Milek

RE: 3698546 -

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer Info: KEN JOHNSON Project Name: CLINTON RES 2 STORY Model: . Subdivision: .

Lot/Block: . Address: 889 NW BLACKBERRY CT, .

City: Lake City

State: FL

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
29 30 31 32 33 34	T32098880 T32098881 T32098882 T32098883 T32098884	C3 C4 C5 C6 C7	11/14/23 11/14/23 11/14/23 11/14/23 11/14/23	86 87 88 89 90	T32098937 T32098938 T32098939 T32098940 T32098941	FG4 FG5 FG6 FG7 FT1	11/14/23 11/14/23 11/14/23 11/14/23 11/14/23
34 35 36	T32098885 T32098886 T32098887	C8 C9 C10 C11	11/14/23 11/14/23 11/14/23	91 92 93 94	T32098942 T32098943 T32098944	FT2 FT3 FT4	11/14/23 11/14/23 11/14/23
35 36 37 38 39 40	T32098888 T32098889 T32098890 T32098891	C12 C13 CJ1	11/14/23 11/14/23 11/14/23 11/14/23	95 96 97	T32098945 T32098946 T32098947 T32098948	FT5 FT6 G1 G2	11/14/23 11/14/23 11/14/23 11/14/23
41 42 43 44	T32098892 T32098893 T32098894 T32098895	CJ1A CJ1D CJ1J CJ1K	11/14/23 11/14/23 11/14/23 11/14/23	98 99 100 101	T32098949 T32098950 T32098951 T32098952	G3 G4 HJ2D HJ3	11/14/23 11/14/23 11/14/23 11/14/23
45 46 47 48	T32098896 T32098897 T32098898 T32098899	CJ1M CJ2 CJ2A CJ2B	11/14/23 11/14/23 11/14/23 11/14/23	102 103 104 105	T32098953 T32098954 T32098955 T32098956	HJ3C HJ4 HJ4A HJ4C	11/14/23 11/14/23 11/14/23 11/14/23
49 50 51 52 53 54	T32098900 T32098901 T32098902 T32098903	CJ2C CJ3A CJ3D CJ3J	11/14/23 11/14/23 11/14/23 11/14/23	106 107 108 109	T32098957 T32098958 T32098959 T32098960	HJ6 HJ7D HJ7K HJ7M	11/14/23 11/14/23 11/14/23 11/14/23
55 56	T32098904 T32098905 T32098906 T32098907	CJ3K CJ3M CJ3MT CJ5D	11/14/23 11/14/23 11/14/23 11/14/23	110 111 112 113	T32098961 T32098962 T32098963 T32098964	HJ7MT J1 J2 J3	11/14/23 11/14/23 11/14/23 11/14/23
57 58 59 60	T32098908 T32098909 T32098910 T32098911	CJ5J CJ5K CJ5M CJ5MT	11/14/23 11/14/23 11/14/23 11/14/23	114 115 116 117	T32098965 T32098966 T32098967 T32098968	J4 M1 M2 M3	11/14/23 11/14/23 11/14/23 11/14/23
61 62 63 64	T32098912 T32098913 T32098914 T32098915	CJ6 CJ8 D1 D2	11/14/23 11/14/23 11/14/23 11/14/23	118 119 120 121	T32098969 T32098970 T32098971 T32098972	M4 M5 M6 M7	11/14/23 11/14/23 11/14/23 11/14/23
65 66 67 68	T32098916 T32098917 T32098918 T32098919	D3 D4 D5 D6	11/14/23 11/14/23 11/14/23 11/14/23	122 123 124 125	T32098973 T32098974 T32098975 T32098976	M8 M9 M10 M11	11/14/23 11/14/23 11/14/23 11/14/23
69 70 71 72	T32098920 T32098921 T32098922 T32098923	D7 D8 E1	11/14/23 11/14/23 11/14/23 11/14/23	126 127 128 129	T32098977 T32098978 T32098979 T32098980	M12 M13 PB1 PB2	11/14/23 11/14/23 11/14/23 11/14/23
73 74 75 76	T32098924 T32098925 T32098926 T32098927	E2 E3 E4 E5 EJ2	11/14/23 11/14/23 11/14/23 11/14/23	130 131 132 133	T32098981 T32098982 T32098983 T32098984	PB3 PB4 PB5 S1	11/14/23 11/14/23 11/14/23 11/14/23
77 78 79 80	T32098928 T32098929 T32098930 T32098931	EJ3 EJ4 EJ4G EJ7D	11/14/23 11/14/23 11/14/23 11/14/23	134 135 136 137	T32098985 T32098986 T32098987 T32098988	\$2 \$3 UA1 UA2	11/14/23 11/14/23 11/14/23
81 82 83	T32098932 T32098933 T32098934	EJ7M EJ7MT FG1	11/14/23 11/14/23 11/14/23	138 139 140	T32098989 T32098990 T32098991	UA3 UB1 UB2	11/14/23 11/14/23 11/14/23 11/14/23
84 85	T32098935 T32098936	FG2 FG3	11/14/23 11/14/23	141 142	T32098992 T32098993	UB3 V3	11/14/23 11/14/23

MiTek

RE: 3698546 -

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer Info: KEN JOHNSON Project Name: CLINTON RES 2 STORY Model: .

Lot/Block: . Address: 889 NW BLACKBERRY CT, .

Subdivision: .

State: FL

City: Lake City

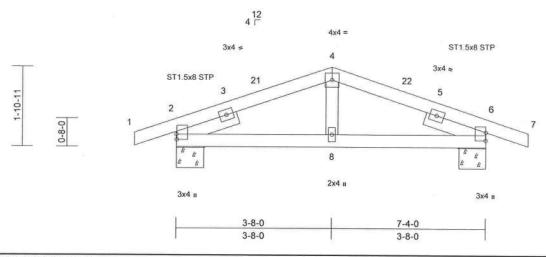
No.	Seal#	Truss Name	Date
143	T32098994	V6	11/14/23
144	T32098995	V7	11/14/23
145	T32098996	V8	11/14/23
146	T32098997	V9A	
147	T32098998	V9B	11/14/23
148	T32098999	V10	

Job	Truss	Truss Type	Qty	Ply		
3698546	A1	Common	4	1	Job Reference (optional)	T32098852

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:01 ID:Isr03YCpD_JK?hGUw?XGRJyK1S7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:27.3

Plate Offsets (X, Y): [2:0-1-8,0-0-1], [6:0-2-5,0-0-1]

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25	CSI TC	0.15	DEFL Vert(LL)	in 0.00	(loc) 8	I/defl >999		PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	8	>999	240	100000000000000000000000000000000000000	
BCLL	0.0*	Rep Stress Incr	YES	WB -	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	8	>999	1 (400)	Weight: 32 lb	FT = 20%

LUMBER

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

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

-- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 2=0-7-11, 6=0-7-11

Max Horiz 2=-41 (LC 11)

Max Uplift 2=-212 (LC 6), 6=-212 (LC 7)

Max Grav 2=353 (LC 1), 6=353 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/19, 2-4=-394/423, 4-6=-394/423,

TOP CHORD 6-7=0/19

BOT CHORD 2-8=-248/339, 6-8=-248/339

WEBS 4-8=0/109

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Exterior(2R) 2-0-0 to 5-4-0, Exterior(2E) 5-4-0 to 8-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 212 lb uplift at joint 2 and 212 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

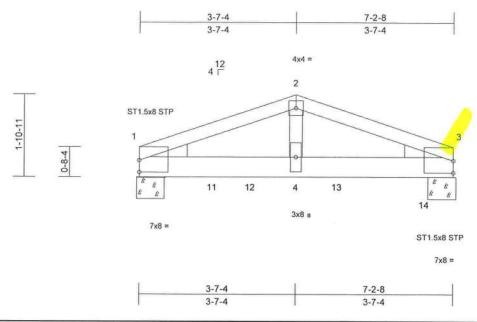
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	A2	Common Girder	2	1	Job Reference (optional)	T32098853

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:03 ID:Ikd06l9_fzz9BhcHx6uP2myK1Lj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.5

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

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	0.26	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	ВС	0.64	Vert(CT)	-0.05	4-7	>999	240		2111100	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.36	Carrier Williams Mar	0.01	3	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	12,020,00	Wind(LL)	0.03	4-10	>999	0.00 TO	Weight: 33 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 WEDGE Left; 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-5 oc purlins

BOT CHORD Rigid ceiling directly applied or 8-1-1 oc

bracing.

