



RE: 6242726

.

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer: HAPPY MANAGEMENT Project Name: 6242726

Lot/Block: . Model: ALPINE MODEL

Address: 137 SW ROUNDTABLE CT Subdivision: . State: FL

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-22 Wind Speed: 140 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 49 individual, dated Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35407019	A01	10/30/2024	21	T35407039	B04	10/30/2024
2	T35407020	A02	10/30/2024	22	T35407040	B05	10/30/2024
3	T35407021	A03	10/30/2024	23	T35407041	B06	10/30/2024
4	T35407022	A04	10/30/2024	24	T35407042	B07	10/30/2024
5	T35407023	A05	10/30/2024	25	T35407043	B08	10/30/2024
6	T35407024	A05A	10/30/2024	26	T35407044	B09	10/30/2024
7	T35407025	A06	10/30/2024	27	T35407045	B10	10/30/2024
8	T35407026	A07	10/30/2024	28	T35407046	C01	10/30/2024
9	T35407027	A08	10/30/2024	29	T35407047	C02	10/30/2024
10	T35407028	A09	10/30/2024	30	T35407048	C03	10/30/2024
11	T35407029	A10	10/30/2024	31	T35407049	CJ1	10/30/2024
12	T35407030	A11	10/30/2024	32	T35407050	CJ3	10/30/2024
13	T35407031	A12	10/30/2024	33	T35407051	EJ2	10/30/2024
14	T35407032	A13	10/30/2024	34	T35407052	EJ5	10/30/2024
15	T35407033	A14	10/30/2024	35	T35407053	EJ7	10/30/2024
16	T35407034	A15	10/30/2024	36	T35407054	EJ7A	10/30/2024
17	T35407035	A16	10/30/2024	37	T35407055	EJ7B	10/30/2024
18	T35407036	B01	10/30/2024	38	T35407056	GT01	10/30/2024
19	T35407037	B02	10/30/2024	39	T35407057	GT02	10/30/2024
20	T35407038	B03	10/30/2024	40	T35407058	GT03	10/30/2024

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

MiTek USA, Inc under my direct supervision

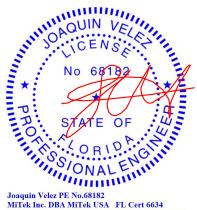
based on the parameters provided by Tibbetts Lumber Co., LLC.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2025.

Florida COA: 6634

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30, 2024



RE: 6242726 - .

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Project Customer: HAPPY MANAGEMENT Project Name: 6242726 Lot/Block: . Subdivision: .

Lot/Block: . Address: 137 SW ROUNDTABLE CT

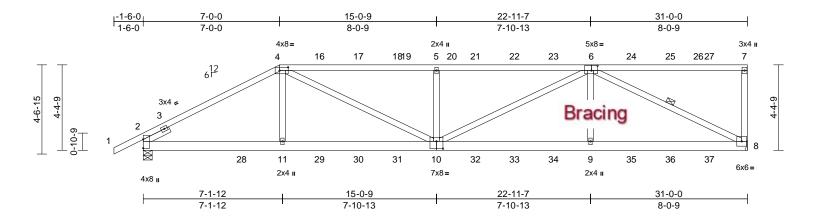
City, County: LAKE CITY State: FL

No.	Seal#	Truss Name	Date
41	T35407059	KJ2	10/30/2024
42	T35407060	KJ5	10/30/2024
43	T35407061	MG01	10/30/2024
44	T35407062	MV01	10/30/2024
45	T35407063	MV02	10/30/2024
46	T35407064	MV03	10/30/2024
47	T35407065	MV04	10/30/2024
48	T35407066	V01	10/30/2024
49	T35407067	V02	10/30/2024

Job	Truss	Truss Type	Qty	Ply		
6242726	A01	Half Hip Girder	1	2	Job Reference (optional)	T35407019

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:07 ID:HUfrQjCQekMhnFryooxqnWyc8Dk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.1

Plate Offsets (X, Y): [4:0-5-4,0-2-0], [6:0-3-12,0-3-0], [10:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.14	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.27	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.15	9-10	>999	240	Weight: 368 lb	FT = 20%

LUMBER

BOT CHORD

2x4 SP No.2 *Except* 6-4:2x4 SP M 31 or TOP CHORD

2x4 SP SS 2x6 SP No.2

2x4 SP No 2 WFBS **SLIDER** Left 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-13 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 6-8

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

Max Horiz 2=192 (LC 21)

Max Uplift 2=-849 (LC 8), 8=-789 (LC 8)

Max Grav 2=2472 (LC 13), 8=2467 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-4=-4062/1292, 4-5=-5148/1674,

5-7=-5148/1674, 7-8=-333/229

BOT CHORD 2-11=-1205/3582, 9-11=-1262/3946

8-9=-1265/3940

WEBS 4-11=0/566, 4-10=-527/1799, 5-10=-942/655,

6-10=-461/1346, 6-9=0/699, 6-8=-4329/1377

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
 - 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 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; $\label{eq:mwfrs} \mbox{MWFRS (directional); cantilever left and right exposed} \; ;$ Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 789 lb uplift at joint 8 and 849 lb uplift at joint 2.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 135 lb down and 111 lb up at 7-0-0, 135 lb down and 111 lb up at 9-0-12, 135 lb down and 111 lb up at 11-0-12, 135 lb down and 111 lb up at 13-0-12, 135 lb down and 111 lb up at 15-0-12, 135 lb down and 111 lb up at 17-0-12, 135 lb down and 111 lb up at 19-0-12, 135 lb down and 111 lb up at 21-0-12, 135 lb down and 111 lb up at 23-0-12, 135 lb down and 111 lb up at 25-0-12, and 135 lb down and 111 lb up at 27-0-12, and 135 lb down and 111 lb up at 29-0-12 on top chord, and 419 lb down and 179 lb up at 5-0-12, 85 lb down at 7-0-12, 85 lb down at 9-0-12. 85 lb down at 11-0-12. 85 lb down at 13-0-12. 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, 85 lb down at 25-0-12, and 85 lb down at 27-0-12, and 85 lb down at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-4=-54, 4-7=-54, 8-12=-20 Concentrated Loads (lb)

Vert: 4=-109 (F), 11=-65 (F), 10=-65 (F), 5=-109 (F), 6=-109 (F), 9=-65 (F), 16=-109 (F), 17=-109 (F), 18=-109 (F), 21=-109 (F), 22=-109 (F), 23=-109 (F), 24=-109 (F), 25=-109 (F), 27=-109 (F), 28=-380 (F),

29=-65 (F), 30=-65 (F), 31=-65 (F), 32=-65 (F), 33=-65 (F), 34=-65 (F), 35=-65 (F), 36=-65 (F), 37=-65 (F)



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

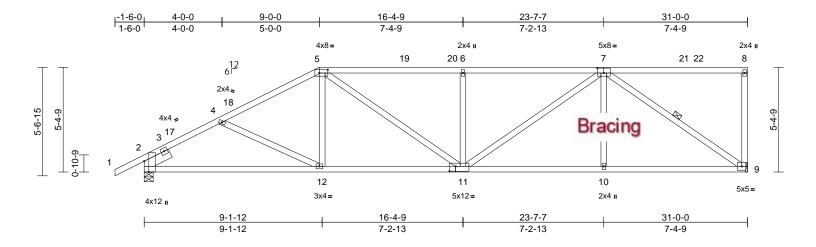
October 30,2024

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



Job	Truss	Truss Type	Qty	Ply		
6242726	A02	Half Hip	1	1	Job Reference (optional)	35407020

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:08 ID:kb6WMpPOP9wBFyD4MDF6ZOyc8En-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:59.2

Plate Offsets (X, Y): [2:0-6-11,Edge], [5:0-5-4,0-2-0], [7:0-4-0,0-3-0], [11:0-3-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.13	11-12	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.25	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.14	11-12	>999	240	Weight: 175 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-11-3 oc

bracing WFBS

1 Row at midpt 7-9

2=0-5-8, 9= Mechanical REACTIONS (size)

Max Horiz 2=233 (LC 12)

Max Uplift 2=-387 (LC 12), 9=-336 (LC 12)

Max Grav 2=1225 (LC 1), 9=1140 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-1771/621, 4-5=-1665/550

5-6=-1783/631, 6-8=-1783/631, 8-9=-171/128

BOT CHORD 2-12=-689/1494, 10-12=-551/1460,

9-10=-442/1309

WEBS 5-12=0/304, 5-11=-120/487, 6-11=-417/274,

7-11=-238/581, 7-10=0/315, 7-9=-1570/529,

4-12=-98/151

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-7-3, Zone1 1-7-3 to 9-0-0, Zone2 9-0-0 to 13-4-10, Zone1 13-4-10 to 30-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 336 lb uplift at joint 9 and 387 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



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



Job	Truss	Truss Type	Qty	Ply	_	
6242726	A03	Hip	1	1	Job Reference (optional)	35407021

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:09 ID:c?jvM7QbUGjh1VWW7iH6nJyc8G2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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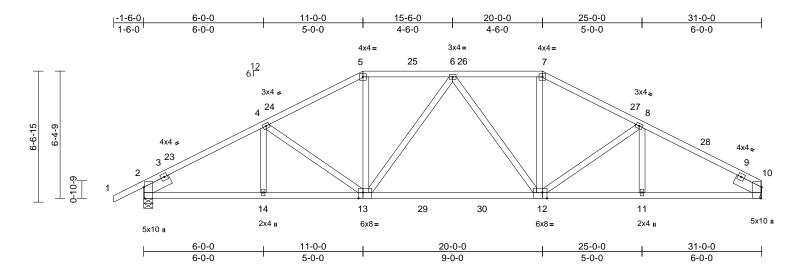


Plate Offsets (X, Y): [2:0-6-11,Edge], [10:0-6-11,Edge], [12:0-2-12,Edge], [13:0-2-12,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.24	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.42	12-13	>879	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.11	13-14	>999	240	Weight: 172 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP M 31 or 2x4 SP SS

2x4 SP No.2 WEBS

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing

REACTIONS (size) 2=0-5-8, 10= Mechanical

Max Horiz 2=181 (LC 11)

Max Uplift 2=-405 (LC 12), 10=-320 (LC 12)

Max Grav 2=1398 (LC 17), 10=1320 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-4=-2021/647, 4-5=-1785/621,

5-6=-1567/607, 6-7=-1571/603,

7-8=-1790/624, 8-10=-2035/655 BOT CHORD 2-14=-499/1845, 11-14=-499/1845,

10-11=-495/1736

WEBS 4-14=-17/98, 4-13=-267/173, 5-13=-101/555,

7-12=-106/555, 8-12=-282/181, 8-11=-9/100,

6-13=-265/124, 6-12=-262/120

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-7-3, Zone1 1-7-3 to 11-0-0, Zone2 11-0-0 to 15-6-0, Zone1 15-6-0 to 20-0-0, Zone2 20-0-0 to 24-4-10, Zone1 24-4-10 to 31-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP SS or M 31.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint 10 and 405 lb uplift at joint 2.

LOAD CASE(S) Standard



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October 30,2024

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



Job	Truss	Truss Type	Qty	Ply	
6242726	A04	Hip	1	1	T35407022 Job Reference (optional)

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:09 ID:m84MQxIBxBXfvS3hpl7reCyc8lo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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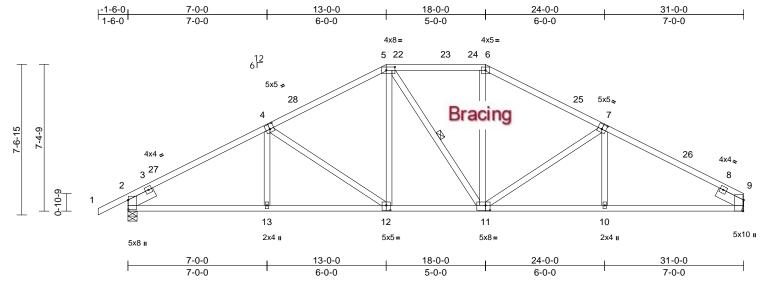


Plate Offsets (X, Y): [2:0-5-11,0-0-4], [4:0-2-8,0-3-0], [5:0-5-4,0-2-0], [7:0-2-8,0-3-0], [9:0-6-11,Edge], [11:0-2-12,0-3-0], [12:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	-0.13	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.26	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.12	12-13	>999	240	Weight: 171 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-1:2x4 SP M 31 or

2x4 SP SS 2x4 SP No.2

BOT CHORD 2x4 SP No 2 WFBS

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 8-4-1 oc

bracing

WEBS 1 Row at midpt 5-11

REACTIONS (size) 2=0-5-8, 9= Mechanical

Max Horiz 2=211 (LC 11)

Max Uplift 2=-405 (LC 12), 9=-320 (LC 12) Max Grav 2=1230 (LC 1), 9=1145 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 5-6=-1239/600, 6-9=-1811/653, 1-2=0/36,

2-5=-1804/648

BOT CHORD 2-13=-489/1531, 10-13=-491/1539,

9-10=-483/1540

WEBS 4-13=0/214, 4-12=-417/216, 5-12=-65/371,

5-11=-139/143, 6-11=-76/373, 7-11=-426/222,

7-10=0/210

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-7-3, Zone1 1-7-3 to 13-0-0, Zone2 13-0-0 to 17-4-10, Zone1 17-4-10 to 18-0-0, Zone2 18-0-0 to 22-4-10, Zone1 22-4-10 to 31-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint 9 and 405 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

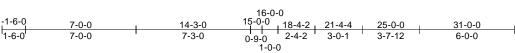


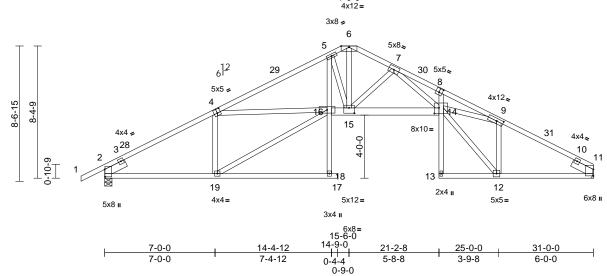
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	A05	Hip	1	1	Job Reference (optional)	T35407023

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:09 ID:DYED03NfYAYdoJxXMWmcJPyc8u7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:73.1

Plate Offsets (X, Y): [2:0-5-11,0-0-4], [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [9:0-5-4,0-2-0], [14:0-3-8,0-4-4], [15:0-4-0,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	-0.51	13	>735	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.94	14-15	>394	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.61	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.48	13	>773	240	Weight: 200 lb	FT = 20%

LUMBER

BOT CHORD

2x4 SP No.2 *Except* 4-1:2x4 SP M 31 or TOP CHORD

2x4 SP SS

2x4 SP No.2 *Except* 16-14:2x6 SP No.2,

13-11:2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-8-8 oc purlins.

