-20, 1-18=-64

Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT05	Roof Special	2	2	Job Reference (optional)	R75892804

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:47 ID:BqUGfdrFyDBYGOmdMmOa6Kz9evF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:55.6

Plate Offsets (X, Y): [1:0-9-13,0-0-2], [1:Edge,0-1-4], [3:0-8-4,0-2-4], [4:0-3-9,0-2-8], [9:Edge,0-3-9], [12:0-4-8,0-2-4], [14:0-3-9,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.26	11-12	>961	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.55	11-12	>460	360		
TCDL	20.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.05	11-12	>999	240		
BCDL	6.0										Weight: 285 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No 1&Btr G BOT CHORD 2x6 DF 2400F 2 0F

WEBS 2x4 DF Std G *Except* 4-12,3-14:2x4 DF

No.1&Btr G

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(3-11-4 max.): 7-9

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 10= Mechanical, 15=0-7-0

Max Horiz 15=41 (LC 13) Max Uplift 15=-33 (LC 10)

Max Grav 10=2694 (LC 2), 15=5544 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 3-4=-2110/341, 4-5=-5544/0, 5-6=-5651/0,

6-7=-8743/0, 7-8=-8738/0, 8-9=-413/0,

9-10=-581/0. 1-2=-1152/3146.

2-3=-1557/5251

BOT CHORD 1-15=-3031/1145, 14-15=-5609/1567, 12-14=-341/2144, 11-12=0/8389,

10-11=0/6598

WEBS 3-15=-4006/0, 5-12=-945/0, 7-11=-879/0,

6-11=-340/380, 6-12=-2956/182,

8-11=0/2246, 8-10=-6492/0, 4-14=-3092/0,

4-12=0/5440, 3-14=0/6701, 2-15=-2261/460

NOTES

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

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

Bottom chords connected as follows: 2x6 - 2 rows

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16: Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 26-3-12, Exterior(2E) 26-3-12 to 29-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 15. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

- 13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-9=-130, 10-16=-12, 1-3=-90



RENEWAL DATE: 12-31-2023 April 25.2023



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

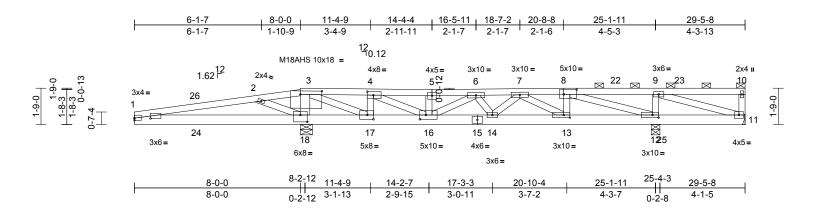
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Deform - Aztec Floor / Lower Roof	
2795053	FT06	Roof Special	1	2	Job Reference (optional)	R75892805

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:48 ID:Sjl45CbCpmSz9gLUMjUaUvz9et -RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:55.6

Plate Offsets (X, Y): [1:0-9-5,0-0-2], [1:Edge,0-1-4], [3:1-0-8,0-2-0], [4:0-3-9,0-2-0], [8:0-7-8,0-2-12], [12:0-3-9,0-1-8], [13:0-3-9,0-1-8], [16:0-3-8,0-2-8], [17:0-3-9,0-2-8], [18:0-4-0,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.09	13-14	>999	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.18	13-14	>999	360	M18AHS	169/162
TCDL	20.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.09	13-14	>999	240		
BCDL	6.0										Weight: 290 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No 1&Btr G **BOT CHORD** 2x6 DF 2400F 2 0F

WEBS 2x4 DF Std G *Except* 18-3:2x6 DF No.2,

3-17:2x4 DF No.1&Btr G

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(6-0-0 max.): 8-10.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 11= Mechanical, 12=0-5-1,

18=0-7-0

18=143 (LC 46) Max Horiz Max Uplift 11=-444 (LC 39), 12=-813 (LC 43),

18=-2424 (LC 40)

11=242 (LC 42), 12=3593 (LC 2), Max Grav

18=4855 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

3-4=-4803/4011, 4-5=-3932/2459, TOP CHORD

5-6=-5607/3859, 6-7=-3756/1818,

7-8=-2728/1606 8-9=-4445/5005

9-10=-2841/2855, 10-11=-453/0,

1-2=-4143/4436, 2-3=-5615/6153 **BOT CHORD**

1-18=-6911/6651, 17-18=-9785/9273, 16-17=-7395/8186, 14-16=-3340/5205,

13-14=-3964/5545, 12-13=-5002/5992,

11-12=-1932/964

WEBS 3-18=-3266/2200, 4-17=-2367/1465, 4-16=-3555/4408, 5-16=-681/0,

6-16=-3352/3171, 7-13=-3651/2891,

8-13=-1253/1568, 8-12=-5926/3984,

9-12=-1985/184, 9-11=-1013/2004,

6-14=-1920/1798, 7-14=-2230/2552,

2-18=-2127/425, 3-17=-3601/5405

NOTES

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

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

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

Web connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 26-3-12, Exterior(2E) 26-3-12 to 29-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) A plate rating reduction of 20% has been applied for the green lumber members.

- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 444 lb uplift at joint 11, 2424 lb uplift at joint 18 and 813 lb uplift at joint
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 15) This truss has been designed for a total drag load of 683 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-5-8 for 790.3 plf.
- 16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict or the orientation of the purlin along the top and 17) Graphical purlin repr pict the size NGINE 01 bottom chord.



RENEWAL DATE: 12-31-2023 April 25,2023

Continued on page 2

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	Deform - Aztec Floor / Lower Roof	
2795053	FT06	Roof Special	1	2	Job Reference (optional)	R75892805

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:48 $ID: Sjl45CbCpmSz9gLUMjUaUvz9et_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f$

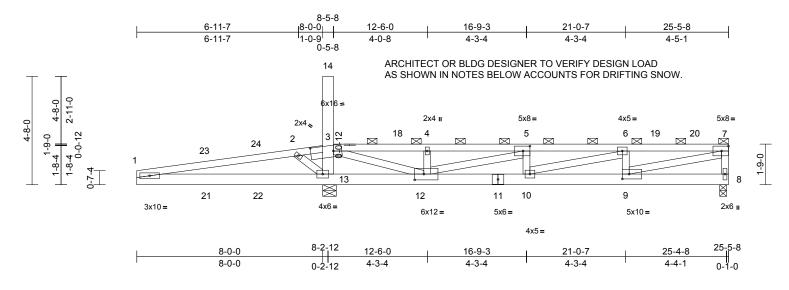
LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 3-10=-130, 11-19=-12, 1-3=-90

Page: 2

Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT07	Roof Special	2	2	Job Reference (optional)	R75892806

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:49 ID:Ni7P_GNzn7Dw2N2P?A4C_Cz9emp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:49.6

Plate Offsets (X, Y): [3:0-11-12,0-3-0], [5:0-3-9,0-2-8], [9:0-3-9,0-2-8], [12:0-4-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.18	10	>999	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.23	10	>879	360		
TCDL	20.0	Rep Stress Incr	Yes	WB	0.44	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.02	10	>999	240		
BCDL	6.0										Weight: 255 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G *Except* 1-3:2x4 DF

2400F 2.0E

BOT CHORD 2x6 DF 2400F 2.0E

WEBS 2x4 DF Std G *Except* 14-13:2x6 DF No.2,

12-3,12-5,10-6,9-7:2x4 DF No.1&Btr G

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-4 max.): 3-7, 13-14.