REACTIONS (size) 1=0-7-11, 3=0-7-11

Max Horiz 1=-31 (LC 28)

Max Uplift 1=-533 (LC 4), 3=-885 (LC 5) Max Grav 1=1162 (LC 1), 3=1361 (LC 1)

FORCES (lb) - N

(lb) - Maximum Compression/Maximum

Tension

1-2=-1785/863, 2-3=-1787/860

BOT CHORD 1-4=-786/1660, 3-4=-786/1660

WEBS 2-4=-405/933

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 6) All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 533 lb uplift at joint 1 and 885 lb uplift at joint 3.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 460 lb down and 194 lb up at 1-8-12, 460 lb down and 194 lb up at 2-7-4, and 460 lb down and 201 lb up at 4-7-4, and 695 lb down and 566 lb up at 6-7-4 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

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

Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-3=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 11=-460 (B), 12=-460 (B), 13=-460 (B), 14=-567

B)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSS-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	A3	Hip Girder	1	1	Job Reference (optional)	T32098854

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:03 ID:TJkKHtuZ4u3Qw9Ls5nz0dwyK1M4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

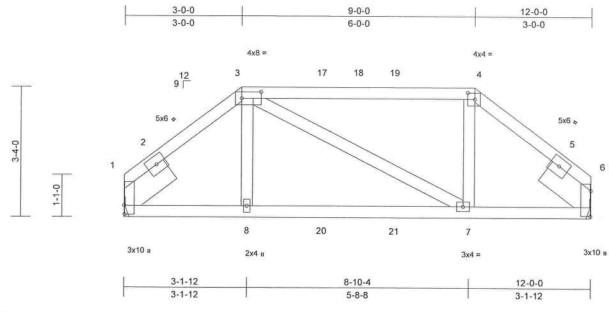


Plate Offsets (X, Y): [1:0-2-12,0-0-2], [3:0-6-0,0-2-0], [4:0-2-4,0-2-0], [6:0-7-14,0-0-2]

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	0.71	Vert(LL)	-0.04	7-8	>999	100000	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC		Vert(CT)	-0.09	7-8	>999	240	Libar Bracia.	244/100
BCLL	0.0*	Rep Stress Incr	NO	WB		Horz(CT)	-0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.11	7-8	>999	7070	Weight: 65 lb	FT = 20%

LUMBER

Scale = 1:29.6

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

WEBS 2x4 SP No.3 SLIDER Left 2x8 SP 2400F 2.0E - 1-6-0, Right 2x8

SP 2400F 2.0E -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 7-4-11 oc

bracing REACTIONS (size) 1= Mechanical, 6= Mechanical

Max Horiz 1=-88 (LC 6)

Max Uplift 1=-557 (LC 8), 6=-557 (LC 9)

Max Grav 1=655 (LC 15), 6=655 (LC 16)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-758/704, 3-4=-584/607, 4-6=-759/704

1-8=-556/603, 7-8=-561/613, 6-7=-499/562

BOT CHORD WEBS

3-8=-115/228, 3-7=-64/65, 4-7=-121/227

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 557 lb uplift at joint 1 and 557 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 109 lb up at 3-0-0, 129 lb down and 107 lb up at 5-0-12, and 129 lb down and 107 lb up at 6-11-4, and 129 lb down and 109 lb up at 9-0-0 on top chord, and 153 lb down and 173 lb up at 3-0-0, 32 lb down and 30 lb up at 5-0-12, and 32 lb down and 30 lb up at 6-11-4, and 153 lb down and 173 lb up at 8-11-4 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: 1-3=-60, 3-4=-60, 4-6=-60, 9-13=-20

Concentrated Loads (lb) Vert: 3=-6 (F), 4=-6 (F), 8=-84 (F), 7=-84 (F), 17=-6

(F), 19=-6 (F), 20=-7 (F), 21=-7 (F)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

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

Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	A4	Hip	1	1	Job Reference (optional)	T32098855

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:03 ID:J03Rb2r7BnS1JafduZz9x_yK1Q?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

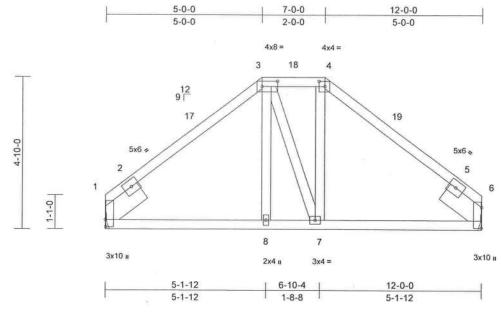


Plate Offsets (X, Y): [1:0-2-12,0-0-2], [3:0-6-0,0-2-0], [4:0-2-4,0-2-0], [6:0-7-14,0-0-2]

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	0.26	Vert(LL)	0.03	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.03	8-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.02	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		· · · · · · · · · · · · · · · · · · ·	100000	255	0000000	100000	Weight: 69 lb	FT = 20%

LUMBER

Scale = 1:36.8

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

SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0, Right 2x8

SP 2400F 2.0E -- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 1= Mechanical, 6= Mechanical

Max Horiz 1=-147 (LC 8)

Max Uplift 1=-191 (LC 10), 6=-191 (LC 11) Max Grav 1=480 (LC 1), 6=480 (LC 1)

(lb) - Maximum Compression/Maximum

TOP CHORD

1-3=-554/321, 3-4=-427/359, 4-6=-554/320 1-8=-232/343, 7-8=-130/345, 6-7=-181/343

BOT CHORD WEBS

3-8=-28/124, 3-7=-169/171, 4-7=-72/170

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 191 lb uplift at joint 1 and 191 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cett 6634 16023 Swingley Ridge Rd, Chesterfield, MO 63017 Date:

November 14,2023

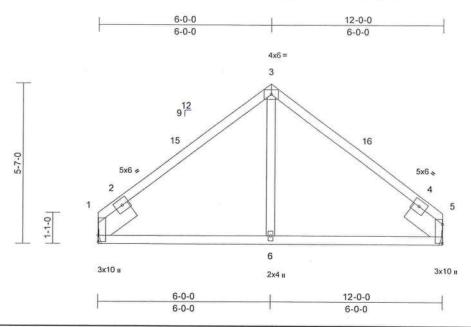
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	A5	Common	2	1	Job Reference (optional)	T32098856

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:04 ID:UtiAL?nMbxhubfCTYlslikyK1Q5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.07	6-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.08	6-9	>999	180	10111111111111111111111111111111111111		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.04	1	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		, ,					Weight: 57 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WERS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0, Right 2x8

SP 2400F 2.0E -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD**

Rigid ceiling directly applied. REACTIONS (size) 1= Mechanical, 5= Mechanical

Max Horiz 1=174 (LC 7)

Max Uplift 1=-184 (LC 10), 5=-184 (LC 11)

Max Grav 1=480 (LC 1), 5=480 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-3=-592/325 3-5=-592/325

TOP CHORD

BOT CHORD 1-6=-275/346, 5-6=-217/346

WEBS 3-6=-25/241

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-0-0 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 1 and 184 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

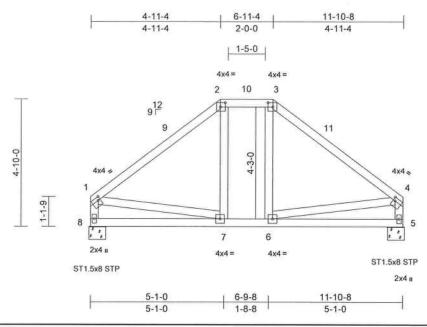
November 14,2023

Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply		
3698546	A6	Hip	1	1	Job Reference (optional)	T32098857

Run: 8.72 S. Oct. 5.2023 Print: 8.720 S.Oct. 5.2023 MiTek Industries. Inc. Mon Nov. 13.14:41:04 ID:hzg0uiAZzmeoL5LX8uPAjUyK1N?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.9

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

CONTROL CONTRO													
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)	0.03	7-8	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.04	7-8	>999	180	No Property		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 68 lb	FT = 20%	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

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

Max Horiz 8=192 (LC 9)

Max Uplift 5=-185 (LC 11), 8=-185 (LC 10)

Max Grav 5=463 (LC 1), 8=463 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

1-2=-530/287, 2-3=-402/336, 3-4=-530/287,

1-8=-476/295, 4-5=-482/288

BOT CHORD 7-8=-256/317, 6-7=-108/354, 5-6=-152/188 WEBS

2-7=-28/124, 3-6=-28/124, 1-7=-161/227,

4-6=-168/232

NOTES

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-8 to 3-2-8, Exterior(2R) 3-2-8 to 8-9-8, Exterior(2E) 8-9-8 to 11-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 8 and 185 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	A7	Hip Girder	1	1	Job Reference (optional)	T32098858

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:04 ID:wQB?Dz4XsJdwOsk_gCGIPoyK1N7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

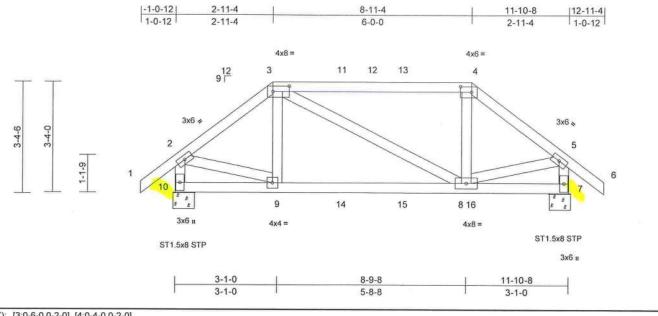


Plate Offsets (X, Y): [3:0-6-0,0-2-0], [4:0-4-0,0-2-0]

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	0.66	Vert(LL)	-0.03	8-9	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.05	8-9		240	20.25 (C.20.25)	210100	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.18	Horz(CT)	-0.01	7	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.04	8-9	>999	240	Weight: 69 lb	FT = 20%	

LUMBER

Scale = 1:34.9

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

BRACING

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

bracing.