Tension

BOT CHORD Rigid ceiling directly applied or 8-8-11 oc

bracing. Except:

10-0-0 oc bracing: 16-18

REACTIONS (size) 2=0-5-8, 11= Mechanical

Max Horiz 2=244 (LC 11)

Max Uplift 2=-402 (LC 12), 11=-317 (LC 12)

Max Grav 2=1235 (LC 1), 11=1150 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/36, 2-5=-2868/873, 5-6=-2445/821,

6-7=-2490/790, 7-9=-6263/1809, 9-11=-1804/615

BOT CHORD 2-19=-446/1563, 18-19=0/58, 17-18=0/0,

15-16=-521/2453, 14-15=-695/3057 13-14=0/91, 8-14=-41/83, 12-13=-21/74,

11-12=-452/1539, 16-18=0/166,

5-16=-171/711

WEBS 4-19=-776/358, 16-19=-520/1756,

4-16=-91/925, 6-15=-663/1915, 5-15=-768/380, 9-12=-1662/562, 9-14=-972/4057, 12-14=-648/2198,

7-15=-1170/445, 7-14=-932/3326

NOTES

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

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-7-3 Zone1 1-7-3 to 15-6-0, Zone2 15-6-0 to 19-10-10, Zone1 19-10-10 to 31-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 402 lb uplift at joint 2 and 317 lb uplift at joint 11.

LOAD CASE(S) Standard



Page: 1

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

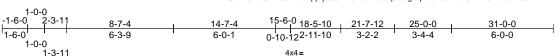


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
6242726	A05A	Roof Special	1	1	T35407024 Job Reference (optional)

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:09 ID:nQd7LGX7QAtA0GKdiBEppfyc98i-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



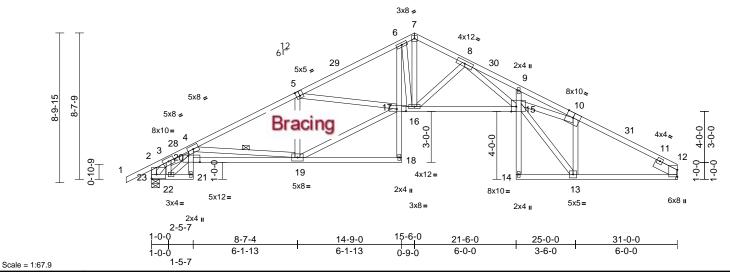


Plate Offsets (X, Y): [2:Edge,0-3-0], [5:0-2-8,0-3-4], [15:0-3-8,Edge], [17:0-6-8,0-1-8], [20:0-8-4,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	-0.55	15-16	>669	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-1.04	15-16	>355	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.80	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.53	15-16	>696	240	Weight: 204 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 20-18,14-12:2x4 SP M BOT CHORD

31 or 2x4 SP SS

WFBS 2x4 SP No 2 **SLIDER** Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-6-11 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-11-1 oc

bracing.

WEBS 1 Row at midpt 4-19

REACTIONS (size) 12= Mechanical, 23=0-5-8

Max Horiz 23=249 (LC 11)

Max Uplift 12=-318 (LC 12), 23=-412 (LC 12) Max Grav 12=1139 (LC 1), 23=1233 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-91/72, 3-4=-3572/1200,

> 4-6=-2674/911, 6-7=-2289/893, 2-23=-197/306, 7-8=-2358/845,

8-9=-6405/2059, 9-12=-6382/2006

BOT CHORD 22-23=-218/820, 21-22=-124/340,

20-21=-8/58, 4-20=-181/906

19-20=-1285/3957, 18-19=-6/43, 17-18=0/92, 6-17=-302/978, 16-17=-517/2244,

15-16=-775/2991, 14-15=0/86, 9-15=-90/89,

13-14=-20/63, 12-13=-494/1518

4-19=-2103/730, 5-19=-691/321, 17-19=-620/2061, 5-17=0/458,

7-16=-773/1894, 10-13=-1810/651,

10-15=-1115/4129, 13-15=-760/2328,

3-22=-413/104, 20-22=-94/520,

3-23=-1189/363, 3-20=-842/2587, 6-16=-979/531, 8-16=-1270/535,

8-15=-1103/3673

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) 2) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-7-3 Zone1 1-7-3 to 15-6-0, Zone2 15-6-0 to 19-10-10, Zone1 19-10-10 to 31-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 23 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 318 lb uplift at joint 12 and 412 lb uplift at joint 23.

LOAD CASE(S) Standard



Page: 1

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

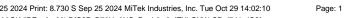


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	A06	Roof Special	2	1	Job Reference (optional)	T35407025

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:10



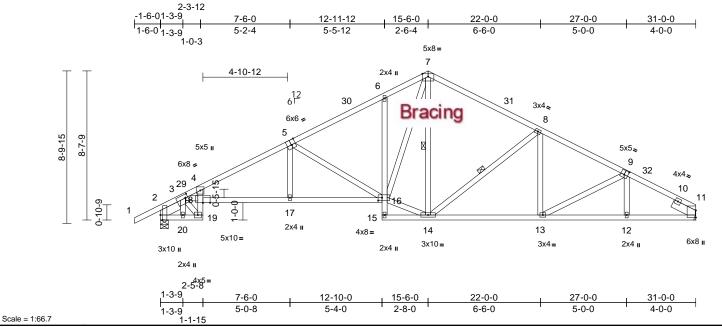


Plate Offsets (X, Y): [2:0-3-8,Edge], [3:0-1-12,0-2-8], [5:0-3-0,Edge], [9:0-2-8,0-3-0], [16:0-2-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.28	17-18	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.53	17-18	>698	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.31	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.30	17-18	>999	240	Weight: 194 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP M 31 or 2x4 SP SS

2x4 SP No.2 *Except* 18-16:2x4 SP M 31 or BOT CHORD

2x4 SP SS

WFBS 2x4 SP No 2

SLIDER Left 2x6 SP No.2 -- 1-4-14, Right 2x6 SP

No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 7-11-0 oc

bracing.

WEBS 1 Row at midpt 7-14, 8-14

REACTIONS (size) 2=0-5-8, 11= Mechanical

Max Horiz 2=248 (LC 11)

Max Uplift 2=-405 (LC 12), 11=-320 (LC 12) Max Grav 2=1230 (LC 1), 11=1145 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-3=-1169/399, 3-4=-3210/1075,

> 4-6=-2359/827, 6-7=-1583/771, 7-8=-1296/601, 8-11=-1767/685

BOT CHORD 2-20=-370/1212, 19-20=-315/1065,

18-19=-196/710, 4-18=-218/931 17-18=-652/2128, 16-17=-652/2128, 15-16=-2/7, 6-16=-146/200, 14-15=-51/72,

13-14=-443/1498, 12-13=-517/1499, 11-12=-514/1498

WEBS 5-17=0/341, 5-16=-886/339, 7-16=-424/1042,

3-20=-625/228, 3-19=-787/206,

7-14=-66/199, 8-14=-577/292,

14-16=-180/1088, 8-13=0/266, 9-13=-76/96,

9-12=-32/77, 3-18=-677/2185

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-7-3 Zone1 1-7-3 to 15-6-0, Zone2 15-6-0 to 19-10-10, Zone1 19-10-10 to 31-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 405 lb uplift at joint 2 and 320 lb uplift at joint 11.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

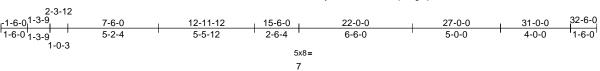


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	A07	Roof Special	1	1	Job Reference (optional)	T35407026

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:10 ID:uDe5k5hwtilNEKH7P4DzxRycA1K-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



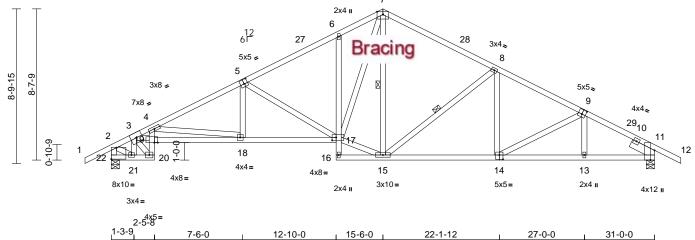


Plate Offsets (X, Y): [5:0-2-8,0-3-0], [9:0-2-8,0-3-0], [11:0-6-11,Edge], [14:0-2-8,0-3-0], [17:0-2-12,0-2-0], [19:0-2-4,Edge], [22:Edge,0-7-12]

5-4-0

5-0-8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.15	6-17	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.29	17-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.20	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.14	6-17	>999	240	Weight: 203 lb	FT = 20%

2-8-0

6-7-12

4-10-4

4-0-0

LUMBER

Scale = 1:65.7

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

Right 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing

WFBS 1 Row at midpt 7-15, 8-15 REACTIONS (size) 11=0-5-8, 22=0-5-8

Max Horiz 22=254 (LC 11)

Max Uplift 11=-402 (LC 12), 22=-411 (LC 12) Max Grav 11=1222 (LC 1), 22=1231 (LC 1)

1-3-9

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/40, 2-3=-1044/353, 3-4=-3114/977,

4-6=-2240/761, 6-7=-1590/749, 2-22=-1134/544, 7-8=-1280/582,

8-11=-1726/644, 11-12=0/36 21-22=-187/284, 20-21=-229/993,

BOT CHORD 19-20=-197/980, 4-19=-45/551

18-19=-915/3305, 17-18=-518/1992

16-17=-3/5, 6-17=-212/228, 15-16=-40/42,

13-15=-434/1478, 11-13=-431/1464 4-18=-1324/401, 5-18=0/357, 5-17=-706/264,

7-17=-404/1074, 2-21=-286/938,

3-21=-658/219, 3-19=-705/2642,

7-15=-76/202, 15-17=-151/1103,

8-15=-571/292, 8-14=0/265, 9-14=-65/72,

9-13=-59/87, 3-20=-1064/209

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-3-14, Zone1 1-3-14 to 15-6-0, Zone2 15-6-0 to 19-10-10, Zone1 19-10-10 to 32-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 22 and 402 lb uplift at joint 11.

LOAD CASE(S) Standard



Page: 1

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



Job	Truss	Truss Type	Qty	Ply		
6242726	A08	Common	1	1	Job Reference (optional)	T35407027

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:10 ID:VxPNcNK96bOgVmbthPI?D0ycA5f-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

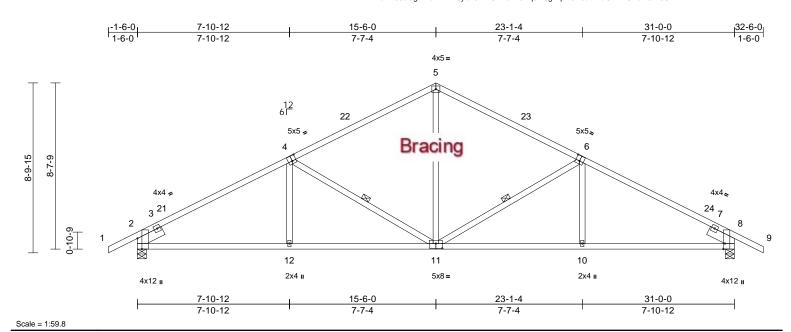


Plate Offsets (X, Y): [2:0-6-11,Edge], [4:0-2-8,0-3-4], [6:0-2-8,0-3-4], [8:0-3-8,Edge], [11:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	1/4	PLATES	GRIP
Loauling	(psi)	Spacing	2-0-0	631		DEFL	111	(IUC)	i/ueii	L/u	FLAILS	GKIF
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.14	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.29	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.12	10-11	>999	240	Weight: 160 lb	FT = 20%

LUMBER

BOT CHORD

2x4 SP No.2 *Except* 4-1,6-9:2x4 SP M 31 or TOP CHORD

2x4 SP SS 2x4 SP No.2

2x4 SP No 2 WFBS

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0 **BRACING**

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 8-8-11 oc

bracing

WFBS 1 Row at midpt 6-11, 4-11

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

Max Horiz 2=-254 (LC 10)

Max Uplift 2=-404 (LC 12), 8=-404 (LC 12) Max Grav 2=1228 (LC 1), 8=1228 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-5=-1799/645, 5-8=-1799/645, 8-9=0/36

BOT CHORD 2-12=-418/1546, 10-12=-446/1544,

8-10=-444/1525 **WEBS**

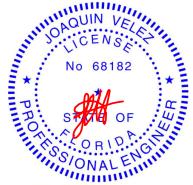
5-11=-204/701, 6-11=-574/300, 6-10=0/267, 4-11=-574/300, 4-12=0/267

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-7-3, Zone1 1-7-3 to 15-6-0, Zone2 15-6-0 to 19-10-10, Zone1 19-10-10 to 32-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 8 and 404 lb uplift at joint 2.

LOAD CASE(S) Standard



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



Job	Truss	Truss Type	Qty	Ply		
6242726	A09	Common	1	1	Job Reference (optional)	T35407028

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:10 ID:4HcYi5TdqnRlUsgE0_zMq2ycA6m-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

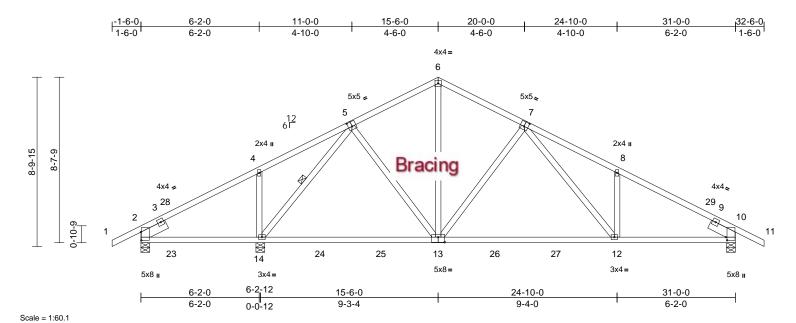


Plate Offsets (X, Y): [2:0-5-3,0-0-4], [5:0-2-8,0-3-0], [7:0-2-8,0-3-0], [10:0-2-0,0-0-12], [13:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.21	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.38	12-13	>794	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.09	14-21	>855	240	Weight: 176 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP M 31 or 2x4 SP SS 2x4 SP No.2 WEBS

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

BRACING TOP CHORD Structural wood sheathing directly applied or

2-6-7 oc purlins

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

bracing, Except: 6-0-0 oc bracing: 2-14.