Except:

10-0-0 oc bracing: 3-14

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

bracing

REACTIONS (size) 8=0-3-8, 13=0-7-0

Max Horiz 13=158 (LC 15)

Max Uplift 8=-150 (LC 13), 13=-465 (LC 12)

Max Grav 8=2049 (LC 51), 13=4725 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

3-4=-3673/1137, 4-5=-3905/1102, TOP CHORD

5-6=-6063/504, 6-7=-4723/352.

7-8=-1915/154, 3-13=-2617/383, 3-14=0/0,

1-2=-1354/3783, 2-3=-1595/5322 1-13=-3639/1353, 12-13=-5281/1930,

10-12=-521/6063, 9-10=-369/4723,

8-9=-31/250

3-12=-624/5603, 4-12=-1117/128,

5-12=-3556/664, 5-10=-341/173,

6-10=-379/1408, 6-9=-1508/153, 7-9=-358/4698, 2-13=-2170/362

NOTES

WEBS

BOT CHORD

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

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

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

- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -8-0-0 to -5-0-0, Interior (1) -5-0-0 to 0-2-12. Exterior(2E) 0-2-12 to 3-2-12. Interior (1) 3-2-12 to 17-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 10) A plate rating reduction of 20% has been applied for the green lumber members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 13. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



RENEWAL DATE: 12-31-2023 April 25,2023



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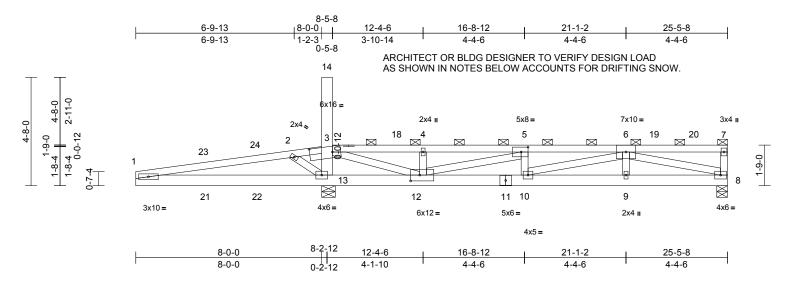
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Salety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



400 Sunrise Aven ue. Suite 270 Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT08	Roof Special	3	2	Job Reference (optional)	R75892807

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:49 ID:GVRLVrYVjXAbRdq2mlfQaYz9eZg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:49.6

Plate Offsets (X, Y): [3:0-11-12,0-3-0], [5:0-3-9,0-2-8], [12:0-4-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.18	10	>999	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.23	10	>879	360		
TCDL	20.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.02	10	>999	240		
BCDL	6.0										Weight: 255 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G *Except* 1-3:2x4 DF

2400F 2.0E

BOT CHORD 2x6 DF 2400F 2.0E

WEBS 2x4 DF Std G *Except* 3-12:2x4 DF

No.1&Btr G, 14-13:2x6 DF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-3 max.): 3-7, 13-14.

Except:

10-0-0 oc bracing: 3-14

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

bracing

REACTIONS (size) 8=0-5-8, 13=0-7-0

Max Horiz 13=158 (LC 15)

Max Uplift 8=-150 (LC 13), 13=-465 (LC 12)

Max Grav 8=2049 (LC 51), 13=4725 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

3-4=-3613/1156, 4-5=-3839/1121,

5-6=-6027/502, 6-7=-256/22, 7-8=-468/71,

3-13=-2750/400, 3-14=0/0, 1-2=-1341/3719,

2-3=-1602/5358

1-13=-3578/1340, 12-13=-5323/1933,

10-12=-520/6027, 9-10=-369/4729,

8-9=-369/4729

WEBS 3-12=-619/5587, 2-13=-2174/367,

6-8=-4704/358, 4-12=-1119/129, 5-12=-3585/666, 5-10=-368/166,

6-10=-393/1361, 6-9=-38/124

NOTES

TOP CHORD

BOT CHORD

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

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

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

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -8-0-0 to -5-0-0, Interior (1) -5-0-0 to 0-2-12. Exterior(2E) 0-2-12 to 3-2-12. Interior (1) 3-2-12 to 17-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60

TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

Unbalanced snow loads have been considered for this

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 10) A plate rating reduction of 20% has been applied for the green lumber members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 13. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



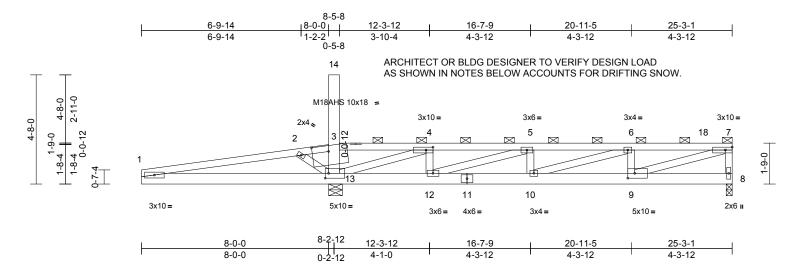
RENEWAL DATE: 12-31-2023 April 25,2023





Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT09	Roof Special Girder	1	2	Job Reference (optional)	R75892808

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:50 ID:GVRLVrYVjXAbRdq2mlfQaYz9eZg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:49.3

Plate Offsets (X, Y): [3:0-8-8,0-3-0], [4:0-3-9,0-1-8], [9:0-3-9,0-2-8], [13:0-1-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.12	9-10	>999	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.18	9-10	>999	360	M18AHS	169/162
TCDL	20.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	10	>999	240		
BCDL	6.0										Weight: 253 lb	FT = 20%

LUMBER

2x4 DF No.1&Btr G *Except* 1-3:2x4 DF TOP CHORD

2400F 2.0E

BOT CHORD 2x6 DF No.2

WEBS 2x4 DF Std G *Except* 14-13:2x6 DF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7, 13-14.

Except:

10-0-0 oc bracing: 3-14

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

bracing.

REACTIONS (size) 8=0-3-1, 13=0-7-0 13=159 (LC 11) Max Horiz

Max Uplift 8=-148 (LC 9), 13=-464 (LC 8)

Max Grav 8=1621 (LC 2), 13=4706 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

3-4=-891/5311, 4-5=-1224/1125, TOP CHORD

5-6=-3522/496, 6-7=-3397/343,

7-8=-1508/153, 3-13=-806/68, 3-14=0/0,

1-2=-442/3716, 2-3=-631/5452

1-13=-3572/449, 12-13=-1148/1232, BOT CHORD 10-12=-513/3522, 9-10=-360/3397,

8-9=-28/223

WEBS 4-12=-53/770, 5-12=-3541/384,

5-10=-75/183, 6-10=-381/457, 6-9=-1106/151, 7-9=-349/3342,

4-13=-5758/485, 2-13=-2310/268

NOTES

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

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

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

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 5) design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 3 = 0%
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) A plate rating reduction of 20% has been applied for the green lumber members.

- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 8 and 13. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



RENEWAL DATE: 12-31-2023 April 25,2023



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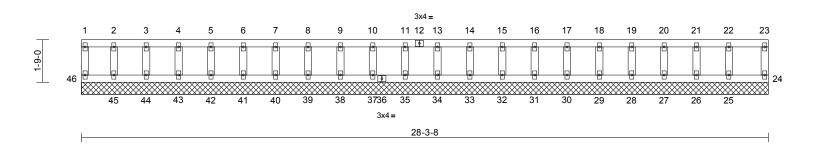
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Salety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT10	Flat Supported Gable	1	1	Job Reference (optional)	R75892809

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:50 ID:WpOngs1?NMCpuJBNMBoiTqz9dKI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:47.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	0.00	24	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 113 lb	FT = 11%

LUMBER	
TOP CHORD	2x4 DF No.1&Btr G
BOT CHORD	2x4 DF No.1&Btr G
WEBS	2x4 DF Std G
OTHERS	2x4 DF Std G

BRACING

LIMBED

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)

24=28-3-8, 25=28-3-8, 26=28-3-8, 27=28-3-8, 28=28-3-8, 29=28-3-8, 30=28-3-8, 31=28-3-8, 32=28-3-8, 33=28-3-8, 34=28-3-8, 35=28-3-8, 37=28-3-8. 38=28-3-8. 39=28-3-8. 40=28-3-8, 41=28-3-8, 42=28-3-8, 43=28-3-8, 44=28-3-8, 45=28-3-8, 46=28-3-8

Max Grav 24=186 (LC 1), 25=452 (LC 1), 26=375 (LC 1), 27=392 (LC 1),

28=389 (LC 1), 29=389 (LC 1), 30=389 (LC 1), 31=389 (LC 1), 32=389 (LC 1), 33=389 (LC 1), 34=389 (LC 1), 35=389 (LC 1), 37=389 (LC 1), 38=389 (LC 1), 39=389 (LC 1), 40=389 (LC 1),

41=389 (LC 1), 42=389 (LC 1), 43=389 (LC 1), 44=392 (LC 1), 45=390 (LC 1), 46=149 (LC 1)

FORCES TOP CHORD

(lb) - Maximum Compression/Maximum Tension

1-46=-140/0, 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, 11-13=-8/0, 13-14=-8/0, 14-15=-8/0, 15-16=-8/0, 16-17=-8/0. 17-18=-8/0. 18-19=-8/0.

19-20=-8/0, 20-21=-8/0, 21-22=-8/0, 22-23=-8/0. 23-24=-178/0

BOT CHORD

NOTES

45-46=0/8, 44-45=0/8, 43-44=0/8, 42-43=0/8, 41-42=0/8, 40-41=0/8, 39-40=0/8, 38-39=0/8, 37-38=0/8, 35-37=0/8, 34-35=0/8, 33-34=0/8, 32-33=0/8, 31-32=0/8, 30-31=0/8, 29-30=0/8, 28-29=0/8, 27-28=0/8, 26-27=0/8, 25-26=0/8,

24-25=0/8 WFBS

2-45=-376/0, 3-44=-376/0, 4-43=-373/0, 5-42=-373/0, 6-41=-373/0, 7-40=-373/0, 8-39=-373/0, 9-38=-373/0, 10-37=-373/0, 11-35=-373/0, 13-34=-373/0, 14-33=-373/0, 15-32=-373/0, 16-31=-373/0, 17-30=-373/0, 18-29=-373/0, 19-28=-373/0, 20-27=-376/0, 21-26=-360/0, 22-25=-433/0

- All plates are 2x4 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 12 = 11%, joint 36 =
- 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.
- A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1 00 Uniform Loads (lb/ft) Vert: 1-23=-280, 24-46=-12



RENEWAL DATE: 12-31-2023 April 25.2023

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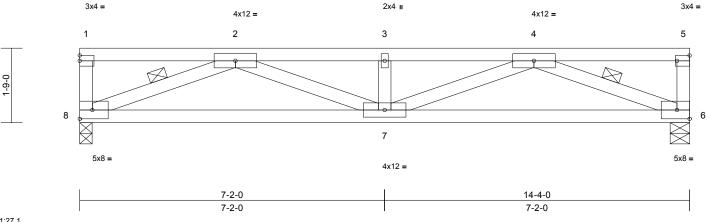
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ī	Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
	2795053	FT11	Flat	5	1	Job Reference (optional)	R75892810

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:50 ID:LnKKeMjlytNjE32KBfJ4Hrz9dJP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

3-7-15	7-2-0	10-8-2	14-4-0
3-7-15	3-6-2	3-6-2	3-7-15



Scale = 1:27.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.19	7	>888	480	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.37	7	>461	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.09	6	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 64 lb	FT = 11%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G 2x4 DF Std G WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-2 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 2-8, 4-6 REACTIONS (size) 6=0-5-8 8=0-3-8

Max Grav 6=2049 (LC 1), 8=2049 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-459/0, 1-2=-139/0, 2-3=-5050/0,

3-4=-5050/0, 4-5=-139/0, 5-6=-459/0

BOT CHORD 7-8=0/3844, 6-7=0/3844 **WEBS**

2-7=0/1306, 2-8=-4009/0, 3-7=-944/0,

4-7=0/1306, 4-6=-4009/0

NOTES

- 1) A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Vert: 1-5=-280, 6-8=-12

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

PROFESS, 89200PE

Page: 1

RENEWAL DATE: 12-31-2023 April 25,2023



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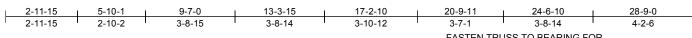
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information
**available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT12	Flat	6	2	Job Reference (optional)	R75892811

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:51 ID:LnKKeMjlytNjE32KBfJ4Hrz9dJP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

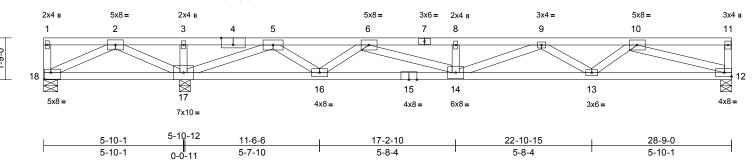
Page: 1



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

5x10=

M18AHS 5x12 =



Scale = 1:48.2

Plate Offsets (X, Y): [4:0-6-0, Edge], [18:0-3-4,0-3-4]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.33	13-14	>840		MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.62	13-14	>438		M18AHS	169/162
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.08	12	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S		, ,					Weight: 255 lb	FT = 11%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G *Except* 1-4:2x4 DF

2400F 2.0E 2x4 DF No.1&Btr G

BOT CHORD **WEBS** 2x4 DF Std G *Except* 2-18:2x4 DF

No.1&Btr G

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-4-3 oc purlins, except end verticals.

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

bracing.

REACTIONS 12=0-5-8, 17=0-5-8, 18=0-7-0 (size)

Max Uplift 18=-2052 (LC 4)

12=2744 (LC 4), 17=7073 (LC 1), Max Grav

18=74 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-18=-358/0, 1-2=-38/33, 2-3=0/8550, 3-5=0/8550, 5-6=-2735/0, 6-8=-8547/0

8-9=-8547/0, 9-10=-7240/0, 10-11=-187/0,

11-12=-519/0

BOT CHORD 17-18=-4234/0, 16-17=-343/0, 14-16=0/5837,

13-14=0/8708, 12-13=0/5904

3-17=-1200/0, 5-16=0/3761, 5-17=-8846/0, WEBS

6-16=-3835/0, 6-14=0/2925, 8-14=-933/0, 9-14=-189/0. 9-13=-1785/0. 10-13=0/1699.