REACTIONS 7=0-7-11, 10=0-7-11 (size)

Max Horiz 10=-169 (LC 6)

Max Uplift 7=-606 (LC 9), 10=-603 (LC 8) Max Grav 7=710 (LC 16), 10=708 (LC 15)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/44, 2-3=-684/630, 3-4=-545/575,

4-5=-686/632, 5-6=0/44, 2-10=-694/616,

5-7=-685/609

9-10=-154/180, 8-9=-547/594, 7-8=-24/34 3-9=-27/152, 3-8=-59/63, 4-8=-41/154,

2-9=-558/592, 5-8=-556/585

NOTES

WEBS

FORCES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 603 lb uplift at joint 10 and 606 lb uplift at joint 7.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 109 lb up at 3-0-0, 129 lb down and 107 lb up at 5-0-12, and 129 lb down and 107 lb up at 6-11-4, and 129 lb down and 109 lb up at 9-0-0 on top chord, and 153 lb down and 173 lb up at 3-0-0, 32 lb down and 30 lb up at 5-0-12, and 32 lb down and 30 lb up at 6-11-4, and 153 lb down and 173 lb up at 8-11-4 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: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 5-6=-60, 7-10=-20

Concentrated Loads (lb)

Vert: 3=-6 (B), 4=-6 (B), 9=-84 (B), 8=-7 (B), 11=-6 (B), 13=-6 (B), 14=-7 (B), 15=-7 (B), 16=-78 (B)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FI, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

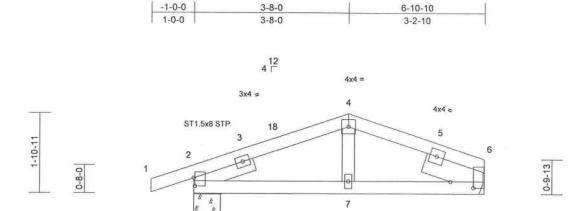
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITE® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	A8	Common	3	1	Job Reference (optional)	T32098859

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:05 ID:5Nmkpb4yF5tOC8LulAyFaUyJcXx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



2x4 II 3x6 II 3-8-0 6-10-10 3-8-0 3-2-10

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

•	STREET, STREET, ST.												
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	0.20	Vert(LL)	0.00	7-10			MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC		Vert(CT)	-0.01	7-10		240	-1700129000	2111100	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	7-10		70.00	Weight: 31 lb	FT = 20%	

LUMBER

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

SLIDER Left 2x4 SP No.3 -- 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

REACTIONS (size) 2=0-7-11, 6= Mechanical

Max Horiz 2=56 (LC 6) Max Uplift 2=-213 (LC 6), 6=-116 (LC 7)

Max Grav 2=356 (LC 1), 6=254 (LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/19, 2-4=-389/425, 4-6=-368/432 2-7=-316/327, 6-7=-316/327

BOT CHORD WEBS 4-7=-10/104

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Exterior(2R) 2-0-0 to 3-8-0, Exterior(2E) 3-8-0 to 6-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1 60
- 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
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 6 and 213 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cett 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

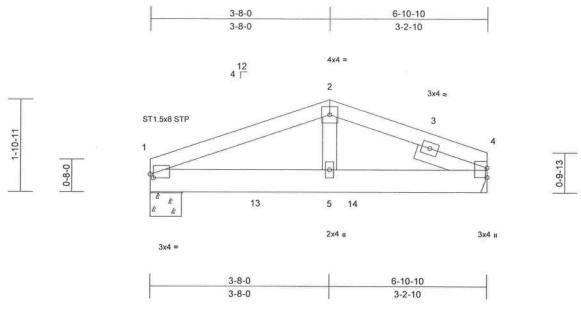
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		7/5: 31:06/system 48.30
3698546	A9	Common Girder	1	1	Job Reference (optional)	T32098860

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:05 ID:arkfWuhZsF9YCG?9n?ecpDyJcHf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.6 Plate Offsets (X. Y): [1:0-0-12.0-0-14]

and one of the first of the												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.01	5-8			MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.02	5-8		240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.02	5-8	>999	2000000	Weight: 31 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WERS 2x4 SP No.3

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

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=0-7-11, 4= Mechanical

Max Horiz 1=37 (LC 27)

Max Uplift 1=-321 (LC 4), 4=-409 (LC 5) Max Grav 1=700 (LC 1), 4=916 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-1137/503, 2-4=-1121/514 **BOT CHORD** 1-5=-453/1043, 4-5=-453/1043

WEBS 2-5=-224/565

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 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 321 lb uplift at joint 1 and 409 lb uplift at joint 4.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 354 Ib down and 162 lb up at 2-1-12, and 354 lb down and 162 lb up at 4-1-12, and 357 lb down and 155 lb up at 6-1-12 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: 1-2=-60, 2-4=-60, 6-9=-20

Concentrated Loads (lb)

Vert: 11=-357 (B), 13=-354 (B), 14=-354 (B)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

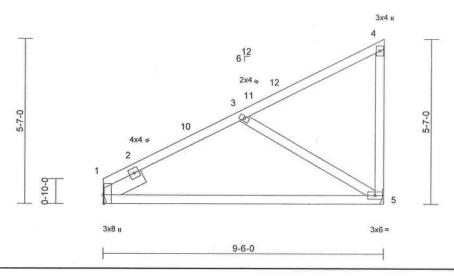


Job	Truss	Truss Type	Qty	Ply		1 1000000000000000000000000000000000000
3698546	A10	Roof Special	1	1	Job Reference (optional)	T32098861

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:05 ID:13UKTHRuf5jxuhnPuxJ_G?yJcKZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:39.1

Plate Offcete (Y V): [1:0.3.8 Edge]

Tale Onsets (A, 1). [1.0-0-0, Luge]													
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	0.62	Vert(LL)	-0.16	5-8	>713			244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.31	5-8	>356	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	1	n/a	n/a	1		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	350016	Wind(LL)	0.04	5-8	>999	7.75.66	Weight: 49 lb	FT = 20%	

LUMBER

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

WEBS 2x4 SP No.3 Left 2x6 SP No.2 -- 1-6-0

SLIDER BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS 1= Mechanical, 5= Mechanical (size)

Max Horiz 1=311 (LC 9)

Max Uplift 1=-146 (LC 10), 5=-185 (LC 10)

Max Grav 1=374 (LC 1), 5=374 (LC 1)

(lb) - Maximum Compression/Maximum Tension

1-3=-814/315, 3-4=-188/148, 4-5=-182/144 TOP CHORD **BOT CHORD** 1-5=-330/542

WEBS 3-5=-502/448

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-1-5, Exterior(2R) 5-1-5 to 9-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- Refer to girder(s) for truss to truss connections

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 1 and 185 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

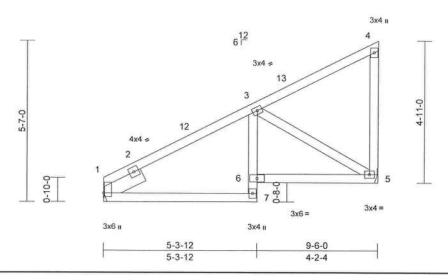


Job	Truss	Truss Type	Qty	Ply		
3698546	A11	Roof Special	2	1	Job Reference (optional)	T32098862

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:05 ID:H8AtCRasW_ZcA7zTOh?14pyJcJ5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:40.1

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

	1.00 . 000 0 01											
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	0.35	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.60	Vert(CT)	-0.03	5-6	>999	240	2.550.5000000	
BCLL	0.0*	Rep Stress Incr	YES	WB		Horz(CT)	0.02	5	n/a	n/a	ı	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.02	7-10	>999		Weight: 51 lb	FT = 20%

LUMBER TOP CHORD BOT CHORD

2x4 SP No.2

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

2x4 SP No.3

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

SLIDER BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied.

REACTIONS 1= Mechanical, 5= Mechanical (size)

Max Horiz 1=285 (LC 7)

Max Uplift 1=-152 (LC 10), 5=-241 (LC 10) Max Grav 1=374 (LC 1), 5=374 (LC 1)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-3=-403/308, 3-4=-153/135, 4-5=-159/114

BOT CHORD 1-7=-333/521, 6-7=-17/104, 3-6=0/183,

5-6=-290/599

WEBS 3-5=-586/484

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-4-4, Exterior(2E) 6-4-4 to 9-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 1 and 241 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Pailip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FI, Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

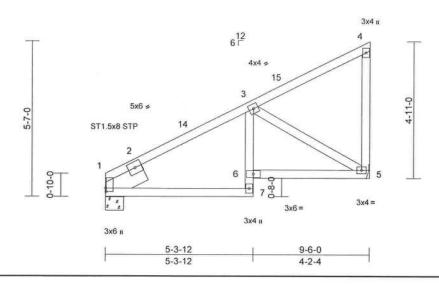


Job	Truss	Truss Type	Qty	Ply		5 W 5 7 TW 5 90 P 5 0 F 5 0 F
3698546	A12	Roof Special	1	1	Job Reference (optional)	T32098863

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:06 ID:aU5WgqgFt7RcWC?pJfdgslyJcJ_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:41.6

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

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	0.35	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.03	5-6	>999	240	111111111111111111111111111111111111111		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	5	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.02	5-6	>999	240	Weight: 52 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 7-3:2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0

BRACING TOP CHORD

CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=0-7-11, 5= Mechanical

Max Horiz 1=285 (LC 7)
Max Uplift 1=-158 (LC 10), 5=-236 (LC 10)

Max Grav 1=387 (LC 1), 5=361 (LC 1)

Max Grav 1=387 (LC 1), 5=361 (LC 1)
(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-396/289, 3-4=-153/135, 4-5=-162/117

BOT CHORD 1-7=-238/491, 6-7=-11/94, 3-6=0/173,

5-6=-271/574

WEBS 3-5=-557/461

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
 Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat.
 II; Exp C; Enclosed; MWFRS (envelope) exterior zone
 and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to
 6-4-4, Exterior(2E) 6-4-4 to 9-4-4 zone; cantilever left
 and right exposed; end vertical left and right exposed; C C for members and forces & MWFRS for reactions
 shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) * 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 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 158 lb uplift at joint 1 and 236 lb uplift at joint 5.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. S\$126 MiTek Inc. DBA MiTek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

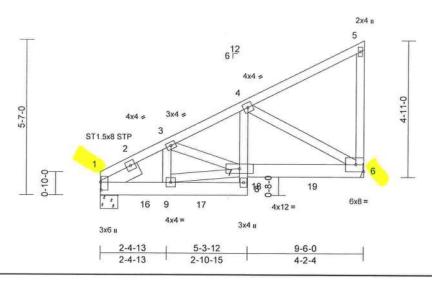


Job	Truss	Truss Type	Qty	Ply		
3698546	A13	Roof Special Girder	1	1	Job Reference (optional)	T32098864