WEBS 1 Row at midpt 5-14

REACTIONS (size) 2=0-5-8, 10=0-5-8, 14=0-5-8

Max Horiz 2=-254 (LC 10)

Max Uplift 2=-352 (LC 12), 10=-368 (LC 12), 14=-270 (LC 12)

Max Grav 2=330 (LC 23), 10=1133 (LC 18),

14=1406 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-4=-158/470, 4-6=-871/611, 6-8=-1583/695, 8-10=-1586/581, 10-11=0/36

BOT CHORD 2-14=-372/270. 12-14=-311/1001.

10-12=-395/1329

WEBS 4-14=-339/276, 6-13=-280/551,

8-12=-219/214. 5-13=0/378. 5-14=-1151/27.

7-13=-544/314, 7-12=-144/595

NOTES

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

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-7-3 Zone1 1-7-3 to 15-6-0, Zone2 15-6-0 to 20-0-8, Zone1 20-0-8 to 32-6-0 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP SS or M 31
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 10, 270 lb uplift at joint 14 and 352 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



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



Ply Job Truss Truss Type Qty T35407029 6242726 A10 2 Common Girder Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Wed Oct 30 08:26;36 ID:8Xq6nVNB6rMRNm?wMGJIbuycAfl-ils673E3NbPfLeJOyCZReXocpqgAsk_w5kBlzsyORqp

Page: 1

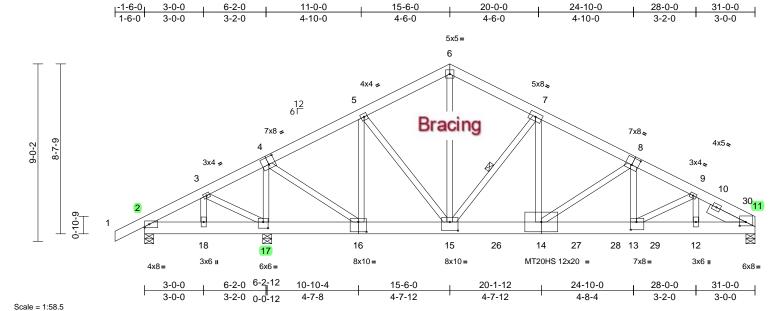


Plate Offsets (X, Y): [4:0-4-0,0-4-8], [8:0-4-0,0-4-8], [11:0-3-12,0-2-6], [13:0-3-8,0-4-12], [15:0-5-0,0-5-4], [16:0-5-0,0-6-0], [17:0-3-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50			14-15	>999		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.25	14-15	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.18	14-15	>999	240	Weight: 543 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x8 SP DSS 2x4 SP No.2 WEBS

SLIDER Right 2x6 SP No.2 -- 2-0-0

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-2-12 oc purlins.

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

bracing

WFBS 1 Row at midpt 7-15 2=-751/0-5-8, 11=7347/0-5-8,

REACTIONS (lb/size)

17=6181/0-5-8 Max Horiz 2=246 (LC 7)

Max Uplift 2=-927 (LC 20), 11=-2653 (LC 8),

17=-2600 (LC 8)

Max Grav 2=290 (LC 17), 11=7347 (LC 1),

17=6181 (LC 1)

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

TOP CHORD 2-3=-641/1768, 3-4=-712/1865, 4-5=-3024/1301, 5-6=-5324/2357,

6-7=-5301/2357, 7-8=-9021/3764,

8-9=-10841/4143, 9-10=-10393/3875,

10-11=-5797/2145

BOT CHORD 2-18=-1616/627, 17-18=-1616/627,

16-17=-1592/686, 15-16=-1016/2808, 15-26=-3131/7867, 14-26=-3131/7867,

14-27=-3649/9757, 27-28=-3649/9757,

13-28=-3649/9757, 13-29=-3247/8822,

12-29=-3247/8822, 11-12=-3247/8822

11-30=-3247/8822, 11-30=-3247/8822

4-17=-5465/2283, 8-13=-298/1689,

4-16=-2064/5155, 8-14=-2168/573 5-16=-3742/1660, 5-15=-1373/3345

6-15=-1929/4441, 7-15=-5262/2113,

7-14=-2168/5651, 9-13=-462/1120,

9-12=-27/317

NOTES

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

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

Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. Except member 9-12 2x4 - 2 rows staggered at 0-5-0 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 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2600 lb uplift at joint 17, 2653 lb uplift at joint 11 and 927 lb uplift at joint

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4820 lb down and 2288 lb up at 17-10-8, 1011 lb down and 328 lb up at 19-11-4, 1011 lb down and 320 lb up at 21-11-4, 1011 lb down and 313 lb up at 23-11-4, 1008 lb down and 306 lb up at 25-11-4, and 1008 lb down and 302 lb up at 27-11-4, and 1004 lb down and 297 lb up at 29-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-6=-54, 6-11=-54, 19-23=-20

Concentrated Loads (lb)

Vert: 14=-1011 (B), 12=-1008 (B), 26=-4365 (B), 27=-1011 (B), 28=-1011 (B), 29=-1008 (B), 30=-1004



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

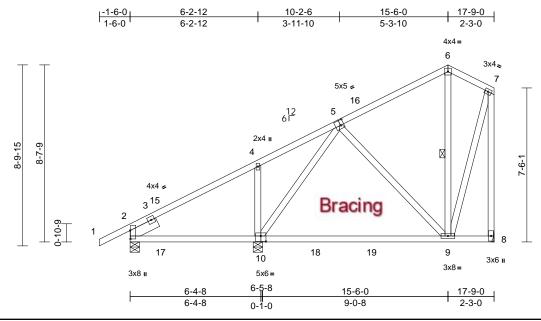
October 30,2024

WEBS

Job	Truss	Truss Type	Qty	Ply		
6242726	A11	Common	6	1	Job Reference (optional)	T35407030

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:10 ID:f6sbhvN3wSspsY5bI5P_UIycAnV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.2

Plate Offsets (X, Y): [2:0-4-15,0-0-4], [5:0-2-0,0-3-0], [10:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.20	9-10	>671	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.33	9-10	>411	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	-0.03	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.12	10-13	>613	240	Weight: 122 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

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

BOT CHORD Rigid ceiling directly applied or 5-9-1 oc

bracing

WFBS 1 Row at midpt 6-9

REACTIONS (size) 2=0-5-8, 8= Mechanical, 10=0-5-8

Max Horiz 2=323 (LC 12)

Max Uplift 2=-364 (LC 12), 8=-277 (LC 12)

Max Grav 2=422 (LC 23), 8=530 (LC 17),

10=655 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36 2-4=-320/581 4-6=-300/716

6-7=-171/141, 7-8=-616/433

BOT CHORD 2-9=-765/303, 8-9=-3/0 WEBS 6-9=-97/109, 7-9=-348/557, 4-10=-269/292,

5-10=-545/2, 5-9=-214/524

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-6-0, Zone3 15-6-0 to 17-7-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 10 6) SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 364 lb uplift at joint 2 and 277 lb uplift at joint 8.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



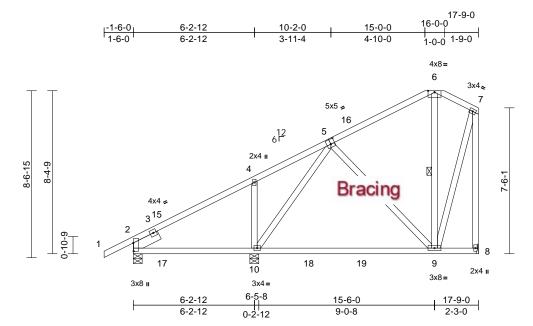
🔼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	A12	Hip	1	1	Job Reference (optional)	T35407031

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:11 ID: o96MTTQ? OU7Rb2Ri0r1mbrycArJ-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full file of the context of the

Page: 1



Scale = 1:59.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.21	9-10	>642	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.35	9-10	>392	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.11	10-13	>709	240	Weight: 121 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

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

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

bracing

WFBS 1 Row at midpt 6-9

REACTIONS (size) 2=0-5-8, 8= Mechanical, 10=0-5-8

Max Horiz 2=323 (LC 12)

Max Uplift 2=-363 (LC 12), 8=-277 (LC 12)

Max Grav 2=416 (LC 23), 8=532 (LC 17),

10=662 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36 2-4=-313/502 4-6=-302/626

6-7=-172/109. 7-8=-622/343

BOT CHORD 2-10=-672/277, 9-10=-398/286, 8-9=-2/0 7-9=-290/572, 6-9=-108/103, 4-10=-268/248,

5-10=-483/0, 5-9=-213/455

WEBS NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-6-0, Zone3 15-6-0 to 17-7-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 10 7) SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 2 and 277 lb uplift at joint 8.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

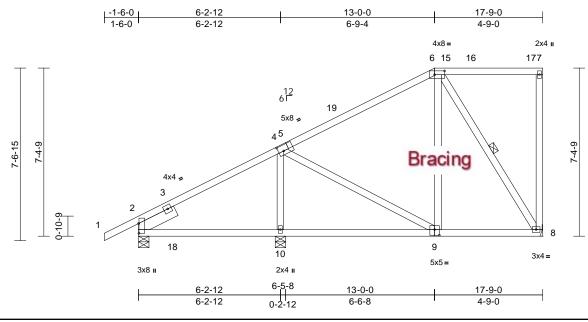
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
6242726	A13	Half Hip	1	1	T35407032 Job Reference (optional)

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:11 ID:jfY7wT?cxXN133_CfnRKM9ycAt8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.09	10-13	>792	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.07	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 110 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-10-0 SLIDER

BRACING

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

BOT CHORD Rigid ceiling directly applied or 6-11-6 oc

bracing WFBS

1 Row at midpt 6-8

Max Grav

2=0-5-8, 8= Mechanical, 10=0-5-8 REACTIONS (size)

Max Horiz 2=315 (LC 12)

Max Uplift 2=-306 (LC 12), 8=-241 (LC 12), 10=-85 (LC 12)

2=402 (LC 1), 8=465 (LC 1),

10=517 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

6-7=-6/3, 7-8=-121/83, 1-2=0/36, 2-4=-196/458, 4-6=-329/133 BOT CHORD 2-10=-579/235, 8-10=-579/220

WEBS 4-10=-422/62, 4-9=-29/450, 6-9=-105/246,

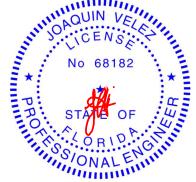
6-8=-383/332

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 17-7-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2 , Joint 10 $\,$ SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 8, 85 lb uplift at joint 10 and 306 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

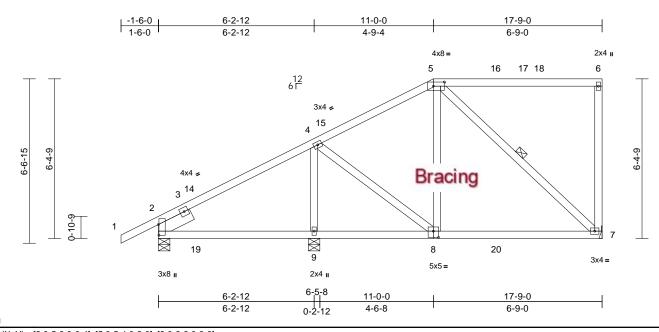


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	A14	Half Hip	1	1	Job Reference (optional)	T35407033

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:11 ID:WQScrz7PzrybSZOY0HFGE6ycBbS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:46.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.08	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.13	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.09	9-12	>816	240	Weight: 104 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

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

BOT CHORD Rigid ceiling directly applied or 6-10-12 oc

bracing WFBS

1 Row at midpt 5-7

2=0-5-8, 7= Mechanical, 9=0-5-8 REACTIONS (size)

Max Horiz 2=274 (LC 12)

Max Uplift 2=-342 (LC 12), 7=-237 (LC 12),

9=-53 (LC 12)

Max Grav 2=468 (LC 2), 7=566 (LC 17),

9=508 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-385/466, 4-5=-439/248,

5-6=-20/9, 6-7=-177/130 BOT CHORD 2-9=-600/306 7-9=-600/357

WEBS 4-9=-391/0. 4-8=-9/420. 5-8=-134/269.

5-7=-459/353

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 17-7-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 9 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 7, 53 lb uplift at joint 9 and 342 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



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



Job	Truss	Truss Type	Qty	Ply		
6242726	A15	Half Hip	1	1	Job Reference (optional)	T35407034

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:11 ID:o9CivU_pLf_4ZzeIyq2_t4ycBcx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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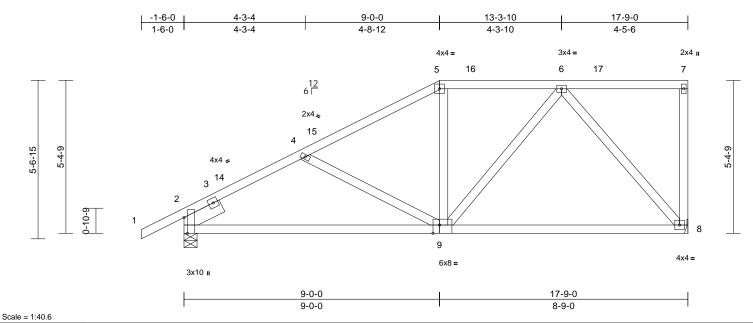


Plate Offsets (X, Y): [2:0-6-11,Edge], [9:0-2-12,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.13	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.27	8-9	>774	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.03	8-9	>999	240	Weight: 102 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-7 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 8-9-8 oc

bracing.

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

Max Horiz 2=233 (LC 12)

Max Uplift 2=-238 (LC 12), 8=-210 (LC 12) Max Grav 2=736 (LC 1), 8=648 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-4=-908/317, 4-5=-722/215,

5-6=-594/246, 6-7=-20/0, 7-8=-100/78

BOT CHORD 2-8=-431/772

WEBS 5-9=0/175, 4-9=-223/211, 6-9=-78/307,

6-8=-617/304

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-3-10, Zone1 13-3-10 to 17-7-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 8 and 238 lb uplift at joint 2.