10-12=-6112/0, 2-18=0/4720, 2-17=-5540/0

NOTES

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

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

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced floor live loads have been considered for 3) this design.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 4 = 11%, joint 15 = 11%, joint 7 = 11%
- A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2052 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 11) 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

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

Uniform Loads (lb/ft) Vert: 1-11=-280, 12-18=-12 ERED PROFESSON 89200PE

RENEWAL DATE: 12-31-2023 April 25,2023



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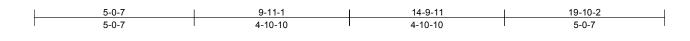
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

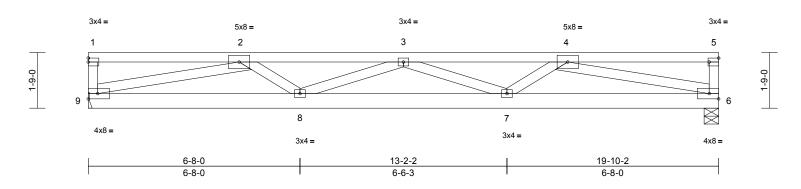


Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT13	Flat	1	2	Job Reference (optional)	R75892812

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries. Inc. Fri Apr 21 12:25:51 ID:LnKKeMjlytNjE32KBfJ4Hrz9dJP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:36.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.28	7-8	>831	480	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.54	7-8	>432	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.08	6	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 202 lb	FT = 11%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x6 DF 2400F 2.0E 2x4 DF Std G WEBS

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals.

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

bracing.

REACTIONS 6=0-5-8, 9= Mechanical (size) Max Grav 6=2854 (LC 1), 9=2854 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-9=-611/0, 1-2=-355/0, 2-3=-8436/0, 3-4=-8436/0, 4-5=-355/0, 5-6=-611/0

8-9=0/7466, 7-8=0/10177, 6-7=0/7466

BOT CHORD WEBS 2-8=0/1201, 2-9=-7415/0, 3-8=-1890/0,

3-7=-1890/0, 4-7=0/1201, 4-6=-7415/0

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
 - Web connected as follows: 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

- 6) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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

Vert: 1-5=-280, 6-9=-12

ERED PROFESS 89200PE **OREGON**

> RENEWAL DATE: 12-31-2023 April 25.2023



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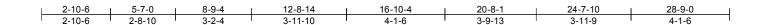
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information
**available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

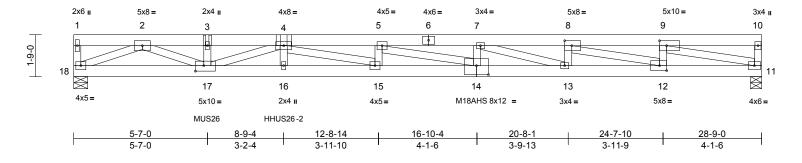


Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT13A	Flat Girder	1	4	Job Reference (optional)	R75892813

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:51 ID:yqi5lKRcQclwnPm1jUQed6zTQty-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:48.2

Plate Offsets (X, Y): [8:0-3-9,0-2-8], [9:0-3-9,0-2-8], [12:0-3-9,0-2-8], [14:0-6-0,0-4-8], [17:0-4-4,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.61	14-15	>555	480	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.93	14-15	>369	360	M18AHS	169/162
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.12	11	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 676 lb	FT = 11%

LUMBER

2x6 DF No.2 *Except* 6-10:2x6 DF 2400F TOP CHORD

2.0E

BOT CHORD 2x6 DF 2400F 2.0E

WEBS 2x4 DF Std G *Except* 2-17:2x4 DF

No 1&Btr G

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) 11=0-5-8, 18=0-7-0 Max Grav 11=4303 (LC 1), 18=5317 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-18=-531/0, 1-2=-384/0, 2-3=-18400/0, 3-4=-18400/0, 4-5=-25348/0, 5-7=-23679/0,

7-8=-19048/0, 8-9=-11111/0, 9-10=-585/0,

10-11=-636/0

BOT CHORD 17-18=0/10009, 16-17=0/23859,

15-16=0/23859, 13-15=0/25348, 12-13=0/19048, 11-12=0/11111

WEBS 3-17=-691/0, 4-17=-5890/0, 4-16=0/759,

2-17=0/9290, 2-18=-10658/0, 9-11=-11069/0, 5-15=-523/0, 4-15=0/1566, 5-14=-1750/0,

7-14=0/576, 7-13=-4880/0, 8-13=0/1615,

8-12=-8348/0. 9-12=0/2449

NOTES

4-ply truss to be connected together with 10d

(0.131"x3") nails as follows:

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

oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-4-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. Attach TC w/ USP WS6 or equal in 2 rows at 2-0-0 oc. Attach BC w/ USP WS6 or equal in 2 rows at 2-0-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 6 = 11%
- A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie MUS26 (6-10d Girder, 6-10d Truss) or equivalent at 5-7-0 from the left end to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 8-9-5 from the left end to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Vert: 1-10=-260, 11-18=-12 Concentrated Loads (lb) Vert: 17=-1220 (F), 16=-661 (F)



RENEWAL DATE: 12-31-2023 April 25.2023



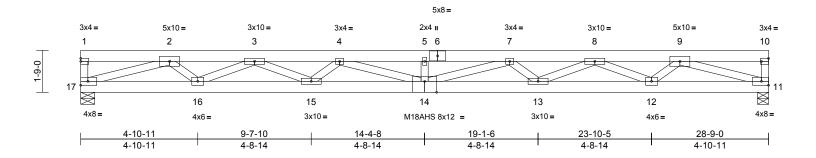


Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT13B	Flat	1	2	Job Reference (optional)	R75892814

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:51 ID:LnKKeMjlytNjE32KBfJ4Hrz9dJP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:48.2

Plate Offsets (X, Y): [10:Edge,0-1-8], [14:0-6-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.82	14	>415	360	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-1.42	14	>241	240	M18AHS	169/162
BCLL	0.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.19	11	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 334 lb	FT = 11%

LUMBER

TOP CHORD 2x6 DF 2400F 2.0E **BOT CHORD** 2x6 DF 2400F 2.0E 2x4 DF Std G WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.

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

bracing.

REACTIONS 11=0-5-8, 17=0-7-0 (size)

Max Grav 11=3870 (LC 1), 17=3870 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-640/0. 1-2=-423/0. 2-3=-10959/0.

3-4=-18123/0, 4-5=-20483/0, 5-7=-20483/0,

7-8=-18123/0, 8-9=-10959/0, 9-10=-423/0,

10-11=-640/0

BOT CHORD 16-17=0/8810, 15-16=0/15466

13-15=0/19362, 12-13=0/15466,

11-12=0/8810

WEBS 2-16=0/3181, 2-17=-8922/0, 3-16=-5132/0, 3-15=0/3026, 4-15=-1831/0, 4-14=0/1192,

5-14=-825/0, 7-14=0/1192, 7-13=-1831/0,

8-13=0/3026, 8-12=-5132/0, 9-12=0/3181,

9-11=-8922/0

NOTES

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-6-0 oc.

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

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

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 6 = 11%
- A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-10=-260, 11-17=-12



RENEWAL DATE: 12-31-2023 April 25.2023



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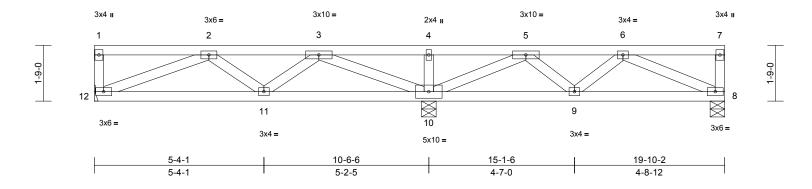
ABISTIPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT14	Flat	1	1	Job Reference (optional)	R75892815

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:52 ID:hsMuIMnRrg9Fad7qZkF7NZz9cZZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:36.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.06	11	>999	480	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.11	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.04	8	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 89 lb	FT = 11%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G **BOT CHORD** 2x4 DF No.1&Btr G 2x4 DF Std G WEBS

BRACING

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

bracing.