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:06 ID:7Yuox4ASGi8TY6XQmlNxpwyJbkB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:41.6

Plate Offsets	(X, '	Y):	[1:0-3-8	0-0-51	
---------------	-------	-----	----------	--------	--

riate Offsets (X, 1).	[1.0-5-0,0-0-5]											
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.03	6-7			MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC		Vert(CT)	-0.06	6-7		240	11.7937 A 33000	244700
BCLL	0.0*	Rep Stress Incr	NO	WB		Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.05	6-7			Weight: 68 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except* 8-4:2x4 SP No.3

WERS 2x4 SP No 3 SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-9 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-0-6 oc

bracing

REACTIONS (size) 1=0-7-11, 6= Mechanical

Max Horiz 1=283 (LC 5)

Max Uplift 1=-674 (LC 8), 6=-680 (LC 8) Max Grav 1=1229 (LC 1), 6=1067 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-3=-1357/759, 3-4=-1290/739, 4-5=-153/70,

5-6=-101/92

1-9=-756/1154, 8-9=-123/175, 7-8=-118/241,

BOT CHORD

4-7=-547/954, 6-7=-740/1192 WEBS 4-6=-1340/908, 3-9=-75/166, 3-7=-63/53,

7-9=-648/1001

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 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 674 lb uplift at joint 1 and 680 lb uplift at joint 6.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 463 lb down and 275 lb up at 1-7-11, 362 lb down and 225 lb up at 3-7-11, and 362 lb down and 229 lb up at 5-7-11, and 361 lb down and 232 lb up at 7-7-11 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=-60, 8-10=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 16=-463 (B), 17=-362 (B), 18=-362 (B),

19=-361 (B)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DRA MITek USA FL Cerr 6634 16923 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	A14	Roof Special Girder	1	1	Job Reference (optional)	T32098865

3-8-8

1-8-8

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:06 ID:7Yuox4ASGi8TY6XQmlNxpwyJbkB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

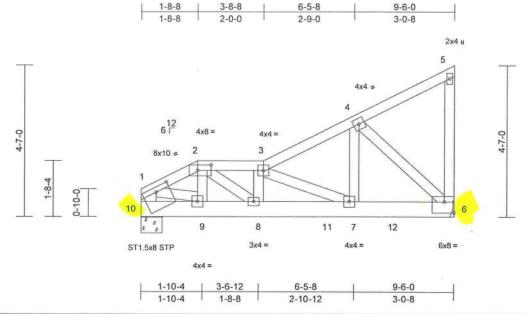


Plate Offsets (X, Y): [1:0-5-0,0-1-12], [2:0-5-0,0-2-0], [6:Edge,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.03	7-8		1.5000000000000000000000000000000000000	MT20	244/190
TCDL		Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.05	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.04	7-8	>999	240	Weight: 64 lb	FT = 20%

LUMBER

Scale = 1:35

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

2x4 SP No.3 *Except* 10-1:2x6 SP No.2 WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals

BOT CHORD Rigid ceiling directly applied or 6-11-10 oc bracing.

REACTIONS (size) 6= Mechanical, 10=0-7-11

Max Horiz 10=251 (LC 5)

Max Uplift 6=-611 (LC 8), 10=-671 (LC 8)

Max Grav 6=1081 (LC 1), 10=1168 (LC 1)

FORCES

TOP CHORD

BOT CHORD

(lb) - Maximum Compression/Maximum Tension

1-2=-1442/823, 2-3=-1950/1059,

3-4=-1097/557, 4-5=-120/62, 5-6=-70/63,

1-10=-1059/619

9-10=-333/232, 8-9=-834/1265,

7-8=-1114/1962, 6-7=-516/967

WEBS 2-9=-101/184, 2-8=-369/838, 3-8=-140/117,

1-9=-615/1091, 4-6=-1304/771,

4-7=-586/1152, 3-7=-1103/669

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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 611 lb uplift at joint 6 and 671 lb uplift at joint 10.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb down and 54 lb up at 1-8-8 on top chord, and 463 lb down and 275 lb up at 1-7-11, 96 lb down and 94 lb up at 1-8-8, 362 lb down and 189 lb up at 3-7-11, and 362 lb down and 190 lb up at 5-7-11, and 359 lb down and 185 lb up at 7-7-11 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, 1) Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 9=-436 (F=-463, B=27), 8=-362 (F), 11=-362 (F), 12=-359 (F)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.55126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



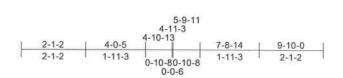
Job	Truss	Truss Type	Qty	Ply		
3698546	A15	Roof Special Girder	1	1	Job Reference (optional)	T32098866

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:07 ID:7Yuox4ASGi8TY6XQmlNxpwyJbkB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

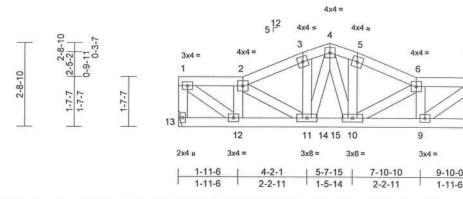
3x4 =

2x4 II

Page: 1



3.97 12



Scale = 1:37.6

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25	CSI	0.11	DEFL Vert(LL)	in	(loc)	I/defl	777	PLATES	GRIP
TCDL	10.0	Lumber DOL	1.25	BC		Vert(CT)	-0.01 -0.02	10-11 10-11	>999 >999	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.02	10	>999	240	Weight: 61 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

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

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

bracing.

REACTIONS (size) 8= Mechanical, 13= Mechanical

Max Horiz 13=-67 (LC 4)

Max Uplift 8=-265 (LC 9), 13=-265 (LC 8) Max Grav 8=483 (LC 1), 13=483 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-13=-451/263, 1-2=-544/284, 2-3=-670/388,

3-4=-641/394, 4-5=-641/394, 5-6=-670/388, 6-7=-544/284, 7-8=-451/263

BOT CHORD 12-13=-54/47, 11-12=-313/585.

10-11=-349/569, 9-10=-338/585, 8-9=-29/23

WEBS 1-12=-355/649, 2-12=-372/247, 2-11=-127/126, 3-11=-35/65, 4-11=-49/119,

4-10=-50/119, 5-10=-35/65, 6-10=-127/126,

6-9=-372/247, 7-9=-355/649

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 265 lb uplift at joint 13 and 265 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 114 lb up at 4-0-5, and 167 lb down and 238 lb up at 4-11-0, and 59 lb down and 114 lb up at 5-9-11 on top chord, and 8 lb down and 19 lb up at 4-0-5, 46 lb down at 4-8-10, and 46 lb down at 5-1-6, and 8 lb down and 19 lb up at 5-9-11 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: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 5-6=-60,

6-7=-60. 8-13=-20 Concentrated Loads (lb)

Vert: 4=-121 (F), 11=-8 (F), 10=-8 (F), 14=-33 (F), 15=-33 (F)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

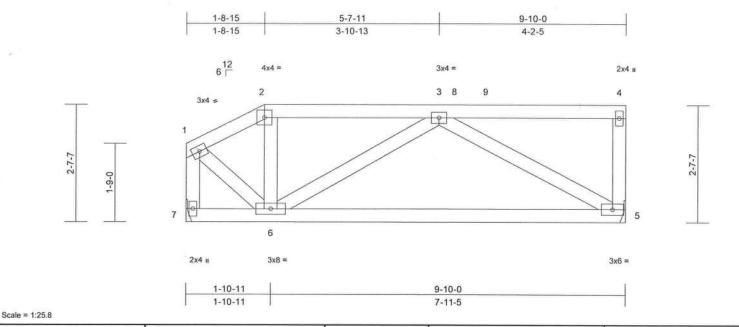
Design valid for use only vitis in the connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	A16	Half Hip	1	1	Job Reference (optional)	T32098867

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:07 ID:eMKQjk9qVO0cwzzEC1riGiyJbkC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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	0.49	Vert(LL)	-0.08	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.17	5-6	>685	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	5-6	>999	240	Weight: 53 lb	FT = 20%

LUMBER

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

2x4 SP No.3

BRACING Structural wood sheathing directly applied, TOP CHORD

except end verticals. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 7= Mechanical

Max Horiz 7=136 (LC 7)

Max Uplift 5=-215 (LC 7), 7=-179 (LC 10)

Max Grav 5=382 (LC 1), 7=382 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-2=-392/216, 2-3=-350/229, 3-4=-73/82,

4-5=-135/139, 1-7=-474/293 6-7=-135/167, 5-6=-304/541

BOT CHORD WEBS

2-6=-37/125, 3-6=-136/239, 3-5=-520/405,

1-6=-239/403

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-11-12 to 3-6-15, Exterior(2R) 3-6-15 to 7-9-13, Interior (1) 7-9-13 to 8-6-4, Exterior(2E) 8-6-4 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 215 lb uplift at joint 5 and 179 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

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

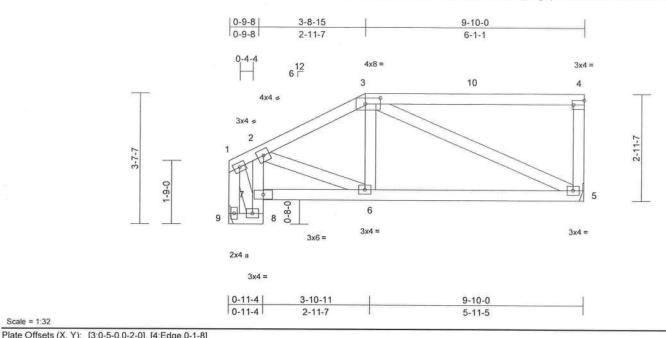
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	A17	Half Hip	1	1	Job Reference (optional)	T32098868