LOAD CASE(S) Standard



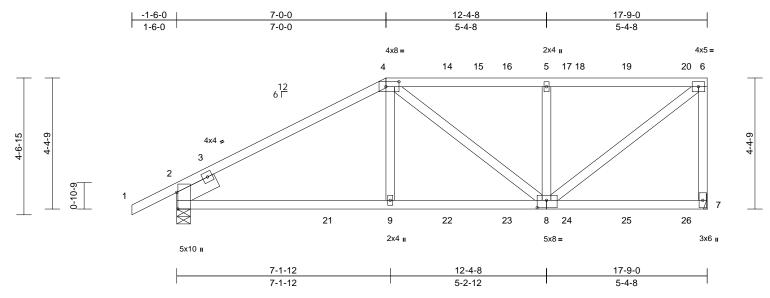
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October 30,2024

Job	Truss	Truss Type	Qty	Ply		
6242726	A16	Half Hip Girder	1	1	Job Reference (optional)	T35407035

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:11 ID:Y9etRbgVTgimRzeIRNauqbycBdL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:38.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL (roof)	., ,	Plate Grip DOL	1.25	TC		Vert(LL)	-0.10	9-12			MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС		Vert(CT)		9-12	>999	240	-	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.45	Horz(CT)	-0.03	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.13	9-12	>999	240	Weight: 96 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 8-2:2x4 SP M 31 or BOT CHORD

2x4 SP SS

WFBS 2x4 SP No 2 **SLIDER** Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied or 8-2-5 oc

bracing

REACTIONS (size) 2=0-5-8, 7= Mechanical

Max Horiz 2=192 (LC 8)

Max Uplift 2=-495 (LC 8), 7=-517 (LC 8)

Max Grav 2=1372 (LC 13), 7=1557 (LC 13)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-1910/614, 4-5=-1458/491,

5-6=-1458/491, 6-7=-1396/574

BOT CHORD 2-9=-598/1660, 7-9=-599/1679

WEBS 4-9=-34/566, 4-8=-278/136, 5-8=-691/492,

6-8=-608/1804

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP SS or M 31.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 517 lb uplift at joint 7 and 495 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 135 lb down and 111 lb up at 7-0-0, 135 lb down and 111 lb up at 9-0-12, 140 lb down and 115 lb up at 11-0-12, 141 lb down and 115 lb up at 13-0-12, and 141 lb down and 115 lb up at 15-0-12, and 144 lb down and 117 lb up at 17-0-12 on top chord, and 419 lb down and 179 lb up at 5-0-12, 85 lb down at 7-0-12, 85 lb down at 9-0-12, 86 lb down at 11-0-12, 86 lb down at 13-0-12, and 86 lb down at 15-0-12, and 95 lb down at 17-0-12 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- 11) 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-54, 4-6=-54, 7-10=-20

Concentrated Loads (lb)

Vert: 4=-109 (B), 9=-65 (B), 14=-109 (B), 16=-114 (B), 17=-114 (B), 19=-114 (B), 20=-126 (B), 21=-380 (B), 22=-65 (B), 23=-69 (B), 24=-69 (B), 25=-69 (B), 26=-74 (B)



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October 30,2024



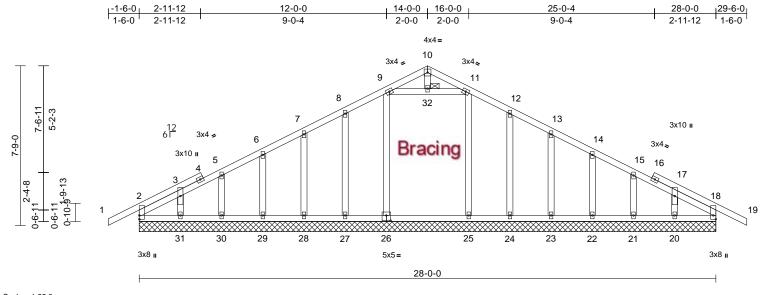
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job	Truss	Truss Type	Qty	Ply		
6242726	B01	Common Supported Gable	1	1	Job Reference (optional)	T35407036

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:12 ID:bFzhWNssnUquxXvN?hezH0ycQuT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.9

Plate Offsets (X, Y): [18:	Edge,0-1-8], [26:0-2-8,0-3-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 173 lb	FT = 20%

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

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins. BOT CHORD

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

JOINTS 1 Brace at Jt(s): 32

REACTIONS (size)

2=28-0-0, 18=28-0-0, 20=28-0-0, 21=28-0-0, 22=28-0-0, 23=28-0-0, 24=28-0-0, 25=28-0-0, 26=28-0-0, 27=28-0-0, 28=28-0-0, 29=28-0-0, 30=28-0-0, 31=28-0-0, 33=28-0-0,

37=28-0-0

Max Horiz 2=-217 (LC 10), 33=-217 (LC 10) Max Uplift 2=-97 (LC 12), 18=-97 (LC 12), 20=-49 (LC 8), 21=-61 (LC 12), 22=-63 (LC 12), 23=-61 (LC 12), 24=-66 (LC 12), 27=-66 (LC 12),

28=-61 (LC 12), 29=-63 (LC 12), 30=-61 (LC 12), 31=-58 (LC 9), 33=-97 (LC 12), 37=-97 (LC 12) 2=192 (LC 18), 18=177 (LC 24),

Max Grav 20=187 (LC 18), 21=180 (LC 18), 22=185 (LC 18), 23=195 (LC 18), 24=150 (LC 18), 25=311 (LC 18), 26=338 (LC 17), 27=151 (LC 17), 28=194 (LC 17), 29=187 (LC 17), 30=171 (LC 17), 31=209 (LC 17), 33=192 (LC 18), 37=177 (LC 24)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 10-11=-120/147, 11-12=-107/314, 12-13=-84/240, 13-14=-61/162,

14-15=-48/85, 15-17=-54/52, 17-18=-71/68, 18-19=0/36, 1-2=0/36, 2-3=-156/153, 3-5=-131/127, 5-6=-122/119, 6-7=-106/162,

7-8=-91/240, 8-9=-107/314, 9-10=-120/147 **BOT CHORD** 2-31=-65/147, 30-31=-65/147,

29-30=-65/147, 28-29=-65/147, 27-28=-65/147, 25-27=-65/147, 24-25=-65/147, 23-24=-65/147, 22-23=-65/147, 21-22=-65/147,

20-21=-65/147, 18-20=-65/147 10-32=-21/3, 9-26=-176/50, 8-27=-115/150, WEBS 7-28=-115/157, 6-29=-118/157, 5-30=-110/152, 3-31=-128/152,

11-25=-163/50, 12-24=-114/150 13-23=-116/157, 14-22=-117/157, 15-21=-111/153. 17-20=-112/155. 9-32=-47/223, 11-32=-47/223

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SP No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 2, 97 lb uplift at joint 18, 66 lb uplift at joint 27, 61 lb uplift at joint 28, 63 lb uplift at joint 29, 61 lb uplift at joint 30, 58 lb uplift at joint 31, 66 lb uplift at joint 24, 61 lb uplift at joint 23, 63 lb uplift at joint 22, 61 lb uplift at joint 21, 49 Ib uplift at joint 20, 97 lb uplift at joint 2 and 97 lb uplift at ioint 18.

LOAD CASE(S) Standard



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30.2024

FORCES

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



Job	Truss	Truss Type	Qty	Ply		
6242726	B02	Common	2	1	Job Reference (optional)	Г35407037

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:12 ID:cQB52tVAIGzbFQJWzF5soiycQsL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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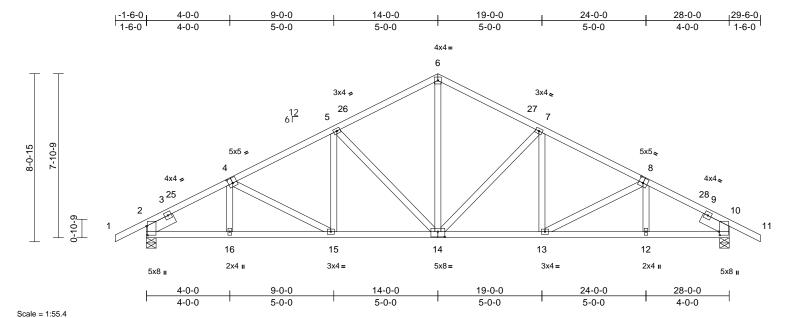


Plate Offsets (X, Y): [2:0-5-3,0-0-8], [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [10:0-2-0,0-0-8], [14:0-4-0,0-3-0]

•							-					•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.09	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.18	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.09	12-13	>999	240	Weight: 168 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-3-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 9-2-9 oc

bracing.

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=-227 (LC 10)

Max Uplift 2=-373 (LC 12), 10=-373 (LC 12)

Max Grav 2=1117 (LC 1), 10=1117 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-5=-1554/575, 5-6=-1143/540

6-7=-1143/540 7-10=-1554/575 10-11=0/36

BOT CHORD 2-16=-363/1357, 15-16=-365/1358, 13-15=-343/1277, 12-13=-392/1319

10-12=-389/1318

WFBS 6-14=-271/729, 4-16=-37/92, 4-15=-103/69,

5-15=0/248, 5-14=-492/258, 7-14=-492/258,

7-13=0/248, 8-13=-105/69, 8-12=-37/92

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 29-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 373 lb uplift at joint 10 and 373 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



Job	Truss	Truss Type	Qty	Ply		
6242726	B03	Common	1	1	Job Reference (optional)	T35407038

Run: 8,73 S Sep 25 2024 Print: 8,730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:12 ID:kG68dOhegNJh0UoLirrrmNycQqp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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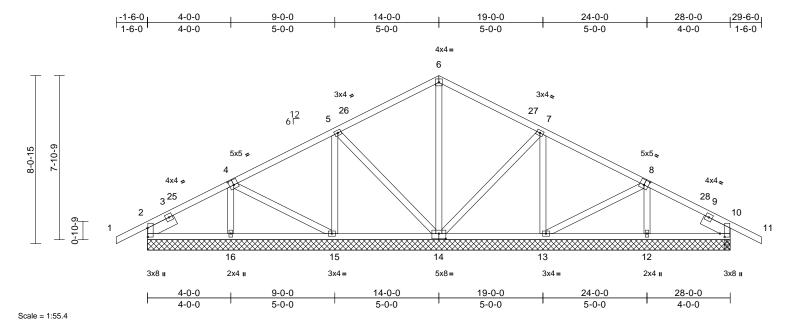


Plate Offsets (X, Y): [2:0-5-3,0-0-4], [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [10:0-2-0,0-2-12], [14:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL (roof)	. ,	Plate Grip DOL	1.25	TC		Vert(LL)		12-13			MT20	244/190
TCDL		Lumber DOL	1.25	BC		Vert(CT)		12-13			-	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	17	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.00	16-23	>999	240	Weight: 168 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing.

REACTIONS (size)

2=28-0-0, 10=28-0-0, 12=28-0-0, 13=28-0-0, 14=28-0-0, 15=28-0-0, 16=28-0-0, 17=28-0-0, 21=28-0-0

Max Horiz 2=-227 (LC 10), 21=-227 (LC 10) Max Uplift 2=-155 (LC 12), 10=-155 (LC 12),

12=-48 (LC 12), 13=-86 (LC 12), 14=-168 (LC 12), 15=-86 (LC 12), 16=-47 (LC 12), 17=-155 (LC 12),

21=-155 (LC 12)

Max Grav 2=269 (LC 23), 10=271 (LC 24), 12=291 (LC 1), 13=339 (LC 24), 14=447 (LC 1), 15=357 (LC 17),

16=293 (LC 1), 17=271 (LC 24), 21=269 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-5=-135/110, 5-6=-86/139, 6-7=-78/145, 7-10=-121/113, 10-11=0/36

BOT CHORD 2-16=-120/216, 15-16=-120/219,

13-15=-96/145, 12-13=-13/103, 10-12=-23/101

WEBS 6-14=-242/89, 4-16=-199/105, 4-15=-110/119,

5-15=-219/130, 5-14=-94/153, 7-14=-112/150, 7-13=-218/133 8-13=-110/118, 8-12=-197/105

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 29-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 10, 168 lb uplift at joint 14, 47 lb uplift at joint 16, 86 lb uplift at joint 15, 86 lb uplift at joint 13, 48 lb uplift at joint 12, 155 lb uplift at joint 2, 155 lb uplift at joint 10 and 155 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

NOTES

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



Job	Truss	Truss Type	Qty	Ply		
6242726	B04	Roof Special	1	1	Job Reference (optional)	T35407039

Run: 8,73 S Sep 25 2024 Print: 8,730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:12 ID:XsVZpJtckBRN3vPuca3WwqycQmi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

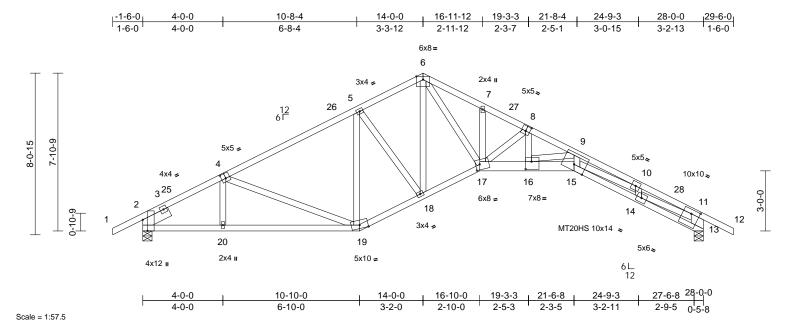


Plate Offsets (X, Y): [2:0-6-11,Edge], [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [11:0-5-0,0-2-8], [16:0-3-8,0-4-8], [17:0-2-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.41	15	>812	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.76	15	>437	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.55	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.37	15	>888	240	Weight: 175 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 17-15:2x6 SP DSS, BOT CHORD

15-13:2x4 SP M 31 or 2x4 SP SS

WFBS 2x4 SP No.2 *Except* 11-13:2x8 SP No.2

SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-5-5 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing

REACTIONS (size) 2=0-5-8, 13=0-5-8 Max Horiz 2=-228 (LC 10)

Max Uplift 2=-368 (LC 12), 13=-387 (LC 12)

Max Grav 2=1105 (LC 1), 13=1123 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-5=-1578/551, 5-6=-1384/603,