REACTIONS (size) 8=0-5-8, 10=0-5-8, 12= Mechanical

Max Grav 8=1152 (LC 4), 10=3443 (LC 1),

12=1317 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-441/0, 1-2=-112/0, 2-3=-1854/0,

3-4=0/1651, 4-5=0/1651, 5-6=-1409/78, 6-7=-86/0, 7-8=-388/0

11-12=0/2087, 10-11=-6/1591, **BOT CHORD**

9-10=-354/1195, 8-9=0/1604

WEBS 4-10=-1035/0, 5-9=0/494, 5-10=-2542/0,

6-9=-476/0, 6-8=-1682/0, 2-11=-440/0,

2-12=-2142/0, 3-11=0/472, 3-10=-3105/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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

Vert: 1-7=-280, 8-12=-12



RENEWAL DATE: 12-31-2023 April 25.2023

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

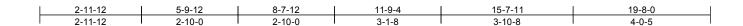
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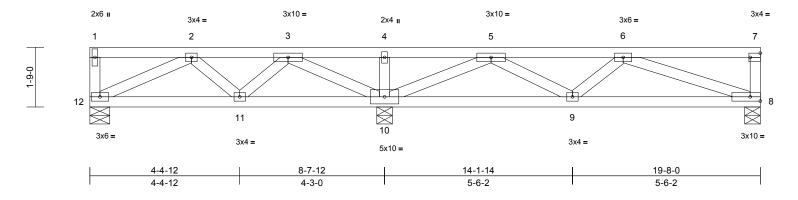
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT15	Flat	1	1	Job Reference (optional)	R75892816

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:52 ID:?WoNwGg_cpzNzEiNySUoUmz9cQf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:33.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.07	9	>999	480	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.12	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	Yes	WB	0.77	Horz(CT)	0.04	8	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 88 lb	FT = 11%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G 2x4 DF Std G WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing, Except: 10-0-0 oc bracing: 8-9.

REACTIONS (size) 8=0-5-8, 10=0-5-8, 12=0-7-0

Max Grav 8=1362 (LC 4), 10=3476 (LC 1),

12=1051 (LC 3)

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

Tension

1-12=-359/0, 1-2=-72/0, 2-3=-1160/296, TOP CHORD

3-4=0/1849, 4-5=0/1849, 5-6=-1986/0,

6-7=-137/0, 7-8=-489/0

BOT CHORD 11-12=-17/1345, 10-11=-607/960,

9-10=-1/1376, 8-9=0/2338

WEBS 4-10=-925/0, 5-10=-3201/0, 5-9=0/835,

6-9=-585/0, 6-8=-2350/0, 2-11=-527/0, 2-12=-1430/39, 3-11=0/539, 3-10=-2383/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-7=-280, 8-12=-12



RENEWAL DATE: 12-31-2023 April 25.2023

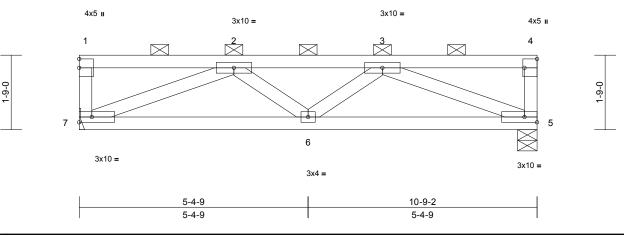




Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT15A	Flat	1	1	Job Reference (optional)	R75892817

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:52 ID:?WoNwGg_cpzNzEiNySUoUmz9cQf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

3-7-10	7-1-8	10-9-2
3-7-10	3-5-14	3_7_10



Scale = 1:27.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.07	6	>999	480	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.14	6	>920	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.04	5	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-AS							Weight: 48 lb	FT = 11%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G 2x4 DF Std G WEBS

BRACING

TOP CHORD 2-0-0 oc purlins (3-9-2 max.): 1-4, except

end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS 5=0-5-8, 7= Mechanical (size)

Max Grav 5=1528 (LC 1), 7=1528 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-7=-469/0, 1-2=-169/0, 2-3=-2593/0,

3-4=-169/0, 4-5=-469/0

BOT CHORD 6-7=0/2582, 5-6=0/2582 2-6=0/14, 2-7=-2615/0, 3-6=0/14, WEBS

3-5=-2615/0

NOTES

- 1) A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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

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

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 1-4=-280, 5-7=-12



Page: 1

RENEWAL DATE: 12-31-2023 April 25.2023

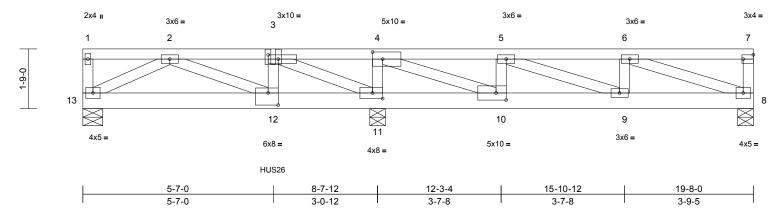




Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT15B	Flat Girder	1	1	Job Reference (optional)	R75892818

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:52 ID:?WoNwGg_cpzNzEiNySUoUmz9cQf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:33.8

Plate Offsets (X, Y): [3:0-3-9,0-1-8], [4:0-3-9,0-2-8], [7:Edge,0-1-8], [10:0-3-9,0-2-8], [11:0-3-9,0-2-0], [12:0-3-9,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.07	9-10	>999	360	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.12	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.02	8	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 103 lb	FT = 11%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G **BOT CHORD** 2x6 DF 2400F 2.0E

2x4 DF Std G *Except* 10-4:2x4 DF WEBS

No.1&Btr G

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-11-1 oc purlins, except end verticals.

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

bracing.

8=0-5-8, 11=0-5-8, 13=0-7-0 **REACTIONS** (size)

8=1339 (LC 4), 11=4270 (LC 1), Max Grav 13=1448 (LC 3)

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

Tension

TOP CHORD 1-13=-287/0, 1-2=-95/0, 2-3=-2438/0,

3-4=0/1640, 4-5=-1526/69, 5-6=-2199/0,

6-7=-170/0, 7-8=-466/0

BOT CHORD 12-13=0/1933, 11-12=0/2438, 10-11=-1640/0,

9-10=-69/1526, 8-9=0/2199

WEBS 4-11=-2163/0, 3-11=-3786/0, 3-12=0/907, 6-8=-2169/0, 5-10=-1274/0, 4-10=0/3144,

5-9=0/882, 6-9=-346/0, 2-12=0/555,

2-13=-2117/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 5-7-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft) Vert: 1-7=-280, 8-13=-12 Concentrated Loads (lb) Vert: 12=-1201 (B)

RENEWAL DATE: 12-31-2023

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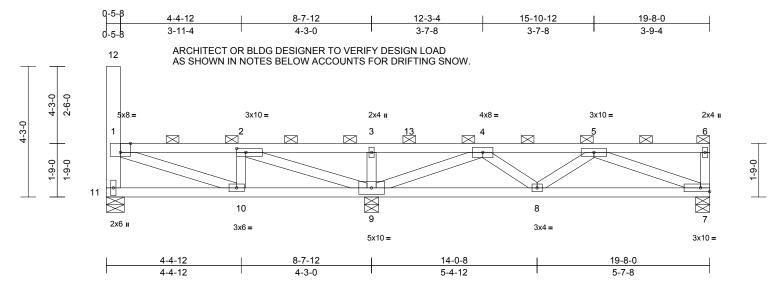
MiTek[®] MiTek USA, Inc. 400 Sunrise Avenue, Suite 270