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:07 ID:eMKQjk9qVO0cwzzEC1riGiyJbkC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.03	5-6	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	вс	0.36	Vert(CT)	-0.06	5-6	>999	240	UNUITA .	2111100
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	6-7	>999	240	Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 8-2:2x4 SP No.3 BOT CHORD

2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 9= Mechanical

Max Horiz 9=181 (LC 7)

Max Uplift 5=-219 (LC 7), 9=-180 (LC 10) Max Grav 5=382 (LC 24), 9=382 (LC 1)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-253/118, 2-3=-523/367, 3-4=-70/132,

4-5=-219/231, 1-9=-494/310

BOT CHORD 8-9=-161/235, 7-8=-209/227, 2-7=-194/233,

6-7=-264/460, 5-6=-265/572

WEBS 2-6=-138/219, 3-6=0/162, 3-5=-504/292,

1-8=-225/269

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 5 and 180 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-11-12 to 4-11-12, Exterior(2R) 4-11-12 to 8-6-4, Exterior(2E) 8-6-4 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J, O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

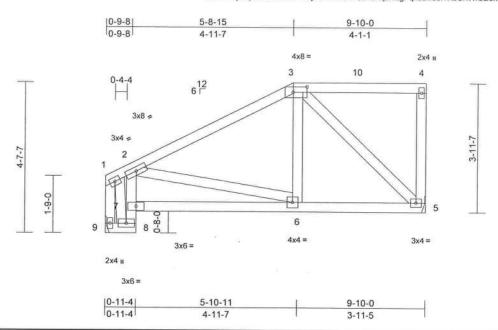
Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US com

Job	Truss	Truss Type	Qty	Ply		
3698546	A18	Half Hip		1		T32098869
0000010	7,10	rian riip		100	Job Reference (optional)	

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:08 ID:eMKQjk9qVO0cwzzEC1riGiyJbkC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.4 Plate Offsets (X V): [3:0-5-0.0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	1./d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.02	6-7	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC		Vert(CT)	-0.04	6-7	>999	240		214/100
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.02	6-7	>999	240	Weight: 61 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 8-2:2x4 SP No.3

2x4 SP No.3 WEBS BRACING

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 9= Mechanical

Max Horiz 9=243 (LC 7)

Max Uplift 5=-222 (LC 7), 9=-175 (LC 10)

Max Grav 5=381 (LC 1), 9=379 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-247/93, 2-3=-387/298, 3-4=-75/124,

4-5=-122/140, 1-9=-541/329

8-9=-226/324, 7-8=-270/314, 2-7=-222/378,

6-7=-381/673, 5-6=-206/453

2-6=-264/179, 3-6=0/204, 3-5=-516/322,

1-8=-376/370

WEBS NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-11-12 to 4-11-12, Exterior(2R) 4-11-12 to 8-6-4, Exterior(2E) 8-6-4 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1 60
- 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 222 lb uplift at joint 5 and 175 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. S\$126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

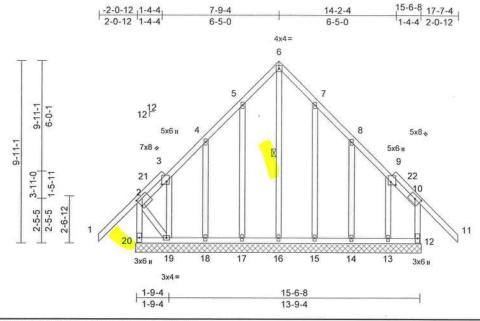
MARNING - Verify design parameters and READ ROTES ON THIS AND INCLUDED MITER REFERENCE PAGE BILLYATS TOW. INCREMENTATION, INCR



Job	Truss	Truss Type	Qty	Ply		
3698546	B1	Common Supported Gable	1	1	Job Reference (optional)	T32098870

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:08 ID:BX1ADdKXVVFTCbDW2JnJfUyJiF?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.9

Plate Offsets (X, Y): [2:0-0-4,0-5-0], [3:0-2-0,0-3-4], [9:0-2-0,0-3-4], [10:0-3-12,0-2-4]

		Ta a		T.			_					
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	0.93	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	n/a		n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	5888		5000000	1870			Weight: 142 lb	FT = 20%

LUMBER

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

OTHERS 2x4 SP No.3

BRACING

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

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

bracing.

WERS 1 Row at midpt 6-16

REACTIONS (size) 12=15-8-0, 13=15-8-0, 14=15-8-0,

15=15-8-0, 16=15-8-0, 17=15-8-0, 18=15-8-0, 19=15-8-0, 20=15-8-0

Max Horiz 20=492 (LC 9)

Max Uplift 12=-222 (LC 11), 13=-134 (LC 11), 14=-225 (LC 11), 15=-184 (LC 11), 16=-291 (LC 9), 17=-193 (LC 10),

18=-218 (LC 10), 19=-517 (LC 7),

20=-782 (LC 6)

12=274 (LC 19), 13=153 (LC 9), Max Grav 14=211 (LC 19), 15=207 (LC 19),

16=739 (LC 11), 17=226 (LC 18), 18=184 (LC 18), 19=634 (LC 8),

20=787 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-20=-763/912, 1-2=0/88, 2-3=-426/578, 3-4=-393/550, 4-5=-370/796, 5-6=-308/964, 6-7=-263/964, 7-8=-206/796, 8-9=-135/550, TOP CHORD

9-10=-123/546, 10-11=0/94, 10-12=-287/782

BOT CHORD 19-20=-475/443, 18-19=-86/197,

17-18=-86/197, 16-17=-86/197, 15-16=-86/197, 14-15=-86/197,

13-14=-86/197, 12-13=-86/197

WEBS

6-16=-1198/331, 5-17=-207/221, 4-18=-203/340, 3-19=-202/92, 7-15=-208/221, 8-14=-201/340,

9-13=-215/108, 2-19=-633/631

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 4-10-0, Corner(3R) 4-10-0 to 10-10-0, Exterior(2N) 10-10-0 to 14-8-0, Corner(3E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 782 lb uplift at joint 20, 222 lb uplift at joint 12, 291 lb uplift at joint 16, 193 lb uplift at joint 17, 218 lb uplift at joint 18, 517 lb uplift at joint 19, 184 lb uplift at joint 15, 225 lb uplift at joint 14 and 134 lb uplift at joint 13.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	B2	Common	5	1	Job Reference (optional)	T32098871

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:08 ID:010aKIRc4SjZcag?uwwfrgyJiDa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

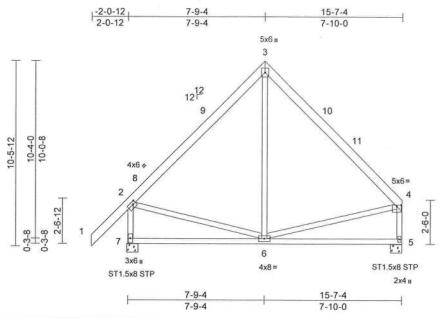


Plate Offsets (X, Y): [2:0-2-0,0-1-12], [4:0-3-0,0-1-0]

(1, 1)	and otherwise the project of the project of											
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	0.77	Vert(LL)	-0.07	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.15	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB		Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	-0.01	5-6	>999	ALCOHOL:	Weight: 126 lb	FT = 20%

LUMBER

Scale = 1:65.3

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

BRACING

TOP CHORD

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

BOT CHORD Rigid ceiling directly applied or 8-4-12 oc

bracing.

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

Max Horiz 7=477 (LC 7)

Max Uplift 5=-244 (LC 10), 7=-295 (LC 10)

Max Grav 5=603 (LC 1), 7=755 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=0/94, 2-3=-622/317, 3-4=-616/293,

2-7=-731/505, 4-5=-670/312

6-7=-485/480, 5-6=-115/144 **BOT CHORD**

WEBS

TOP CHORD

3-6=-2/263, 2-6=-166/382, 4-6=-163/335

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 12-6-4, Exterior(2E) 12-6-4 to 15-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 295 lb uplift at joint 7 and 244 lb uplift at joint 5.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	B3	Roof Special	3	1		T32098872
0000010	150	11001 Opecial	3	1.	Job Reference (optional)	

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:09 ID:CmLl2OoVTAyXgxpj?9R9wVyJiBp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

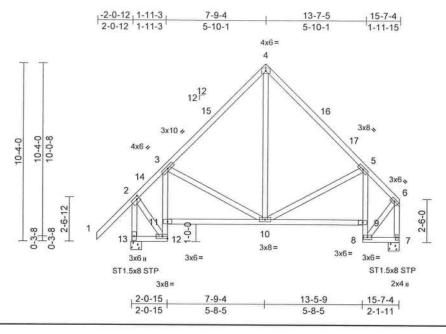


Plate Offsets (X, Y): [2:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	1./d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.04	9-10			MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC		Vert(CT)	-0.04	9-10	>999	240		244/190
BCLL	0.0*	Rep Stress Incr	YES	WB		Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.05	10-11	>999	240	Weight: 119 lb	FT = 20%

LUMBER

Scale = 1:67.1

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 12-3,5-8:2x4 SP No.3

2x4 SP No.3 WEBS BRACING

TOP CHORD

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

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

REACTIONS (size) 7=0-7-11, 13=0-7-11

Max Horiz 13=484 (LC 7)

7=-245 (LC 10), 13=-294 (LC 10) Max Uplift Max Grav 7=603 (LC 1), 13=755 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/94, 2-3=-488/259, 3-4=-661/344,