11-13=-1141/490 6-7=-2397/911 7-9=-3550/1122, 9-10=-6359/1921,

10-11=-3751/1172, 11-12=0/44

BOT CHORD 2-20=-371/1392, 19-20=-374/1392

18-19=-302/1301, 17-18=-222/1324

16-17=-809/3137, 15-16=-1691/6053,

14-15=-1010/3467, 13-14=-40/268 4-20=0/172, 4-19=-260/122, 5-19=-389/143,

6-17=-565/1780, 7-17=-122/175,

9-15=-529/2015, 10-15=-707/2620

10-14=-668/262, 11-14=-964/3196,

5-18=-80/173, 6-18=-159/149,

8-17=-1316/403, 8-16=-288/1127,

9-16=-2964/899

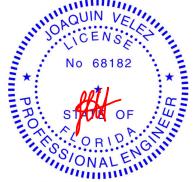
NOTES

WEBS

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

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 29-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 13 SP SS or M 31
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 13 and 368 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



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



Job	Truss	Truss Type	Qty	Ply		
6242726	B05	Roof Special	1	1	Job Reference (optional)	T35407040

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:13 ID:Koc8xpcRFWyiD6liYG1MKaycQcj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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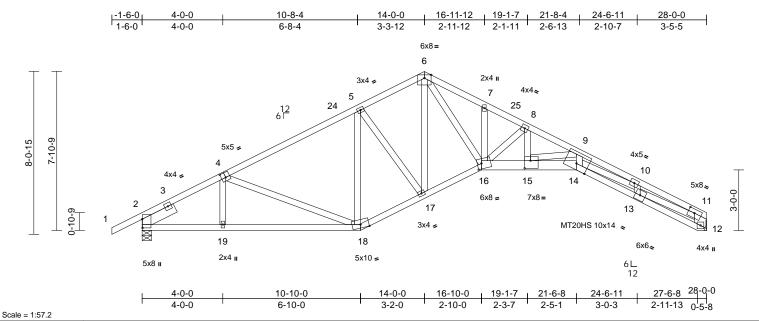


Plate Offsets (X, Y): [2:0-5-3,0-0-4], [4:0-2-8,0-3-0], [11:0-3-12,0-2-4], [15:0-3-8,0-4-8], [16:0-2-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.25	TC		Vert(LL)	-0.42	14			MT20	244/190
TCDL	7.0	Lumber DOL	1.25	вс	0.89	Vert(CT)	-0.78	14	>428	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.57	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.42	14	>800	240	Weight: 174 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 16-14:2x6 SP DSS, BOT CHORD 14-12:2x4 SP M 31 or 2x4 SP SS

2x4 SP No.2 *Except* 11-12:2x8 SP No.2

WFBS **SLIDER** Left 2x6 SP No.2 -- 1-10-0

BRACING

TOP CHORD

BOT CHORD

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

Rigid ceiling directly applied or 5-9-7 oc

BOT CHORD

bracing

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

Max Horiz 2=219 (LC 11)

Max Uplift 2=-371 (LC 12), 12=-286 (LC 12)

Max Grav 2=1108 (LC 1), 12=1023 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/36, 2-5=-1585/556, 5-6=-1393/618,

6-7=-2415/949 7-8=-2434/892 8-9=-3501/1199 9-10=-6447/2159

10-11=-4031/1490, 11-12=-1057/471

2-19=-443/1384, 18-19=-446/1383, 17-18=-380/1308, 16-17=-284/1333

15-16=-893/3142, 14-15=-1914/6145,

13-14=-1328/3751, 12-13=-126/268

4-19=0/182, 4-18=-263/119, 5-18=-393/178,

6-16=-611/1797, 7-16=-116/170,

9-14=-643/2073, 10-14=-702/2433 10-13=-682/307, 11-13=-1191/3411,

8-16=-1325/449, 8-15=-323/1120,

9-15=-3094/1061, 5-17=-79/154,

6-17=-120/149

NOTES

WEBS

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

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 27-8-6 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 12 and 371 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



Job	Truss	Truss Type	Qty	Ply		
6242726	B06	Roof Special	1	1	Job Reference (optional)	T35407041

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:13 ID:mVOOQn3Tx5h9lwQIBMb2qhycQT4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

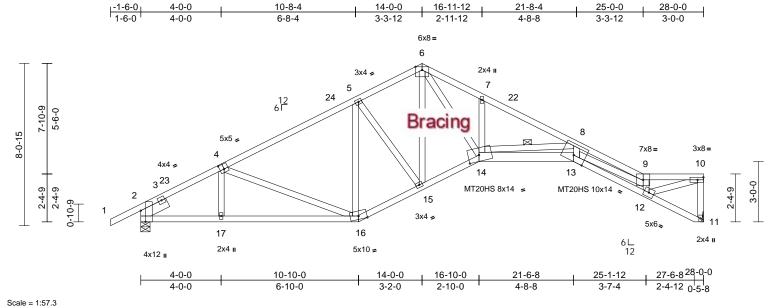


Plate Offsets (X, Y):	[2:0-6-11,Edge], [4:0-2-8,0-3-0]	, [14:0-6-8,0-3-12]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.47	13	>718	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.86	13	>389	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.62	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.48	13	>695	240	Weight: 171 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 6-9:2x4 SP M 31 or TOP CHORD

2x4 SP SS

2x4 SP No.2 *Except* 14-13:2x6 SP DSS, **BOT CHORD** 13-11:2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

bracing

WFBS 1 Row at midpt 8-14

REACTIONS (size) 2=0-5-8, 11= Mechanical

Max Horiz 2=199 (LC 11)

Max Uplift 2=-370 (LC 12), 11=-290 (LC 12)

Max Grav 2=1114 (LC 1), 11=1028 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 6-7=-2552/1072. 7-8=-2520/970.

> 8-9=-6550/2425, 9-10=-2874/1086 10-11=-1007/435, 1-2=0/36, 2-5=-1593/552,

5-6=-1406/636

BOT CHORD 2-17=-533/1376, 16-17=-537/1375,

15-16=-482/1319, 14-15=-412/1352 13-14=-2285/6283, 12-13=-1395/3646,

11-12=-15/42 **WEBS**

4-17=0/171, 4-16=-256/118, 5-16=-396/223,

6-14=-735/1953, 7-14=-336/287, 8-14=-4082/1551, 8-13=-780/2317, 9-13=-910/2631, 9-12=-2452/1004, 10-12=-1128/2998, 5-15=-82/150,

6-15=-113/138

NOTES

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

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 27-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 290 lb uplift at joint 11 and 370 lb uplift at joint 2.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

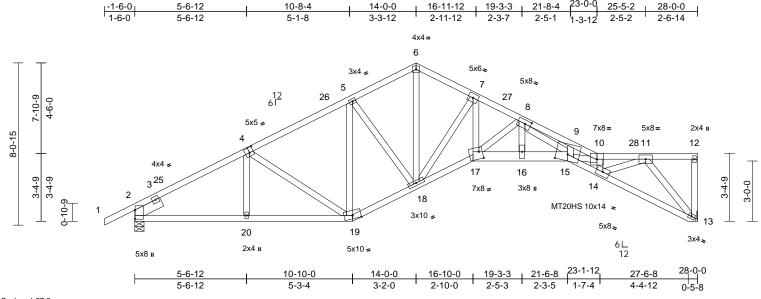


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	B07	Roof Special	1	1	Job Reference (optional)	Г35407042

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:13 ID:Doz?8woTQGoLP92LYHD_1EycC7S-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.3

Plate Offsets (X, Y): [2:0-5-7,0-0-4], [4:0-2-8,0-3-0], [8:0-3-9,0-2-4], [15:0-7-0,0-3-13], [17:0-2-0,0-4-4]

			-	1					-			•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.94	Vert(LL)	-0.42	15-16	>800	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.77	15-16	>431	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.58	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.44	15-16	>765	240	Weight: 176 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 17-15:2x6 SP No.2, BOT CHORD

15-13:2x4 SP M 31 or 2x4 SP SS

WFBS 2x4 SP No 2

SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing

REACTIONS (size) 2=0-5-8, 13= Mechanical

Max Horiz 2=184 (LC 11)

Max Uplift 2=-366 (LC 12), 13=-294 (LC 12)

Max Grav 2=1114 (LC 1), 13=1028 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-5=-1584/552, 5-6=-1401/634,

6-7=-1372/641 7-8=-2461/995 8-9=-6274/2417, 9-10=-6326/2406.

10-11=-4450/1652, 11-12=-16/4, 12-13=-59/65

BOT CHORD 2-20=-556/1343, 19-20=-558/1342,

18-19=-510/1305, 17-18=-909/2519 16-17=-1241/3359, 15-16=-1243/3365,

14-15=-2044/5453, 13-14=-525/1255 **WEBS**

4-20=0/165, 4-19=-268/126, 5-19=-365/200, 5-18=-39/176, 6-18=-438/1045, 7-17=-686/1970, 9-15=0/113, 10-15=-289/679, 10-14=-3007/1165, 11-13=-1829/769, 11-14=-1271/3574,

7-18=-1889/739, 8-17=-1527/591, 8-16=-117/451, 8-15=-1160/2989

NOTES

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

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 27-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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. Bearings are assumed to be: Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 13 and 366 lb uplift at joint 2.

LOAD CASE(S) Standard



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30.2024



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



Job	Truss	Truss Type	Qty	Ply		
6242726	B08	Roof Special	1	1	T354 Job Reference (optional)	107043

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:14 ID:eoT_zmCs8c6wXsjFEfkpfVycC0T-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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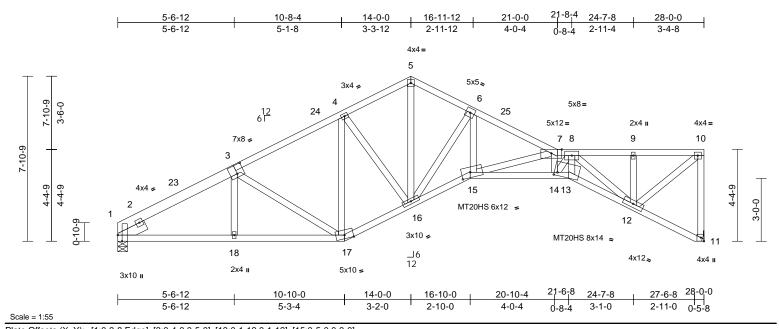


Plate Offsets (X, Y): [1:0-3-8,Edge], [3:0-4-0,0-5-0], [13:0-1-12,0-1-12], [15:0-5-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.32	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.60	14-15	>554	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.46	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.34	14-15	>970	240	Weight: 178 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-3:2x6 SP No.2 2x4 SP No.2 *Except* 15-13,13-11:2x4 SP M BOT CHORD

31 or 2x4 SP SS 2x4 SP No 2

WFBS SLIDER Left 2x6 SP No.2 -- 1-5-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-3-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 4-11-11 oc

bracing

REACTIONS (size) 1=0-5-8, 11= Mechanical

Max Horiz 1=-156 (LC 10)

Max Uplift 1=-277 (LC 12), 11=-301 (LC 12)

Max Grav 1=1031 (LC 1), 11=1031 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-4=-1645/603, 4-5=-1403/641, TOP CHORD

5-6=-1394/650 6-7=-2484/1004 7-8=-4841/1874, 8-9=-1187/477,

9-10=-1187/477, 10-11=-1017/463 1-18=-607/1390, 17-18=-607/1390,

16-17=-550/1308. 15-16=-996/2561 14-15=-1828/4748, 13-14=-1662/4281,

12-13=-1740/4472, 11-12=-17/40

WEBS 3-18=0/192, 3-17=-312/179, 4-17=-351/214,

4-16=-40/174, 5-16=-458/1075, 6-15=-666/1889, 7-15=-2633/1005, 6-16=-1953/810, 7-14=-701/351, 8-14=-349/923, 8-13=-767/1963, 8-12=-3794/1452, 9-12=-282/210,

10-12=-610/1523

NOTES

BOT CHORD

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

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 27-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 1 SP No.2
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 1 and 301 lb uplift at joint 11.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



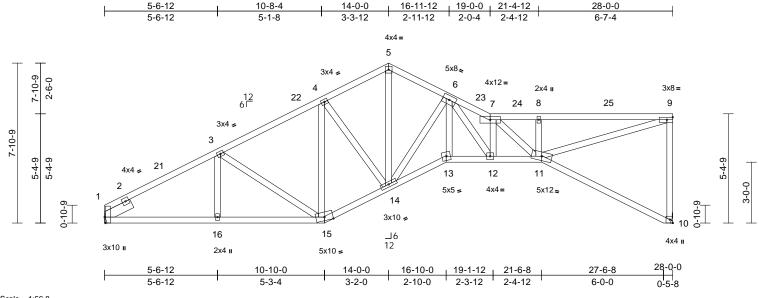
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	B09	Roof Special	1	1	Job Reference (optional)	T35407044

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:14 ID:xU_tGtEQovNHq4ng9fUIADycBgU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.21	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.40	12-13	>839	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.28	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.23	12-13	>999	240	Weight: 174 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

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

bracing.

REACTIONS (size) 1= Mechanical, 10= Mechanical

Max Horiz 1=186 (LC 12)

Max Uplift 1=-270 (LC 12), 10=-308 (LC 12) Max Grav 1=1031 (LC 1), 10=1031 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-3=-1603/588, 3-4=-1347/548, 4-5=-1405/635, 5-6=-1388/638,

6-7=-3362/1351, 7-8=-2496/1007,

8-9=-2473/990. 9-10=-974/483

BOT CHORD 1-16=-631/1363, 15-16=-631/1363, 14-15=-583/1311, 13-14=-1030/2534,

12-13=-898/2214, 11-12=-1167/2936,

10-11=-37/76

WEBS 3-16=0/167, 3-15=-278/178, 4-15=-361/230, 4-14=-44/172, 5-14=-440/1063,

6-13=-421/1166, 6-12=-522/1392, 7-12=-1123/449, 7-11=-570/236,

8-11=-338/254, 9-11=-1032/2581,

6-14=-1913/803

NOTES

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

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 27-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 1 and 308 lb uplift at joint 10.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



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



Job	Truss	Truss Type	Qty	Ply		
6242726	B10	Roof Special	1	1	Job Reference (optional)	T35407045

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:14 ID:4cRMOBdZjFtz7l4mOJ2jLTycBeh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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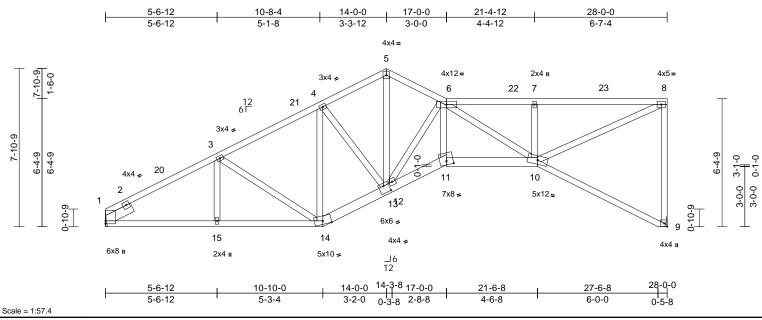


Plate Offsets (X, Y): [11:0-4-0,0-2-3], [13:0-3-0,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.15	11	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.27	11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.18	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.16	11	>999	240	Weight: 181 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 14-11,11-10:2x6 SP BOT CHORD

No.2

WFBS 2x4 SP No 2

SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals.