Roseville, CA 95661

April 25,2023

Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT16	Flat	4	1	Job Reference (optional)	R75892819

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:53 ID:m7T7xl6BBZDJVdGvy1Zsr9z9cKw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.07	7-8	>999	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.14	7-8	>937	360		
TCDL	20.0	Rep Stress Incr	Yes	WB	0.93	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.01	7-8	>999	240		
BCDL	6.0										Weight: 94 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No 1&Btr G BOT CHORD 2x4 DF No.1&Btr G

WEBS 2x4 DF Std G *Except* 12-11:2x6 DF No.2

BRACING

TOP CHORD 2-0-0 oc purlins (2-2-0 max.): 1-6, 1-12, except end verticals

BOT CHORD Rigid ceiling directly applied.

REACTIONS 7=0-5-8, 9=0-5-8, 11=0-7-0 (size)

Max Horiz 11=-133 (LC 12)

7=1349 (LC 2), 9=3363 (LC 2), Max Grav

11=921 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1099/126, 2-3=-23/1368, 3-4=-23/1368,

4-5=-1914/0, 5-6=0/0, 1-11=-863/76,

1-12=0/0

BOT CHORD 10-11=-231/363, 9-10=-126/1099,

8-9=-13/1567, 7-8=-13/2239

WFBS 6-7=-411/10 3-9=-1210/26 2-10=-320/84 2-9=-2608/118, 4-8=0/448, 4-9=-3163/14.

5-8=-414/43, 5-7=-2413/14, 1-10=-172/890

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft) Vert: 1-6=-130, 7-11=-12

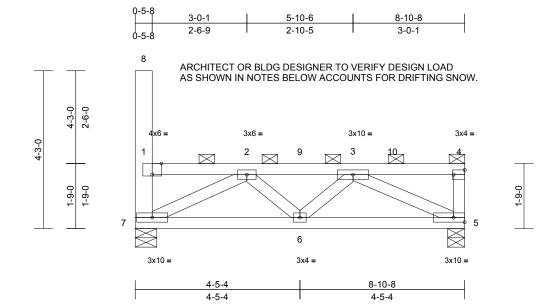


RENEWAL DATE: 12-31-2023 April 25.2023



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT17	Flat	4	1	Job Reference (optional)	R75892820

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:53 ID:DhsxIDuqzXUet62VYJFAFsz9cMV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.03	6	>999	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.08	6	>999	360		
TCDL	20.0	Rep Stress Incr	Yes	WB	0.48	Horz(CT)	0.03	5	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.01	6	>999	240		
BCDL	6.0										Weight: 47 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No 1&Btr G BOT CHORD 2x4 DF No.1&Btr G

WEBS 2x4 DF Std G *Except* 8-7:2x6 DF No.2

BRACING

TOP CHORD 2-0-0 oc purlins (4-2-9 max.): 1-4, 1-8,

except end verticals. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS 5=0-5-8, 7=0-7-0 (size)

Max Horiz 7=-144 (LC 10)

Max Grav 5=1478 (LC 2), 7=1373 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-460/266, 2-3=-2021/0, 3-4=-132/0,

4-5=-432/0, 1-7=-383/63, 1-8=0/0

BOT CHORD 6-7=-51/1943, 5-6=0/2095 **WEBS** 2-6=-35/178, 3-6=-131/67, 3-5=-2202/0,

2-7=-2033/0

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) A plate rating reduction of 20% has been applied for the green lumber members.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 185 lb down at 6-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-130, 5-7=-12

Concentrated Loads (lb)

Vert: 9=-185, 10=-185 (F)

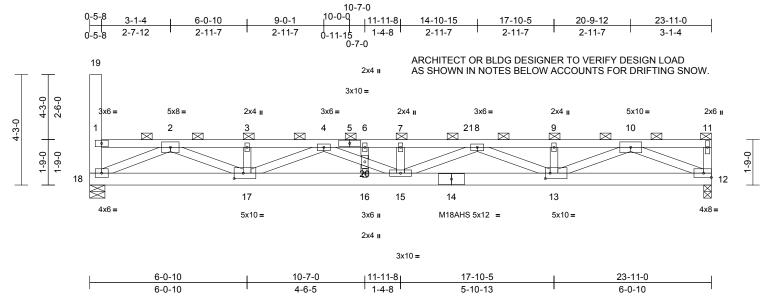


RENEWAL DATE: 12-31-2023 April 25.2023



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT18	Flat	3	2	Job Reference (optional)	R75892821

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:53 ID:B7u5h5?2SVsACcBu5nMRA2z9cIU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:44.3

Plate Offsets (X, Y): [13:0-2-4,0-2-8], [17:0-4-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.48	13-15	>593	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.83	15	>338	240	M18AHS	169/162
TCDL	20.0	Rep Stress Incr	Yes	WB	0.46	Horz(CT)	0.10	12	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.09	15	>999	240		
BCDL	6.0			1							Weight: 261 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x6 DF 2400F 2 0F **WEBS** 2x4 DF Std G *Except*

2-17,4-17,8-15,10-13,10-12,4-15,8-13:2x4

DF No.1&Btr G, 19-18:2x6 DF No.2

BRACING

BOT CHORD

TOP CHORD 2-0-0 oc purlins (2-9-7 max.): 1-11, 1-19,

except end verticals. Rigid ceiling directly applied.

REACTIONS (size) 12=0-3-8, 18=0-7-0

Max Horiz 18=142 (LC 13) Max Uplift 12=-12 (LC 11), 18=-30 (LC 10)

Max Grav 12=3151 (LC 2), 18=3133 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-434/258, 2-3=-9847/736, 3-4=-9847/736, 4-6=-13556/580, 6-7=-13556/580, 7-8=-13556/580, 8-9=-10046/563, 9-10=-10046/563,

10-11=-235/32, 11-12=-360/59, 1-18=-391/74, 1-19=0/0

BOT CHORD 17-18=-650/5765, 16-17=-754/12691,

15-16=-754/12691, 13-15=-563/12852,

12-13=-445/5949

WEBS 3-17=-651/138, 2-18=-5978/472,

2-17=-233/4502, 4-17=-3136/66, 7-15=-604/36, 8-15=-41/777, 9-13=-614/127,

10-13=-153/4518, 10-12=-6301/461, 4-20=0/1008, 15-20=0/890, 8-13=-3094/0,

6-20=-187/0, 16-20=-59/92

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows
 - staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) A plate rating reduction of 20% has been applied for the green lumber members.

- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 12 and 18. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support ed b down at 10-7-0, and 176/th down at 10-7-0 on top chord. The design selection of such connection devices is the responsibility of others N.F. PHON NEE (s) is the respo sibility



RENEWAL DATE: 12-31-2023 April 25,2023

Continued on page 2

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



400 Sunrise Aven ue. Suite 270 Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT18	Flat	3	2	Job Reference (optional)	R75892821

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:53 ID: B7u5h5? 2SVs ACcBu5nMRA2z9cIU-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the proper

LOAD CASE(S) Standard

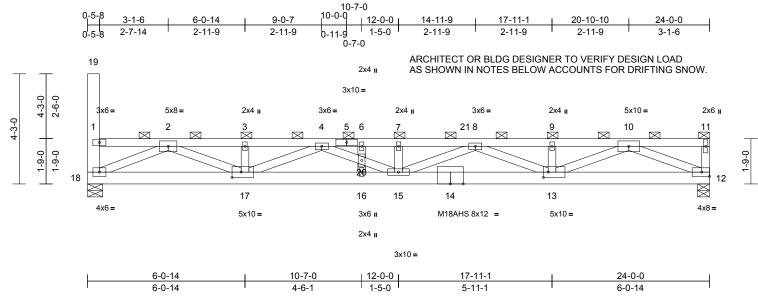
Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-11=-90, 12-18=-12 Concentrated Loads (lb) Vert: 6=-176 (F), 21=-176 (F)

Page: 2

Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT19	Flat	3	2	Job Reference (optional)	R75892822

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:54 ID:Z8hOKVgghoH?pHpnt?le?Fz9c9t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.5

Plate Offsets (X, Y): [13:0-2-4,0-2-8], [17:0-4-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.48	13-15	>587	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.85	13-15	>335	240	M18AHS	169/162
TCDL	20.0	Rep Stress Incr	Yes	WB	0.46	Horz(CT)	0.10	12	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-AS		Wind(LL)	0.09	15	>999	240		
BCDL	6.0										Weight: 262 lb	FT = 20%

LUMBER

2x4 DF No.1&Btr G TOP CHORD BOT CHORD 2x6 DF 2400F 2 0F **WEBS** 2x4 DF Std G *Except*

2-17,4-17,8-15,10-13,10-12,4-15,8-13:2x4

DF No.1&Btr G, 19-18:2x6 DF No.2

BRACING

TOP CHORD 2-0-0 oc purlins (2-8-14 max.): 1-11, 1-19,

except end verticals. Rigid ceiling directly applied.

BOT CHORD REACTIONS (size) 12=0-5-8, 18=0-7-0

Max Horiz 18=142 (LC 11)

Max Uplift 12=-14 (LC 11), 18=-30 (LC 10)

Max Grav 12=3160 (LC 2), 18=3144 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-436/257, 2-3=-9916/737, 3-4=-9916/737, 4-6=-13650/583,

6-7=-13650/583. 7-8=-13650/583. 8-9=-10112/570, 9-10=-10112/570, 10-11=-236/32, 11-12=-361/59,

1-18=-392/74, 1-19=0/0

BOT CHORD 17-18=-651/5806, 16-17=-753/12783,

15-16=-753/12783, 13-15=-569/12936,

12-13=-449/5989

WEBS 3-17=-654/138, 2-18=-6016/473, 2-17=-233/4530, 4-17=-3159/64,

7-15=-611/34, 8-15=-37/786, 9-13=-614/129,

10-13=-156/4544, 10-12=-6339/464 4-20=0/1011, 15-20=0/891, 8-13=-3112/0,

6-20=-186/0, 16-20=-57/97

NOTES

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

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

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) A plate rating reduction of 20% has been applied for the green lumber members.

- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 12 and 18. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Dead + Snow (t umber Increase=1.15. Plate 89200PE **OREGON**

RENEWAL DATE: 12-31-2023 April 25.2023

Continued on page 2

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

MiTek USA, Inc. 400 Sunrise Aven ue. Suite 270 Roseville, CA 95661

MiTek[®]

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

Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT19	Flat	3	2	Job Reference (optional)	R75892822

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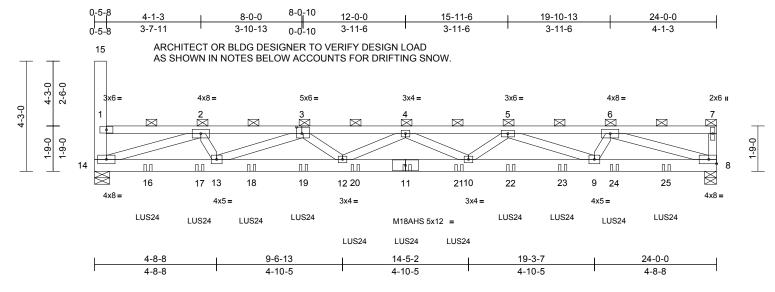
Page: 2

Vert: 1-11=-90, 12-18=-12 Concentrated Loads (lb) Vert: 6=-176, 21=-176

Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT20	Flat Girder	1	2	Job Reference (optional)	R75892823

Run: 8.53 S. Mar. 9.2023 Print: 8.530 S.Mar. 9.2023 MiTek Industries. Inc. Fri Apr. 21.12:25:54 ID:Z8hOKVgghoH?pHpnt?le?Fz9c9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.5

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

Loading	(psf)	Spacing	1-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.46	10-12	>610	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.69	10-12	>409	360	M18AHS	169/162
TCDL	20.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.30	10-12	>954	240		
BCDL	6.0										Weight: 257 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No 1&Btr G BOT CHORD 2x6 DF 2400F 2 0F

WEBS 2x4 DF Std G *Except* 15-14:2x6 DF No.2

BRACING

2-0-0 oc purlins (3-7-13 max.): 1-7, 1-15, TOP CHORD

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-10-14 oc

bracing.

REACTIONS (size) 8=0-5-8, 14=0-7-0

Max Horiz 14=-71 (LC 32)

Max Uplift 8=-1177 (LC 7), 14=-1174 (LC 6)

Max Grav 8=2702 (LC 21), 14=2698 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-473/275, 2-4=-11416/5154,

4-5=-11417/5135, 5-6=-7388/3317,

6-7=-265/116, 7-8=-262/46, 1-14=-271/50,

1-15=0/0

13-14=-2926/6494, 12-13=-4611/10365, BOT CHORD

10-12=-5192/11724, 9-10=-4613/10424,

8-9=-2903/6555 WEBS

2-13=-1026/2037, 2-14=-6413/2841, 3-13=-3353/1414, 3-12=-750/1414,

5-10=-715/1343, 5-9=-3304/1392,

6-9=-1040/2060, 6-8=-6661/2951,

4-12=-498/61, 4-10=-473/62

NOTES

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

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

Bottom chords connected as follows: 2x6 - 2 rows

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) A plate rating reduction of 20% has been applied for the green lumber members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1174 lb uplift at ioint 14.
- 12) LGT2 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 22-0-12 to connect truss(es) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) LGT2 Hurricane ties must have two studs in line below the truss

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-7=-45, 8-14=-6

Concentrated Loads (lb)

Vert: 11=-84 (F), 16=-84 (F), 17=-84 (F), 18=-84 (F), 19=-84 (F), 20=-84 (F), 21=-84 (F), 22=-84 (F),

23=-84 (F), 24=-84 ERED PROFE SSION (3) 89200PE **OREGON**

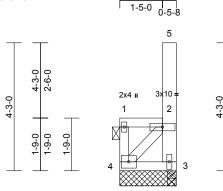
> RENEWAL DATE: 12-31-2023 April 25,2023



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT21	Flat	10	1	Job Reference (optional)	R75892824

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:55 ID:Dp7ioLg_u5OZVwlkAcBYOYz8jAU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

ARCHITECT OR BLDG DESIGNER TO VERIFY DESIGN LOAD AS SHOWN IN NOTES BELOW ACCOUNTS FOR DRIFTING SNOW.