4-5=-661/346, 5-6=-465/244, 2-13=-869/480,

6-7=-796/298

BOT CHORD 12-13=-443/378, 11-12=-349/105,

3-11=-302/127, 10-11=-469/619,

9-10=-210/523, 8-9=-367/155, 5-9=-331/182, 7-8=-54/81

4-10=-176/382, 5-10=-254/358,

3-10=-302/372, 2-12=-116/558, 6-8=-215/591

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 12-6-4, Exterior(2E) 12-6-4 to 15-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 294 lb uplift at joint 13 and 245 lb uplift at joint 7.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	B4	Roof Special	1	1	Job Reference (optional)	T32098873

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:09 ID:iDnZHXpuEDRXSGrS3LkoSQyJcB2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

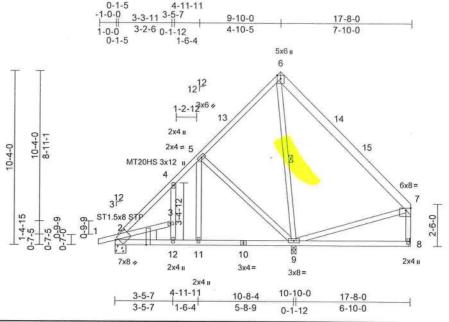


Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-9-8,0-1-1], [7:Edge,0-1-8]

	Lancon or managed		9-11										
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	0.69	Vert(LL)	-0.05	8-9	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	вс		Vert(CT)	-0.10		>791		MT20HS	187/143	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.00	9	n/a	n/a		1011110	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	2-12	>999	240	Weight: 138 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-7:2x6 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.3 *Except* 8-7:2x4 SP No.2 WEBS

WEDGE Left: 2x8 SP 2400F 2 0F

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.

WEBS 1 Row at midpt 6-9

REACTIONS (size) 2=0-7-11, 8= Mechanical, 9=0-3-8

Max Horiz 2=434 (LC 9)

Max Uplift 2=-199 (LC 11), 8=-125 (LC 11),

9=-293 (LC 10)

Max Grav 2=529 (LC 1), 8=327 (LC 25),

9=633 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/19, 2-3=-9/10, 2-4=-514/277,

4-5=-413/332, 5-6=-270/336, 6-7=-225/184,

7-8=-272/264

BOT CHORD 2-12=-240/420, 11-12=-243/416,

9-11=-243/416, 8-9=-133/140

5-11=-18/190, 5-9=-370/381, 6-9=-291/105,

7-9=-223/437, 3-12=-71/93, 3-4=-57/79

NOTES

WERS

TOP CHORD

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 0-3-9, Interior (1) 0-3-9 to 6-10-0, Exterior(2R) 6-10-0 to 12-10-0, Interior (1) 12-10-0 to 14-6-4, Exterior(2E) 14-6-4 to 17-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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 199 lb uplift at joint 2, 125 lb uplift at joint 8 and 293 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16623 Swingley Ridge Rd. Chesterfield, MO 63917

November 14,2023

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

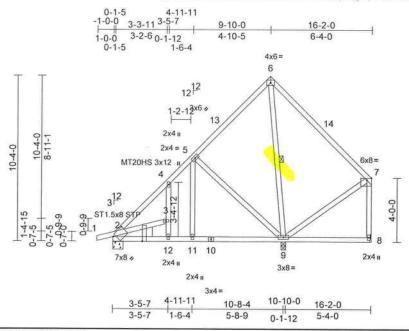
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a fruss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	B5	Roof Special	1	1	Job Reference (optional)	T32098874

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:09 ID:dRhvAiBro2ZYNgbiDCKN09yJcD8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-9-8,0-1-1], [7:0-3-8,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	0.84	Vert(LL)	-0.02	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC		Vert(CT)	-0.03	8-9		100000	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	-0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	2-12			Weight: 125 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-7:2x4 SP No.1

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

WEDGE Left: 2x8 SP 2400F 2.0E

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. WERS

1 Row at midpt 6-9 REACTIONS

(size) 2=0-7-11, 8= Mechanical, 9=0-3-8 Max Horiz 2=467 (LC 9)

Max Uplift 2=-167 (LC 10), 8=-63 (LC 11), 9=-331 (LC 10)

2=510 (LC 1), 8=245 (LC 25),

9=604 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/19, 2-3=-10/10, 2-4=-492/254

4-5=-393/308, 5-6=-241/311, 6-7=-159/207,

7-8=-203/147

BOT CHORD 2-12=-268/409, 11-12=-271/405,

9-11=-271/405, 8-9=-100/120

5-11=-11/207, 5-9=-379/401, 6-9=-317/102, 7-9=-202/415, 3-12=-77/87, 3-4=-62/72

WEBS

NOTES

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 0-3-9, Interior (1) 0-3-9 to 6-10-0, Exterior(2R) 6-10-0 to 13-0-4, Exterior(2E) 13-0-4 to 16-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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 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 167 lb uplift at joint 2, 63 lb uplift at joint 8 and 331 lb uplift at joint 9.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.38126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

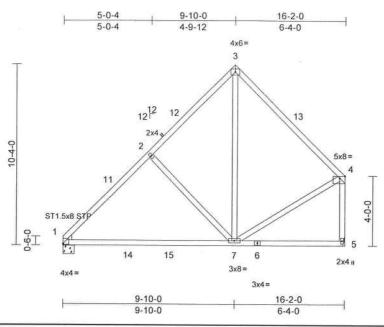
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	B6	Common	1	1	Job Reference (optional)	T32098875

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:10 ID:gF_s2aYbHlu3XX2WcatyN_yJcDz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66

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

	[agele e el	i (no o o,zagoj										
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	0.63	Vert(LL)	-0.29	7-10	>668	To the last	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC		Vert(CT)	-0.50	7-10	>387	240	10,120	244/100
BCLL	0.0*	Rep Stress Incr	YES	WB		Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.11	7-10	>999	100.00	Weight: 99 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP No.2 *Except* 3-4:2x4 SP No.1

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=0-7-11, 5= Mechanical

Max Horiz 1=461 (LC 9)

Max Uplift 1=-222 (LC 10), 5=-290 (LC 10) Max Grav 1=736 (LC 19), 5=767 (LC 18)

Max Grav 1=736 (LC 19), 5=767 (LC 18) (lb) - Maximum Compression/Maximum

FORCES (lb) - M

Tension

TOP CHORD 1-2=-854/37

1-2=-854/371, 2-3=-710/405, 3-4=-690/354,

4-5=-857/323 BOT CHORD 1-7=-366/754

1-7=-366/754, 5-7=-100/125

WEBS 2-7=-422/427, 3-7=-100/120

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-10-0, Exterior(2R) 6-10-0 to 13-0-4, Exterior(2E) 13-0-4 to 16-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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 222 lb uplift at joint 1 and 290 lb uplift at joint 5.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regon PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Ckesterfield, MO 63017 Date:

November 14,2023

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

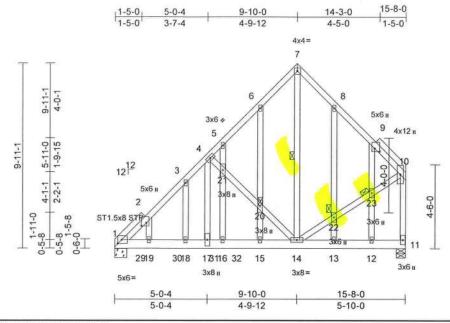
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSS-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	B7	Common Girder	1	1	Job Reference (optional)	T32098876

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:10 ID:JVhSJ82mqUUAHliHGTh4WZyJctx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.9

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

	100 100 100 100 100 100 100 100 100 100	5 550,5	- A - A - A - A - A - A - A - A - A - A									
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)	-0.05	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.09	15-16	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.07	15-16	>999	240	Weight: 163 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins, except end verticals.

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

WERS 1 Row at midpt 7-14 **JOINTS** 1 Brace at Jt(s): 20,

22 23

REACTIONS (size) 1=0-7-11, 11=0-6-0

Max Horiz 1=446 (LC 7)

Max Uplift 1=-773 (LC 8), 11=-528 (LC 8) Max Grav 1=1721 (LC 1), 11=1124 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=-1952/807, 2-3=-1886/848, 3-4=-1841/935, 4-5=-1012/513,

5-6=-851/500, 6-7=-810/569, 7-8=-815/602,

8-9=-827/515, 9-10=-852/456,

10-11=-1036/508

BOT CHORD 1-19=-764/1364, 18-19=-764/1364 17-18=-764/1364, 16-17=-764/1364,

15-16=-764/1364, 14-15=-764/1364,

13-14=-93/60, 12-13=-93/60, 11-12=-93/60

4-17=-646/946, 4-21=-1016/733,

20-21=-1114/791, 14-20=-1156/820,

7-14=-701/916, 14-22=-357/742,

22-23=-340/716, 10-23=-342/730,

6-20=-103/237, 15-20=-67/238, 5-21=-102/200, 16-21=-161/342,

3-18=-84/146, 2-19=-76/210, 8-22=-158/212,

13-22=-179/211, 9-23=-86/171,

12-23=-55/155

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 773 lb uplift at joint 1 and 528 lb uplift at joint 11.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 234 lb down and 126 lb up at 1-4-12, 234 lb down and 126 lb up at 3-4-12, and 234 lb down and 126 lb up at 5-4-12, and 896 lb down and 419 lb up at 6-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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: 1-7=-60, 7-10=-60, 11-24=-20 Concentrated Loads (lb) Vert: 29=-234 (B), 30=-234 (B), 31=-234 (B),

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.38126 MiTek Inc. DBA MiTek USA FL Cert 66.34 16023 Swingley Ridge Rd. Chesterfield, MO 6.3017 Date:

November 14,2023

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

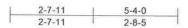
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