Rigid ceiling directly applied or 7-1-11 oc

bracing

REACTIONS (size) 1= Mechanical, 9= Mechanical

Max Horiz 1=227 (LC 12)

Max Uplift 1=-262 (LC 12), 9=-316 (LC 12)

Max Grav 1=1031 (LC 1), 9=1031 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-3=-1603/581, 3-4=-1348/539, TOP CHORD

4-5=-1454/657, 5-6=-1423/644.

6-7=-1715/705, 7-8=-1698/693. 8-9=-975/490

1-15=-660/1365, 14-15=-660/1365, BOT CHORD

13-14=-628/1347, 12-13=-416/890

11-12=-1069/2546. 10-11=-956/2282.

9-10=-40/73

WEBS 3-15=0/164, 3-14=-274/180, 4-14=-437/277, 4-13=-36/227, 5-13=-437/1091,

6-11=-442/1217, 6-10=-683/325 7-10=-354/253, 8-10=-763/1871,

6-12=-1902/788

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 14-0-0, Zone3 14-0-0 to 17-0-0, Zone1 17-0-0 to 27-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 1 and 316 lb uplift at joint 9.

LOAD CASE(S) Standard



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



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



Job	Truss	Truss Type	Qty	Ply		
6242726	C01	Attic Supported Gable	1	1	Job Reference (optional)	T35407046

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:14 ID:0mS5oeYZc5zPEphy8wGUsyycR_1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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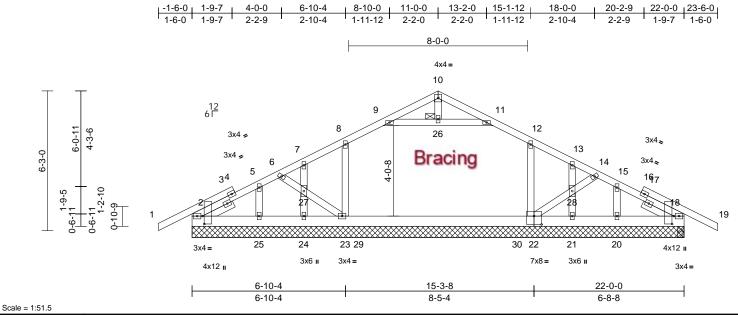


Plate Offsets (X, Y): [2:0-4-4,0-1-0], [18:0-4-4,0-1-0], [22:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.04	22-23	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.07	22-23	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.00	2-25	>999	240	Weight: 143 lb	FT = 20%

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

LUMBER

BRACING

2x4 SP No.2 WEBS OTHERS 2x4 SP No 2

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

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 26

REACTIONS (size) 2=22-0-0, 18=22-0-0, 20=22-0-0,

21=22-0-0, 22=22-0-0, 23=22-0-0, 24=22-0-0, 25=22-0-0

Max Horiz 2=-168 (LC 10)

2=-222 (LC 12), 18=-221 (LC 12), Max Uplift

20=-9 (LC 8), 21=-172 (LC 16),

24=-150 (LC 16), 25=-8 (LC 9) Max Grav 2=381 (LC 1), 18=379 (LC 1),

20=228 (LC 19), 21=61 (LC 1), 22=583 (LC 19), 23=562 (LC 18),

24=69 (LC 1), 25=225 (LC 18) (lb) - Maximum Compression/Maximum

Tension

FORCES

TOP CHORD 1-2=0/32, 2-5=-322/180, 5-6=-313/211,

6-7=-319/216, 7-8=-336/265, 8-9=-357/309, 9-10=-199/148, 10-11=-199/148,

11-12=-357/311, 12-13=-329/263 13-14=-313/215, 14-15=-309/212, 15-18=-318/182, 18-19=0/32

BOT CHORD 2-25=-62/277, 24-25=-56/268 23-24=-56/268, 21-23=-56/295,

20-21=-56/244, 18-20=-59/251

WEBS

12-22=-183/156, 8-23=-181/151, 9-26=-125/193, 11-26=-125/193, 10-26=-1/0, 6-27=0/48, 23-27=0/53, 22-28=-20/69, 14-28=-20/60, 7-27=-99/93, 24-27=-111/97, 5-25=-138/91, 13-28=-97/91, 21-28=-111/94, 15-20=-133/92

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0. Zone2 11-0-0 to 15-1-12. Zone1 15-1-12 to 23-6-0 zone: cantilever 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 18, 222 lb uplift at joint 2, 150 lb uplift at joint 24, 8 lb uplift at joint 25, 172 lb uplift at joint 21 and 9 lb uplift at joint 20.

11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



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



Job	Truss	Truss Type	Qty	Ply		
6242726	C02	Attic	5	1	Job Reference (optional)	T35407047

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:14 ID: BhCXprlS08ncgLRtmyN0M0ycQz3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

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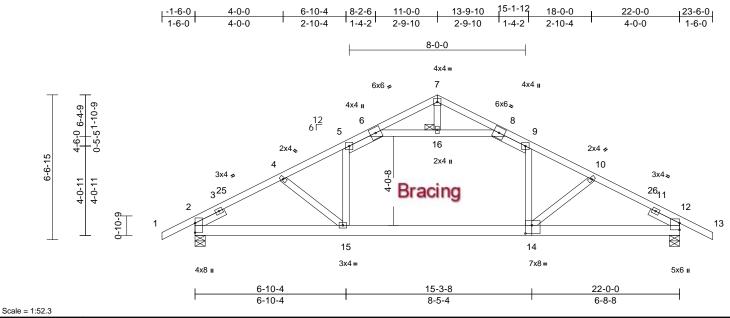


Plate Offsets (X, Y): [14:0-3-8,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.23	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.37	14-15	>722	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.09	15-23	>999	240	Weight: 135 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except* 14-2:2x6 SP DSS

2x4 SP No.2 WEBS

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-7-9 oc purlins

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

bracing.

JOINTS 1 Brace at Jt(s): 16

REACTIONS (size) 2=0-5-8, 12=0-5-8 Max Horiz 2=177 (LC 11)

Max Uplift 2=-196 (LC 12), 12=-196 (LC 12)

Max Grav 2=1233 (LC 18), 12=1237 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-1917/292, 4-5=-1815/254,

5-6=-1520/297, 6-7=-198/108, 7-8=-199/108,

8-9=-1519/295, 9-10=-1823/251, 10-12=-1914/286, 12-13=0/36

BOT CHORD 2-15=-138/1773, 12-15=-152/1648 **WEBS** 9-14=0/572, 5-15=0/551, 6-16=-1548/232,

8-16=-1548/232, 7-16=0/96, 4-15=-206/141, 10-14=-190/143

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-1-12, Zone1 15-1-12 to 23-6-0 zone: cantilever left and right exposed :C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-16, 8-16; Wall dead load (5.0psf) on member(s).9-14, 5-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
- Bearings are assumed to be: Joint 2 SP DSS, Joint 12 SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 12 and 196 lb uplift at joint 2.
- 10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

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



Job	Truss	Truss Type	Qty	Ply		
6242726	C03	Attic	1	1	Job Reference (optional)	T35407048

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:15 ID:6nttkDea0yZSnmXwxvKIYDycQul-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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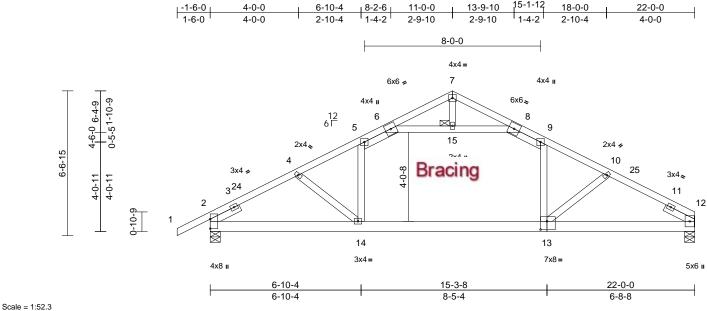


Plate Offsets (X, Y): [12:0-4-3,0-0-4], [13:0-3-8,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.23	13-14	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.37	13-14	>722	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	-0.09	14-22	>999	240	Weight: 133 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except* 13-2:2x6 SP DSS

2x4 SP No.2 WEBS

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-7-9 oc purlins

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

bracing. JOINTS

1 Brace at Jt(s): 15 **REACTIONS** (size) 2=0-5-8, 12=0-5-8

Max Horiz 2=173 (LC 11)

Max Uplift 2=-199 (LC 12), 12=-111 (LC 12)

Max Grav 2=1234 (LC 18), 12=1162 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-4=-1922/295, 4-5=-1823/258,

5-6=-1527/300, 6-7=-198/108, 7-8=-198/104,

8-9=-1524/315. 9-10=-1830/289. 10-12=-1927/345

BOT CHORD 2-14=-196/1764, 12-14=-224/1658

WEBS 9-13=0/575, 5-14=0/551, 6-15=-1554/257,

8-15=-1554/257, 7-15=0/96, 4-14=-206/132,

10-13=-204/174

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-1-12, Zone1 15-1-12 to 22-0-0 zone: cantilever left and right exposed :C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-15, 8-15; Wall dead load (5.0psf) on member(s).9-13, 5-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
- Bearings are assumed to be: Joint 2 SP DSS, Joint 12 SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 12 and 199 lb uplift at joint 2.
- 10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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October 30,2024

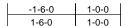


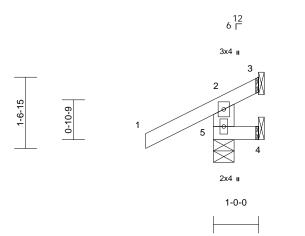
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	CJ1	Corner Jack	8	1	Job Reference (optional)	T35407049

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:15 ID: 4E1wlyMTeHwHGuOVWK3tzUycR4k-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:25.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	0.00	4-5	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-5-8

Max Horiz 5=93 (LC 12)

Max Uplift 3=-44 (LC 1), 4=-35 (LC 1), 5=-163 (LC 12)

Max Grav 3=33 (LC 12), 4=22 (LC 8), 5=228

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-178/361, 1-2=0/42, 2-3=-38/37

BOT CHORD 4-5=0/0

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 5, 35 lb uplift at joint 4 and 44 lb uplift at joint 3.

LOAD CASE(S) Standard



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October 30,2024

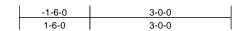
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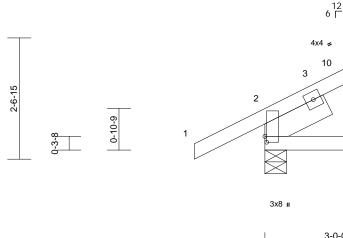


Job	Truss	Truss Type	Qty	Ply		
6242726	CJ3	Corner Jack	4	1	Job Reference (optional)	T35407050

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Page: 1

3-0-0

Scale = 1:24.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.00	5-8	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.01	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP		Wind(LL)	0.01	5-8	>999	240	Weight: 16 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-0 oc purlins.

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

bracing.

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

Mechanical

Max Horiz 2=108 (LC 12)

Max Uplift 2=-103 (LC 12), 4=-45 (LC 12) Max Grav 2=210 (LC 1), 4=65 (LC 17), 5=49

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-149/37

BOT CHORD 2-5=-120/73

NOTES

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 103 lb uplift at joint 2.

LOAD CASE(S) Standard



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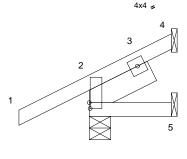


Job	Truss	Truss Type	Qty	Ply		
6242726	EJ2	Jack-Open	6	1	Job Reference (optional)	T35407051

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_	1-6-0	1-9-0
	1-6-0	1-9-0

6 ¹²





Page: 1

3x8 II

1-9-0

Scale = 1:24.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.00	8	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP		Wind(LL)	0.00	5-8	>999	240	Weight: 12 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-9-0 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=83 (LC 12)

Max Uplift 2=-109 (LC 12), 4=-19 (LC 9) Max Grav 2=180 (LC 1), 4=26 (LC 17), 5=25

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-103/43

BOT CHORD 2-5=-35/29

NOTES

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 2 and 19 lb uplift at joint 4.

LOAD CASE(S) Standard



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October 30,2024



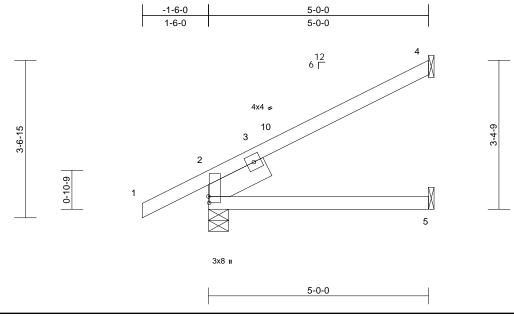
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Job	Truss	Truss Type	Qty	Ply		
6242726	EJ5	Jack-Open	2	1	Job Reference (optional)	T35407052

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Page: 1



Scale = 1:26.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.02	5-8	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.05	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP		Wind(LL)	0.07	5-8	>880	240	Weight: 22 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-0 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=149 (LC 12)

Max Uplift 2=-106 (LC 12), 4=-84 (LC 12) Max Grav 2=276 (LC 1), 4=121 (LC 17), 5=87

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-347/81

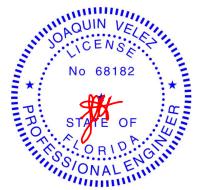
BOT CHORD 2-5=-340/168

NOTES

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 4 and 106 lb uplift at joint 2.