1-10-8

5x6 =

2x6 II

Scale = 1:38.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	0.00	3-4	>999	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	0.00	3-4	>999	360		
TCDL	20.0	Rep Stress Incr	Yes	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	6.0										Weight: 17 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G **BOT CHORD** 2x4 DF No.1&Btr G

2x4 DF Std G *Except* 5-3:2x6 DF No.2 WEBS

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, 2-5, except end

verticals

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

bracing.

REACTIONS (size) 3=1-10-8 4=1-10-8

Max Horiz 4=-144 (LC 10)

Max Uplift 3=-221 (LC 11), 4=-221 (LC 10) Max Grav 3=296 (LC 25), 4=296 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-145/84, 1-2=-21/29, 2-3=-298/627,

2-5=0/0 **BOT CHORD** 3-4=-121/162 2-4=-704/454 WFBS

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 6) A plate rating reduction of 20% has been applied for the green lumber members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Page: 1

RENEWAL DATE: 12-31-2023 April 25.2023

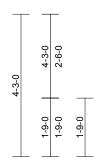


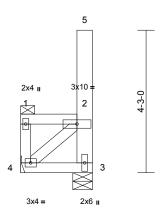
Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT22	Flat	12	1	Job Reference (optional)	R75892825

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:55 ID:Y_YdugsrlV1d27Ry0AWvSPz8jE7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

ARCHITECT OR BLDG DESIGNER TO VERIFY DESIGN LOAD AS SHOWN IN NOTES BELOW ACCOUNTS FOR DRIFTING SNOW.







2-1-10

Scale = 1:34.3

Loading	(psf)	Spacing	2-0-0	CSI	-	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	100.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	0.00	3-4	>999	480	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	0.00	3-4	>999	360		
TCDL	20.0	Rep Stress Incr	Yes	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	6.0			1							Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G **BOT CHORD** 2x4 DF No.1&Btr G

2x4 DF Std G *Except* 5-3:2x6 DF No.2 WEBS

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, 2-5, except end

verticals

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

bracing.

REACTIONS 3=0-7-0 4= Mechanical (size)

Max Horiz 4=-144 (LC 10)

Max Uplift 3=-192 (LC 11), 4=-192 (LC 10)

Max Grav 3=296 (LC 25), 4=296 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-169/79, 1-2=-21/23, 2-3=-286/548, 2-5=0/0

BOT CHORD 3-4=-109/166 2-4=-653/383 WFBS

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=3.6psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=100.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 6) A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 4.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



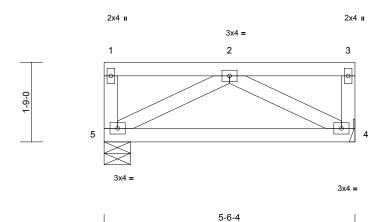
RENEWAL DATE: 12-31-2023 April 25.2023



Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT43	Flat	2	1	Job Reference (optional)	R75892826

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2-9-2	5-6-4
2-9-2	2-9-2



Scale = 1:25.4

					_								_
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	100.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	220/195	
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.03	4-5	>999	240			
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	4	n/a	n/a			
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 11%	

LUMBER

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G 2x4 DF Std G WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-7-0

Max Grav 4=601 (LC 1), 5=601 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-5=-225/0, 1-2=0/0, 2-3=0/0, 3-4=-225/0

BOT CHORD 4-5=0/628

WFBS 2-5=-719/0, 2-4=-719/0

NOTES

- 1) A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 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



Page: 1

RENEWAL DATE: 12-31-2023 April 25,2023

MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661

MiTek[®]

Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT44	Flat Girder	1	1	Job Reference (optional)	R75892827

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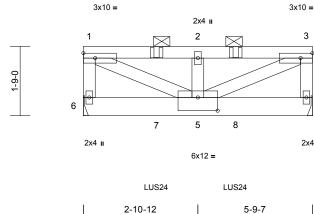
3

2x4 II

2-10-12

1	2-10-12	5-9-7
	2-10-12	2-10-12





2-10-12

Scale = 1:29.1

Plate Offsets (X, Y): [5:0-6-0,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.03	5	>999	360	MT20	220/195
TCDL	10.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.04	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 32 lb	FT = 11%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G **BOT CHORD** 2x6 DF No.2 2x4 DF Std G WEBS

BRACING

TOP CHORD 2-0-0 oc purlins (5-0-1 max.): 1-3, except

end verticals.

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

bracing.

REACTIONS 4= Mechanical, 6= Mechanical (size)

Max Grav 4=1213 (LC 1), 6=1232 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-6=-1018/0, 1-2=-1533/0, 2-3=-1533/0,

3-4=-1018/0

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

BOT CHORD WEBS 1-5=0/1714, 2-5=-704/0, 3-5=0/1714

NOTES

- 1) A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-3 from the left end to 3-10-3 to connect truss(es) to front face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.

In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-3=-220, 4-6=-10

Concentrated Loads (lb)

Vert: 7=-591 (F), 8=-591 (F)

PROFE 89200PE

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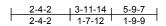
RENEWAL DATE: 12-31-2023 April 25.2023

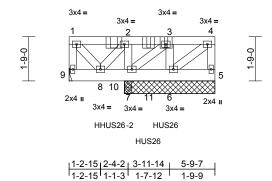




Job	Truss	Truss Type	Qty	Ply	Deform - Aztec Floor / Lower Roof	
2795053	FT45	Flat Girder	1	2	Job Reference (optional)	R75892828

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 12:25:56 ID:6WMeZ_f2FwxqRzMmbcQ?q8zU?tZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:45.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	0.00	7-8	>999	360	MT20	220/195
TCDL	20.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	0.00	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCDL	6.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 68 lb	FT = 11%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G **BOT CHORD** 2x6 DF 2400F 2.0E 2x4 DF Std G WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD 5-9-7 oc purlins, except end verticals.

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

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

REACTIONS (size) 5=3-7-1, 6=3-7-1, 7=3-7-1, 9=

Mechanical

5=140 (LC 1), 6=2265 (LC 1), Max Grav

7=3967 (LC 1), 9=673 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-9=-591/0, 1-2=-299/0, 2-3=0/43, 3-4=-7/0,

4-5=-168/0

BOT CHORD 8-9=0/0, 7-8=-43/0, 6-7=0/7, 5-6=0/0

2-7=-958/0, 4-6=0/10, 3-6=-364/0, 3-7=-66/0, 2-8=0/547, 1-8=0/478

WEBS NOTES

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-3-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.

- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie HHUS26-2 (14-SD10212 Girder, 6-SD10212 Truss) or equivalent at 1-9-6 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 0-8-5 oc max. starting at 3-1-14 from the left end to 3-10-3 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Plate Increase=1.00

Uniform Loads (lb/ft) Vert: 1-4=-240, 5-9=-12

Concentrated Loads (lb)

Vert: 6=-1516 (B), 10=-2842 (B), 11=-1305 (B)



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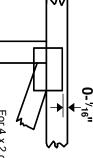
RENEWAL DATE: 12-31-2023 April 25.2023

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/18" from outside edge of truss.

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

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

PLATE SIZE

4 × 4

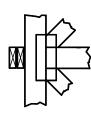
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

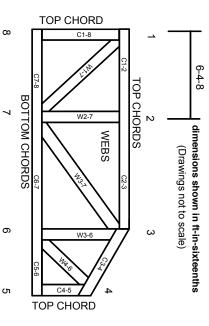
Industry Standards:

National Design Specification for Metal

ANSI/TPI1: DSB-89:

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.

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.
- 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.
- 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.