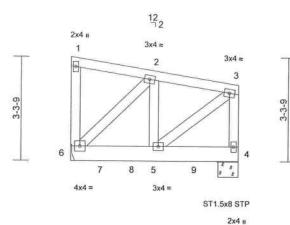


Job	Truss	Truss Type	Qty	Ply		
3698546	BG1	Roof Special Girder	1	2		T32098877
		Trees opedial estati			Job Reference (optional)	

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:11 ID:P2U_glKgmGEuZajrMsKbdRyJfRY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





2-7-11 5-4-0 2-7-11

2-8-5

Scale = 1:36.6

Loading TCLL (roof) TCDL BCLL	(psf) 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 NO	CSI TC BC WB	0.07 0.17 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 5-6 5-6	l/defl >999 >999 n/a	0.0000000000000000000000000000000000000	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.00	5-6			Weight: 78 lh	FT = 20%

LUMBER

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

BRACING TOP CHORD

BOT CHORD

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

bracing

REACTIONS (size) 4=0-7-11, 6= Mechanical

Max Horiz 6=-168 (LC 4)

Max Uplift 4=-420 (LC 5), 6=-437 (LC 9) Max Grav 4=896 (LC 1), 6=982 (LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-6=-62/46, 1-2=-69/39, 2-3=-638/287,

3-4=-669/339

5-6=-321/621, 4-5=-43/33

BOT CHORD

WEBS 3-5=-380/798, 2-6=-875/406, 2-5=-247/587

NOTES

FORCES

- 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 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- 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 4 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 420 lb uplift at joint 4 and 437 lb uplift at joint 6.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 309 lb down and 133 lb up at 0-11-4, and 583 lb down and 254 lb up at 1-11-4, and 583 lb down and 254 lb up at 3-11-4 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: 1-3=-60, 4-6=-20 Concentrated Loads (lb)

Vert: 7=-309 (F), 8=-583 (F), 9=-583 (F)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58326 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Rblge Rd. Chesterfield, MO 63017

November 14,2023

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

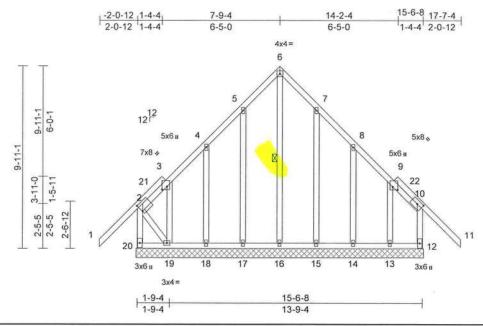
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		010 M 400360 MH 400349 U 444 MA
3698546	C1	Common Supported Gable	1	1	Job Reference (optional)	T32098878

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:11 ID:xDrABDeGGMBP39Uj67iz?1yJhca-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.9

Plate Offsets (X, Y): [2:0-0-4,0-5-0], [3:0-2-0,0-3-4], [9:0-2-0,0-3-4], [10:0-3-12,0-2-4]

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	0.93	Vert(LL)	n/a	•	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	n/a	-	n/a	999	I PRANCED	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		, ,					Weight: 142 lb	FT = 20%

LUMBER

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

OTHERS 2x4 SP No.3

BRACING

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

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

WEBS 1 Row at midpt

REACTIONS (size) 12=15-8-0, 13=15-8-0, 14=15-8-0,

6-16

15=15-8-0, 16=15-8-0, 17=15-8-0, 18=15-8-0, 19=15-8-0, 20=15-8-0

Max Horiz 20=492 (LC 9)

Max Uplift 12=-222 (LC 11), 13=-134 (LC 11),

14=-225 (LC 11), 15=-184 (LC 11), 16=-291 (LC 9), 17=-193 (LC 10), 18=-218 (LC 10), 19=-517 (LC 7),

20=-782 (LC 6)

Max Grav 12=274 (LC 19), 13=153 (LC 9),

14=211 (LC 19), 15=207 (LC 19), 16=739 (LC 11), 17=226 (LC 18),

18=184 (LC 18), 19=634 (LC 8), 20=787 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-20=-763/912, 1-2=0/88, 2-3=-426/578,

3-4=-393/550, 4-5=-370/796, 5-6=-308/964, 6-7=-263/964, 7-8=-206/796, 8-9=-135/550,

9-10=-123/546, 10-11=0/94, 10-12=-287/782

19-20=-475/443, 18-19=-86/197, 17-18=-86/197, 16-17=-86/197, 15-16=-86/197, 14-15=-86/197, BOT CHORD

13-14=-86/197, 12-13=-86/197

WEBS

6-16=-1198/331 5-17=-207/221 4-18=-203/340, 3-19=-202/92, 7-15=-208/221, 8-14=-201/340,

9-13=-215/108, 2-19=-633/631

NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 4-10-0, Corner(3R) 4-10-0 to 10-10-0, Exterior(2N) 10-10-0 to 14-8-0, Corner(3E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

Gable studs spaced at 2-0-0 oc.

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members

11) All bearings are assumed to be SP No.2.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 782 lb uplift at joint 20, 222 lb uplift at joint 12, 291 lb uplift at joint 16, 193 lb uplift at joint 17, 218 lb uplift at joint 18, 517 lb uplift at joint 19, 184 lb uplift at joint 15, 225 lb uplift at joint 14 and 134 lb uplift at joint 13.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE. No.58126 Mirck Inc. DBA Mirck U.SA FL. Cett 6634 16013 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

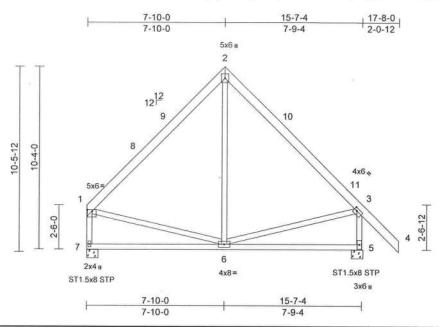
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	C2	Common	1	1	Job Reference (optional)	T32098879

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:11 ID:XBDuhp0jyt50HwMgQ8IFIZyJhc5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.3

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

	1000 0000	(
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.07	6-7		177777	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.14	6-7			4 10 0 TO 00 TO 00	2000 11 10 10 11 10 10 10 10 10 10 10 10	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	5	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	-0.01	6-7			Weight: 126 lb	FT = 20%	

LUMBER

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

WEBS 2x4 SP No.3 *Except* 7-1,5-3:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 8-9-2 oc

bracing.

REACTIONS (size)

TOP CHORD

5=0-7-11, 7=0-7-11

Max Horiz 7=-463 (LC 6)

Max Uplift 5=-294 (LC 11), 7=-245 (LC 11)

Max Grav 5=755 (LC 1), 7=603 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-616/294, 2-3=-621/320, 3-4=0/94, 1-7=-647/343, 3-5=-755/474

BOT CHORD 6-7=-427/507, 5-6=-98/179 WEBS 2-6=-7/264, 1-6=-153/327, 3-6=-172/384

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 14-8-0, Exterior(2E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 245 lb uplift at joint 7 and 294 lb uplift at joint 5.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 METek Inc. DRA METek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

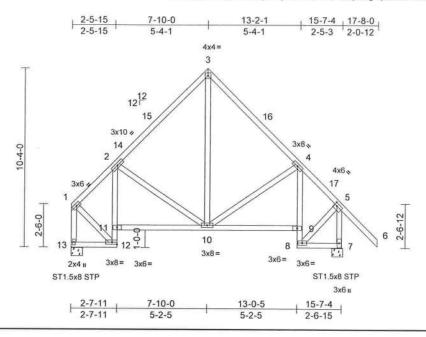
November 14,2023

🔼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
	03	Roof Special	5	1	Job Reference (optional)	T32098880

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:12 ID:UwznyZ3HTc2gDHVO0vpenwyJhak-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:66.7

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

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25	CSI TC	0.65	DEFL Vert(LL)	in	(loc) 10-11	l/defl >999	L/d		GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(CT)		10-11	>999	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.15	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						74.200405	Weight: 120 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 12-2,4-8:2x4 SP No.3

WEBS 2x4 SP No.3 BRACING

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

Rigid ceiling directly applied or 2-2-0 oc bracing

REACTIONS (size) 7=0-7-11, 13=0-7-11

Max Horiz 13=-469 (LC 8)

Max Uplift 7=-293 (LC 11), 13=-246 (LC 11) Max Grav 7=755 (LC 1), 13=603 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-581/200, 2-3=-662/328, 3-4=-662/332,

4-5=-494/328, 5-6=0/94, 1-13=-770/285,

5-7=-867/432

BOT CHORD 12-13=-425/441, 11-12=-251/214, 2-11=-204/222, 10-11=-367/669,

9-10=-34/530, 8-9=-325/74, 4-9=-302/97,

7-8=-73/152

3-10=-199/429, 4-10=-223/321,

2-10=-293/342, 1-12=-226/457, 5-8=-90/577

WEBS NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 14-8-0, Exterior(2E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 246 lb uplift at joint 13 and 293 lb uplift at joint 7.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

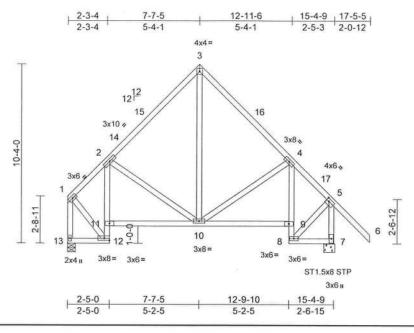
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev, 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	C4	Roof Special	3	1	Job Reference (optional)	T32098881