LOAD CASE(S) Standard



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October 30,2024



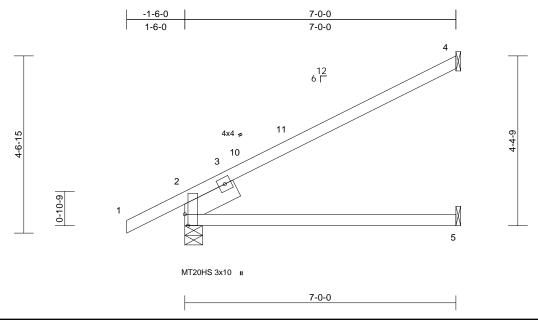
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Job	Truss	Truss Type	Qty	Ply		
6242726	EJ7	Jack-Open	14	1	Job Reference (optional)	T35407053

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Page: 1



Scale = 1:29.8

Plate Offsets	(X, Y):	[2:0-3-8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.09	5-8	>899	360	MT20HS	187/143
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.21	5-8	>392	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.08	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.21	5-8	>405	240	Weight: 28 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-4-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 9-1-11 oc

bracing.

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

Mechanical Max Horiz 2=190 (LC 12)

Max Uplift 2=-114 (LC 12), 4=-122 (LC 12) Max Grav 2=346 (LC 1), 4=174 (LC 17),

5=125 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-645/170

BOT CHORD 2-5=-507/265

NOTES

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- Bearings are assumed to be: , Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 4 and 114 lb uplift at joint 2.

LOAD CASE(S) Standard



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October 30,2024



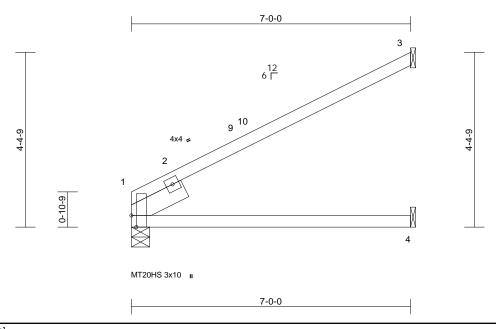
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Job	Truss	Truss Type	Qty	Ply		
6242726	EJ7A	Jack-Open	3	1	Job Reference (optional)	T35407054

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:15 ID:lbgsoFaxmKZOowJqfvMVHnycR0Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.94	Vert(LL)	-0.11	4-7	>771	360	MT20HS	187/143
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.23	4-7	>357	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.08	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.22	4-7	>381	240	Weight: 26 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied or 7-9-12 oc **BOT CHORD**

bracing.

REACTIONS (size) 1=0-5-8, 3= Mechanical, 4=

Mechanical 1=143 (LC 12)

Max Horiz Max Uplift 1=-25 (LC 12), 3=-125 (LC 12) Max Grav 1=257 (LC 1), 3=178 (LC 17),

4=126 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-3=-599/132 BOT CHORD 1-4=-537/266

NOTES

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 1 SP No.2 .

- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 125 lb uplift at joint 3.

LOAD CASE(S) Standard



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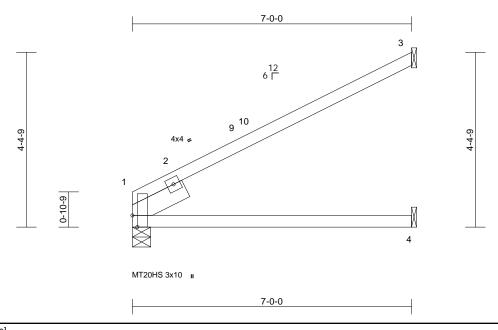
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Job	Truss	Truss Type	Qty	Ply		
6242726	EJ7B	Jack-Open	1	1	T: Job Reference (optional)	35407055

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Page: 1



Scale = 1:28.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.94	Vert(LL)	-0.11	4-7	>771	360	MT20HS	187/143	
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.23	4-7	>357	240	MT20	244/190	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.08	3	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.22	4-7	>381	240	Weight: 26 lb	FT = 20%	

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied or 7-9-12 oc **BOT CHORD**

bracing.

REACTIONS (size) 1=0-5-8, 3= Mechanical, 4=

Mechanical 1=143 (LC 12)

Max Horiz Max Uplift 1=-25 (LC 12), 3=-125 (LC 12) Max Grav 1=257 (LC 1), 3=178 (LC 17),

4=126 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-3=-599/132 BOT CHORD 1-4=-537/266

NOTES

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 1 SP No.2 .

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 125 lb uplift at joint 3.

LOAD CASE(S) Standard



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October 30,2024



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	Job	Truss	Truss Type	Qty	Ply		
Į	6242726	GT01	Half Hip Girder	1	2	Job Reference (optional)	T35407056

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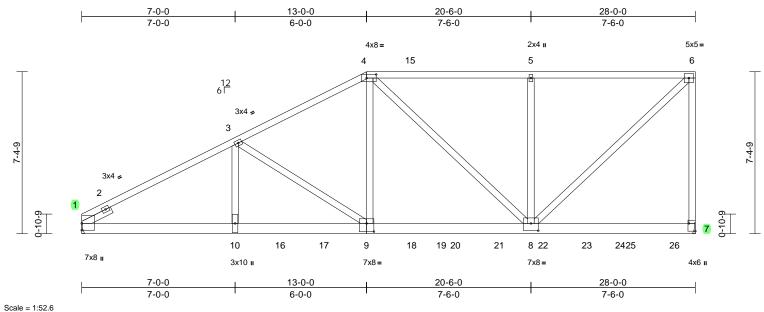


Plate Offsets (X, Y): [4:0-5-4,0-2-0], [7:Edge,0-3-8], [8:0-4-0,0-4-0], [9:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.17	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.30	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.20	9-10	>999	240	Weight: 372 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP M 31 or 2x4 SP SS *Except* 4-6:2x4

SP No.2

BOT CHORD 2x6 SP DSS 2x4 SP No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

4-1-1 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 1=3866/ Mechanical, 7=4385/

Mechanical Max Horiz 1=268 (LC 8)

Max Uplift 1=-1577 (LC 8), 7=-2276 (LC 8)

Max Grav 1=4158 (LC 13), 7=4796 (LC 13)

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

1-2=-4419/1514, 2-3=-7486/2932

3-4=-5678/2464, 4-15=-3941/1848,

5-15=-3941/1848. 5-6=-3941/1848.

6-7=-3867/1846

BOT CHORD 1-10=-2781/6645, 10-16=-2781/6645.

16-17=-2781/6645, 9-17=-2781/6645, 9-18=-2256/5060, 18-19=-2256/5060 19-20=-2256/5060, 20-21=-2256/5060,

8-21=-2256/5060

WEBS 3-10=-405/1642, 3-9=-1903/630,

4-9=-1270/3229, 4-8=-1532/559,

5-8=-454/294, 6-8=-2527/5395

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

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, Except member 3-10 2x4 - 1 row at 0-6-0 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 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1577 lb uplift at joint 1 and 2276 lb uplift at joint 7.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1553 lb down and 529 lb up at 7-0-12, 628 lb down and 222 Ib up at 9-0-12, 531 lb down and 249 lb up at 11-0-12, 445 lb down and 253 lb up at 13-0-12, 482 lb down and 288 lb up at 15-0-12, 492 lb down and 289 lb up at 17-0-12, 495 lb down and 289 lb up at 19-0-12, 495 lb down and 289 lb up at 21-0-12, 495 lb down and 289 lb up at 23-0-12, and 484 lb down and 289 lb up at 25-0-12, and 485 lb down and 288 lb up at 27-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-4=-54, 4-6=-54, 7-11=-20

Concentrated Loads (lb)

Vert: 10=-1497 (F), 9+445 (F), 16+628 (F), 17=-476 (F), 18=-451 (F), 20=-448 (F), 21=-448 (F), 23=-448 (F), 23=-448 (F), 26=-45 (VF)



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



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



Job	Truss	Truss Type	Qty	Ply		
6242726	GT02	Common Girder	1	2	Job Reference (optional)	T35407057

11-0-0

7-0-0

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

-1-6-0

4-0-0

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15-0-0

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22-0-0

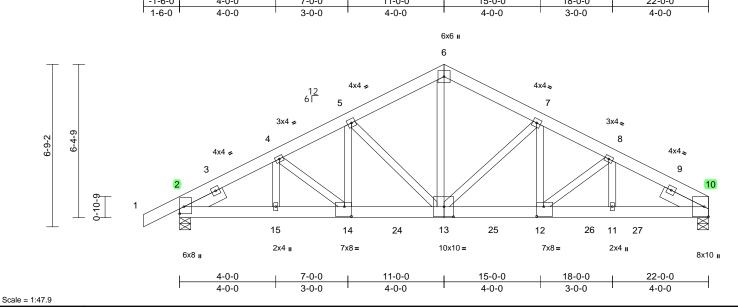


Plate Offsets (X, Y): [2:Edge,0-2-2], [12:0-3-8,0-4-12], [13:0-4-12,0-5-0], [14:0-3-8,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.12	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.23	12-13	>999	240	1	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.07	10	n/a	n/a	1	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.13	13-14	>999	240	Weight: 343 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 1-9-4, Right 2x6 SP No.2

-- 1-10-2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-1 oc purlins

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

bracing.

REACTIONS (lb/size) 2=5012/0-5-8, 10=6950/0-5-8

Max Horiz 2=172 (LC 7)

Max Uplift 2=-1609 (LC 8), 10=-2068 (LC 8)

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

TOP CHORD 2-3=-5991/1807, 3-4=-7949/2449, 4-5=-9017/2822. 5-6=-7163/2255.

6-7=-7166/2255, 7-8=-9181/2803, 8-9=-9736/2932, 9-10=-5935/1775

BOT CHORD 2-15=-2056/6822. 14-15=-2056/6822. 14-24=-2440/8119. 13-24=-2440/8119.

13-25=-2423/8273, 12-25=-2423/8273, 12-26=-2497/8437, 11-26=-2497/8437, 11-27=-2497/8437, 10-27=-2497/8437

6-13=-1860/6082, 4-15=-968/349, 4-14=-520/1683, 5-14=-687/2237,

5-13=-2468/846, 7-13=-2644/821, 7-12=-654/2411, 8-11=-245/935

NOTES

WFBS

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

Top chords connected as follows: 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, Except member 5-14 2x4 - 2 rows staggered at 0-7-0 oc, member 7-12 2x4 - 1 row at 0-7-0 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 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2068 lb uplift at joint 10 and 1609 lb uplift at joint 2.

Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2483 lb down and 801 lb up at 7-1-8, 1120 lb down and 348 lb up at 9-0-12, 1300 lb down and 332 lb up at 11-0-12, 1125 lb down and 332 lb up at 13-0-12, 1130 lb down and 329 lb up at 15-0-12, 1119 lb down and 330 lb up at 17-0-12, and 1125 lb down and 332 lb up at 19-0-12, and 1128 lb down and 330 lb up at 21-0-12 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-6=-54, 6-10=-54, 16-20=-20

Concentrated Loads (lb)

Vert: 13=-1125 (B), 14=-2403 (B), 12=-1130 (B),



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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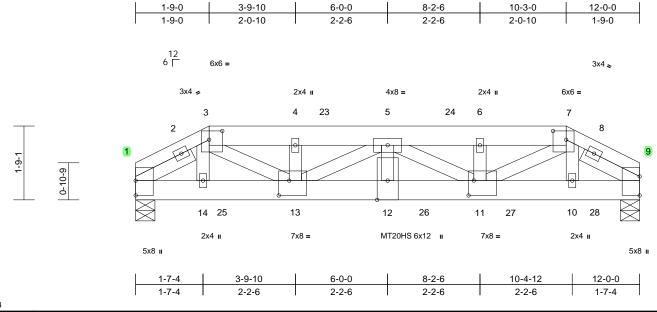
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job	Truss	Truss Type	Qty	Ply		
6242726	GT03	Hip Girder	1	2	Job Reference (optional)	T35407058

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Scale = 1:27.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.09	11-12	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.17	11-12	>867	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.11	11-12	>999	240	Weight: 155 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP No.2 *Except* 3-7:2x6 SP No.2

BOT CHORD 2x6 SP DSS 2x4 SP No.2 WEBS

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

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-4 oc purlins

BOT CHORD Rigid ceiling directly applied or 9-0-13 oc

bracing.

REACTIONS (lb/size) 1=2827/0-5-8, 9=4472/0-5-8

Max Horiz 1=-25 (LC 6)

Max Uplift 1=-1051 (LC 8), 9=-1612 (LC 8)

Max Grav 1=3026 (LC 13), 9=4650 (LC 14)

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

(lb) or less except when shown. TOP CHORD

1-2=-2160/742, 2-3=-4150/1453 3-4=-7694/2672, 4-23=-7690/2669.

5-23=-7690/2669, 5-24=-10391/3677,

6-24=-10391/3677, 6-7=-10392/3678,

7-8=-5935/2085, 8-9=-3061/1073

1-14=-1211/3532, 14-25=-1229/3574

13-25=-1229/3574, 12-13=-4054/11507

12-26=-4054/11507, 11-26=-4054/11507,

11-27=-1770/5095, 10-27=-1770/5095,

10-28=-1752/5061, 9-28=-1752/5061

3-14=-424/168, 7-10=-322/172,

3-13=-1715/4962, 7-11=-2272/6371, 4-13=-378/185, 5-13=-4425/1635,

5-12=-1001/2812, 5-11=-1286/466

NOTES

WEBS

BOT CHORD

- 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 0-3-0 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.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading
- requirements specific to the use of this truss component. 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1051 lb uplift at joint 1 and 1612 lb uplift at joint 9.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 131 lb down and 102 lb up at 1-9-0, 58 lb down and 16 lb up at 3-9-12, 58 lb down and 16 lb up at 5-9-12, 58 lb down and 16 lb up at 6-2-4, and 58 lb down and 16 lb up at 8-2-4, and 131 lb down and 102 lb up at 10-3-0 on top chord, and 94 lb down and 161 lb up at 1-9-0, 237 lb down and 37 lb up at 2-0-12, 6 lb down and 2 lb up at 3-9-12, 237 lb down and 37 lb up at 4-0-12, 6 lb down and 2 lb up at 5-9-12, 237 lb down and 37 lb up at 6-0-12, 6 lb down and 2 lb up at 6-2-4, 4138 lb down and 1589 lb up at 6-10-8, 6 lb down and 2 lb up at 8-2-4, 1011 lb down and 274 lb up at 8-11-4, and 94 lb down and 161 lb up at 10-2-4, and 1011 lb down and 282 lb up at 10-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanceth): Lumber Increase=1.25, Plate Increase=1.26 UIN VE Uniform Loads (b/ft) Vert: 1-3=54, 33=54, 79=54, 15:19=20 Concentrated Loads (lb) 68182

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> > October 30.2024

Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply		
6242726	GT03	Hip Girder	1	2	Job Reference (optional)	T35407058

28=-1011 (F)

Vert: 3=26 (B), 7=26 (B), 14=53 (B), 10=53 (B), 13=-235 (F=-237, B=2), 11=2 (B), 12=-233 (F=-237, B=4), 25=-237 (F), 26=-3846 (F), 27=-1011 (F),

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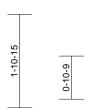
Job	Truss	Truss Type	Qty	Ply		
6242726	KJ2	Diagonal Hip Girder	2	1	Job Reference (optional)	T35407059

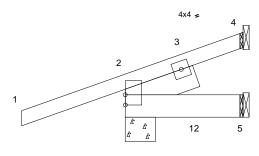
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4.24 T





4x6 II

2-4-15

Scale = 1:23.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.00	5-10	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.00	5-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP		Wind(LL)	0.00	5-10	>999	240	Weight: 16 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-4-15 oc purlins.

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

bracing.

REACTIONS (size) 2=0-7-6, 4= Mechanical, 5= Mechanical

Max Horiz 2=81 (LC 8)

Max Uplift 2=-248 (LC 8), 4=-26 (LC 19),

5=-133 (LC 19)

2=246 (LC 13), 4=22 (LC 26), Max Grav

5=105 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/38, 2-4=-128/156

BOT CHORD 2-5=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4, 248 lb uplift at joint 2 and 133 lb uplift at joint 5.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 107 lb up at 1-5-0, and 83 lb down and 107 lb up at 1-5-0 on top chord, and 14 lb down and 58 lb up at 1-5-0, and 14 lb down and 58 lb up at 1-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-54, 5-6=-20

Concentrated Loads (lb)

Vert: 3=55 (F=27, B=27), 12=55 (F=27, B=27)



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024



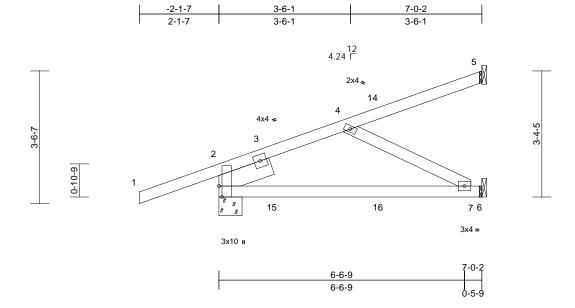
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	KJ5	Diagonal Hip Girder	2	1	Job Reference (optional)	T35407060

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:16 ID:Mvgi8v_iSzAxilA6SGRi_FycR_I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.7

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

1	(5)	0	0.0.0	001		DEEL		(1)	1/-1-61	1 /-1	DI ATEO	ODID
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/a	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.06	7-12	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.10	7-12	>870	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	-0.04	7-12	>999	240	Weight: 34 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-7-6, 5= Mechanical, 6=

Mechanical

Max Horiz 2=148 (LC 8)

Max Uplift 2=-271 (LC 8), 5=-64 (LC 8), 6=-33

(LC 5)

2=362 (LC 13), 5=103 (LC 19), Max Grav

6=147 (LC 13)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/38, 2-4=-382/326, 4-5=-82/28

2-7=-126/190, 6-7=0/0 BOT CHORD WFBS

4-7=-214/141

NOTES

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 2 SP No.2 .

- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 5, 271 lb uplift at joint 2 and 33 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down and 120 lb up at 1-5-0, 91 lb down and 120 lb up at 1-5-0, and 88 lb down and 47 lb up at 4-2-15, and 88 lb down and 47 lb up at 4-2-15 on top chord, and 11 lb down and 63 lb up at 1-5-0, 11 lb down and 63 lb up at 1-5-0, and 14 lb down at 4-2-15, and 14 lb down at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-5=-54, 6-8=-20 Concentrated Loads (lb)

Vert: 3=61 (F=31, B=31), 15=64 (F=32, B=32), 16=-9

(F=-4, B=-4)



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October 30,2024

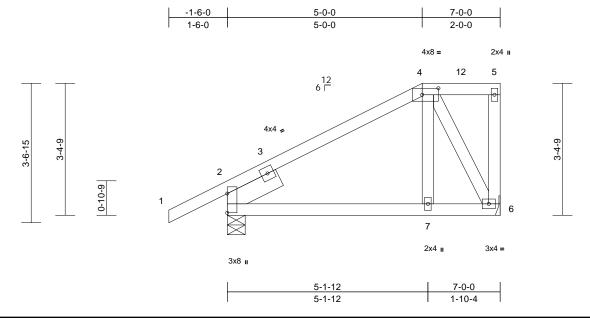
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
6242726	MG01	Half Hip Girder	2	1	Job Reference (optional)	T35407061

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:16 ID:BLZPznG7114gzHRXIbL5Q5ycR_O-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.01	7-10	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.03	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.10	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.02	7-10	>999	240	Weight: 41 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 1-6-0 SLIDER

BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 6= Mechanical

Max Horiz 2=151 (LC 8)

Max Uplift 2=-160 (LC 8), 6=-167 (LC 8) Max Grav 2=397 (LC 1), 6=437 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/36, 2-4=-262/71, 4-5=-3/2, 5-6=-34/28

TOP CHORD **BOT CHORD** 2-7=-150/245, 6-7=-100/257 WEBS 4-7=-8/299, 4-6=-498/193

NOTES

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 2 and 167 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 192 lb down and 137 lb up at 5-0-0 on top chord, and 171 lb down and 34 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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

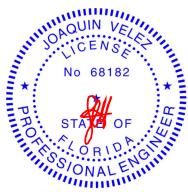
Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-54, 4-5=-54, 6-8=-20

Concentrated Loads (lb)

Vert: 4=-85 (F), 7=-124 (F)



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October 30,2024

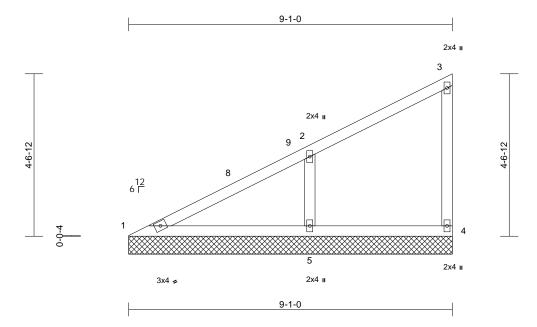


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
6242726	MV01	Valley	1	1	T35407062 Job Reference (optional)

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:16 ID:bVQhP_xWuXWFZWDnyUxg25ycR5H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 37 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 1=9-1-0, 4=9-1-0, 5=9-1-0

Max Horiz 1=178 (LC 12)

Max Uplift 4=-42 (LC 12), 5=-165 (LC 12)

1=152 (LC 1), 4=99 (LC 17), 5=430 Max Grav

(LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-250/125, 2-3=-70/28, 3-4=-79/135

BOT CHORD 1-5=-233/232 4-5=-6/3 WFBS 2-5=-292/359

NOTES

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 8-11-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 165 lb uplift at joint 5.

LOAD CASE(S) Standard



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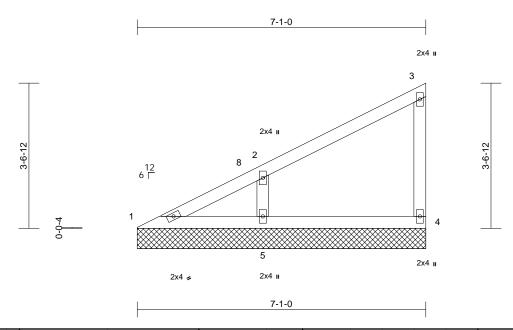
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Job	Truss	Truss Type	Qty	Ply		
6242726	MV02	Valley	1	1	Job Reference (optional)	35407063

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:17 ID:f6Ix_IvFMwGXKC3Or3vCzgycR5J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:28.3

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 1=7-1-0, 4=7-1-0, 5=7-1-0

Max Horiz 1=137 (LC 12)

Max Uplift 4=-51 (LC 12), 5=-121 (LC 12) 1=84 (LC 1), 4=124 (LC 17), 5=322 Max Grav

(LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-242/109, 2-3=-75/31, 3-4=-91/162

BOT CHORD 1-5=-148/112, 4-5=-14/11 2-5=-231/358 WFBS

NOTES

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-8 to 3-1-8, Zone1 3-1-8 to 6-11-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 4 and 121 lb uplift at joint 5.

LOAD CASE(S) Standard



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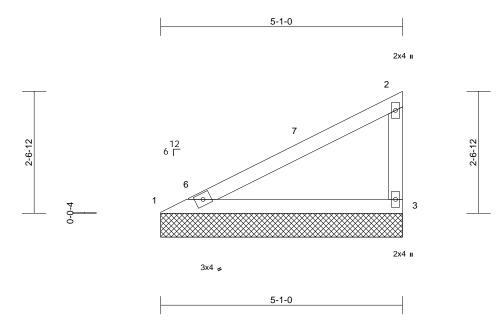
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
6242726	MV03	Valley	1	1	T35407064 Job Reference (optional)

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:17 ID:jkAAZct?ql0p4uw0jeskuFycR5L-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=5-1-0, 3=5-1-0

Max Horiz 1=96 (LC 12)

Max Uplift 1=-29 (LC 12), 3=-74 (LC 12) Max Grav 1=183 (LC 1), 3=190 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-313/192, 2-3=-127/202

BOT CHORD 1-3=-358/307

NOTES

- Wind: ASCE 7-22; Vult=140mph (3-second gust) 1) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 4-11-12 zone; cantilever 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 3 and 29 lb uplift at joint 1.

LOAD CASE(S) Standard



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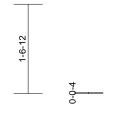
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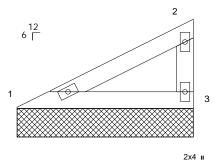
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2x4 🚜

I	3-1-0
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Scale = 1:20.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-1-0, 3=3-1-0

Max Horiz 1=55 (LC 12)

Max Uplift 1=-18 (LC 12), 3=-43 (LC 12) Max Grav 1=109 (LC 1), 3=113 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-163/96, 2-3=-71/108

BOT CHORD 1-3=-192/158

NOTES

- Wind: ASCE 7-22; Vult=140mph (3-second gust) 1) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 3 and 18 lb uplift at joint 1.

LOAD CASE(S) Standard



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October 30,2024



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

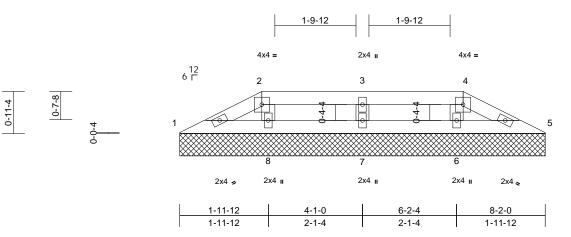


Job	Truss	Truss Type	Qty	Ply	
6242726	V01	Valley	1	1	T35407066 Job Reference (optional)

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 29 14:02:17 ID:38wCUiXpfOMw6RCRX2rxC8ycR5o-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

1-10-0	4-1-0	6-4-0	7-7-1	8-2-0
1-10-0	2-3-0	2-3-0	1-3-1	0-6-15



Scale = 1:25.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

8-2-0 oc purlins.

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

bracing.

REACTIONS (size)

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

Max Horiz 1=-22 (LC 10)

Max Uplift 1=-18 (LC 12), 5=-18 (LC 12),

6=-40 (LC 12), 7=-67 (LC 8), 8=-40

Max Grav 1=59 (LC 23), 5=59 (LC 24), 6=158 (LC 1), 7=179 (LC 23), 8=158 (LC

1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-64/50, 2-3=0/29, 3-4=0/29, 4-5=-64/50

1-8=-28/55, 7-8=-38/57, 6-7=-38/57, **BOT CHORD**

5-6=-28/50

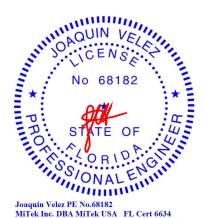
WFBS 2-8=-103/118, 4-6=-103/118, 3-7=-139/182

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 18 lb uplift at joint 5, 40 lb uplift at joint 8, 40 lb uplift at joint 6 and 67 lb uplift at joint 7.

LOAD CASE(S) Standard



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 30,2024

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

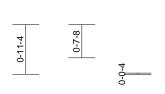


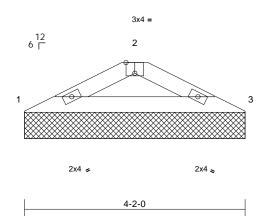
Job	Truss	Truss Type	Qty	Ply		
6242726	V02	Valley	1	1	T35407067 Job Reference (optional)	

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries. Inc. Tue Oct 29 14:02:17 ID:3LLxnGwpgjx9Uboe1rQzeOycR6b-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

1-10-0	2-4-0	3-7-1	4-2-0
1-10-0	0-6-0	1-3-1	0-6-15





Scale = 1:21.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins.

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

bracing.

REACTIONS (size) 1=4-2-0, 3=4-2-0

Max Horiz 1=24 (LC 11)

Max Uplift 1=-43 (LC 12), 3=-43 (LC 12) Max Grav 1=154 (LC 1), 3=154 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-271/421, 2-3=-271/421

TOP CHORD BOT CHORD 1-3=-349/236

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1 and 43 lb uplift at joint 3.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

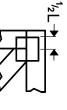
October 30,2024

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

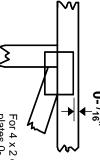


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE

4 × 4

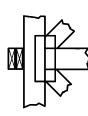
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur Min size shown is for crushing only.

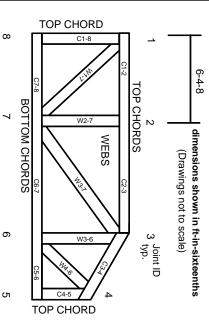
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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



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.

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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.

'n

- 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.

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 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.
- The design does not take into account any dynamic or other loads other than those expressly stated.