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:12 ID:UT1d4BUcT3LrlW6w?2Qd95yJhaC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:66.7 Plate Offsets (X-Y): [5:0-2-0.0-1-12]

riate Offsets (X, T).	[3.0-2-0,0-1-12	-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	0.66	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.09	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB		Horz(CT)	0.14	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 120 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 12-2,4-8:2x4 SP No.3

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 13=-488 (LC 8)

Max Uplift 7=-290 (LC 11), 13=-245 (LC 11)

Max Grav 7=746 (LC 1), 13=594 (LC 1)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum Tension

1-2=-538/189, 2-3=-651/322, 3-4=-651/323,

4-5=-487/326, 5-6=0/94, 1-13=-768/277,

5-7=-858/429

BOT CHORD 12-13=-430/450, 11-12=-289/252,

2-11=-240/259, 10-11=-374/649,

9-10=-33/525, 8-9=-322/70, 4-9=-298/93,

7-8=-73/152

WEBS 3-10=-186/418, 4-10=-225/322, 2-10=-287/319, 1-12=-244/467, 5-8=-85/571

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior (1) 3-4-7 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 14-8-0, Exterior(2E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 245 lb uplift at joint 13 and 290 lb uplift at joint 7.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regna PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd, Chesterfield, MO 63017 Date:

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



		Truss Type	Qty	Ply		
3698546 C5	5	Roof Special	1	1	Job Reference (optional)	T32098882

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries. Inc. Mon Nov 13 14:41:12 ID:1iC5_9JygmUHXtk8vz9GJ8yJhXq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

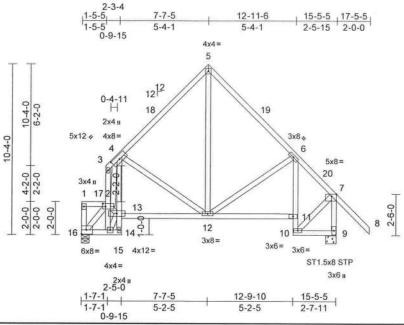


Plate Offsets (X, Y): [2:0-2-0,0-2-4], [4:0-6-0,0-2-12], [7:0-3-8,Edge]

3/3/34		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		No.								
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	0.71	Vert(LL)	-0.03	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)		12-13		240	10.123	210700
BCLL	0.0*	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	110000	Wind(LL)		12-13			Weight: 128 lb	FT = 20%

LUMBER

Scale = 1:69.9

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

BRACING

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

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

REACTIONS (size) 9=0-7-11, 16=0-5-8 Max Horiz 16=-516 (LC 8)

Max Uplift 9=-311 (LC 11), 16=-593 (LC 11) Max Grav 9=785 (LC 1), 16=1292 (LC 19)

FORCES Tension

TOP CHORD

(lb) - Maximum Compression/Maximum

1-16=-500/190, 1-2=-97/46, 2-15=-1435/480,

2-3=-310/22, 3-4=-237/18, 4-5=-731/333,

5-6=-730/361, 6-7=-552/318, 7-8=0/91,

7-9=-922/419

BOT CHORD 15-16=-406/1201, 14-15=-109/235

13-14=-68/198, 4-13=-532/1818,

12-13=-428/855, 11-12=-49/573, 10-11=-335/83, 6-11=-310/107, 9-10=-71/149

2-16=-1462/666, 4-12=-454/426,

5-12=-244/519, 6-12=-216/318,

7-10=-108/609, 2-4=-2259/864,

2-13=-511/345, 13-15=-501/1495

NOTES

WEBS

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 4-7-1, Exterior(2R) 4-7-1 to 10-7-5, Interior (1) 10-7-5 to 14-5-5, Exterior(2E) 14-5-5 to 17-5-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 593 lb uplift at joint 16 and 311 lb uplift at joint 9.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1019 lb down and 395 lb up at 1-0-5 on top 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: 1-2=-60, 3-5=-60, 5-7=-60, 7-8=-60, 14-16=-20, 11-13=-20, 9-10=-20

Concentrated Loads (lb) Vert: 17=-700

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA Fl. Cert 8634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

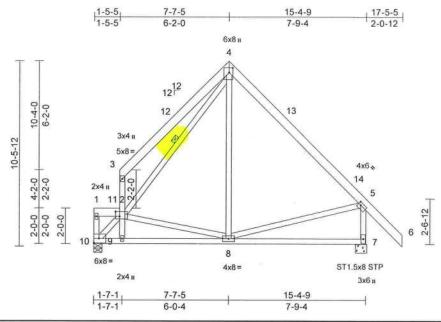
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MILITATA THE 1/2/2023 REFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	C6	Roof Special	1	1	Job Reference (optional)	T32098883

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:13 ID:NbvHmdZRVPYDTBP1jEWUGsyJhYp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:65.3

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

	(mis-mine)	31 1 11 - 11 11 1-											
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	0.51	Vert(LL)	-0.09	7-8	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.17	7-8	>999	240	3000/30000		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.01	7	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.02	8-9	>999	240	Weight: 142 lb	FT = 20%	

LUMBER

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

WEBS 2x4 SP No.3 *Except* 7-5:2x4 SP No.2

BRACING TOP CHORD

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

BOT CHORD Rigid ceiling directly applied or 8-10-12 oc

bracing. WEBS

1 Row at midpt 2-4 7=0-7-11, 10=0-5-8 REACTIONS (size)

Max Horiz 10=-549 (LC 8)

Max Uplift 7=-321 (LC 11), 10=-583 (LC 11)

Max Grav 7=787 (LC 1), 10=1282 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-10=-530/214, 1-2=-85/41, 2-9=0/134, 2-3=-421/454, 3-4=-401/452, 4-5=-681/334,

5-6=0/94, 5-7=-811/477

9-10=-438/1235, 8-9=-430/1228, 7-8=-99/187

BOT CHORD WEBS

2-10=-1451/639, 2-4=-520/226, 2-8=-850/478, 4-8=-98/372, 5-8=-158/409

NOTES

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 4-6-14, Exterior(2R) 4-6-14 to 10-7-5, Interior (1) 10-7-5 to 14-5-5, Exterior (2E) 14-5-5 to 17-5-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 583 lb uplift at joint 10 and 321 lb uplift at joint 7.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1019 lb down and 397 lb up at 1-0-5 on top 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: 1-2=-60, 3-4=-60, 4-5=-60, 5-6=-60, 7-10=-20

Concentrated Loads (lb)

Vert: 11=-700

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	C7	Roof Special Structural Gable	1	1	Job Reference (optional)	T32098884

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:13 ID:Xe0p6pyRKldcVsaG0hDQuTyJgWS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

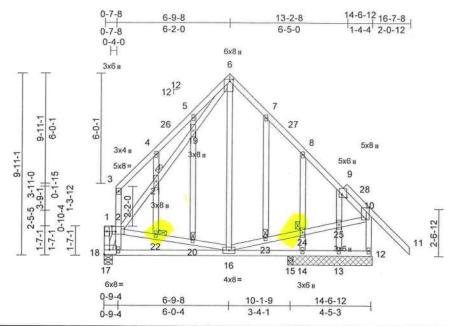


Plate Offsets (X, Y): [2:0-2-8,0-3-4], [6:0-1-4, Edge], [9:0-2-0,0-3-4], [10:0-7-8,0-2-0]

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	0.68	Vert(LL)	-0.03	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	2050	Wind(LL)	0.01	16-17	>999	240	Weight: 158 lb	FT = 20%

LUMBER

Scale = 1:63

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

OTHERS 2x4 SP No.3

BRACING

TOP CHORD

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

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

JOINTS

1 Brace at Jt(s): 20, 21, 22, 23, 24

REACTIONS (size) 12=4-7-11, 13=4-7-11, 14=4-7-11,

15=0-3-8, 18=0-5-8

Max Horiz 18=-488 (LC 6)

Max Uplift 12=-178 (LC 7), 13=-55 (LC 6), 14=-348 (LC 11), 15=-16 (LC 10),

18=-511 (LC 11)

12=498 (LC 18), 13=80 (LC 7), Max Grav

14=319 (LC 19), 15=76 (LC 3),

18=1258 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-18=-1091/461, 1-2=-39/19, 2-17=0/259, 2-3=-328/331, 3-4=-318/330, 4-5=-330/431,

5-6=-374/538, 6-7=-356/322, 7-8=-388/271,

8-9=-349/156, 9-10=-409/184, 10-11=0/88,

10-12=-484/220

BOT CHORD 17-18=-314/566, 16-17=-301/573,

15-16=-50/93, 14-15=-50/93, 13-14=-50/93,

12-13=-50/93

WEBS

NOTES

2-18=-569/233, 2-21=-321/133, 19-21=-355/149, 6-19=-395/170, 2-22=-270/236, 20-22=-281/248, 16-20=-300/270, 6-16=-140/205, 16-23=-175/350, 23-24=-154/341 24-25=-167/336, 10-25=-166/349, 5-19=-109/134, 19-20=-79/86, 4-21=-104/126, 21-22=-61/66, 7-23=-82/119, 8-24=-314/299, 14-24=-405/377,

9-25=-179/71, 13-25=-127/69

Unbalanced roof live loads have been considered for this design

Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-9-4, Exterior(2R) 3-9-4 to 9-9-8, Interior (1) 9-9-8 to 13-7-8, Exterior(2E) 13-7-8 to 16-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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 2x4 MT20 unless otherwise indicated.

Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

Gable studs spaced at 2-0-0 oc.

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

11) All bearings are assumed to be SP No.2.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 511 lb uplift at joint 18, 178 lb uplift at joint 12, 348 lb uplift at joint 14, 55 lb uplift at joint 13 and 16 lb uplift at joint 15.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1019 lb down and 423 lb up at 0-1-12 on top 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: 1-2=-60, 3-6=-60, 6-10=-60, 10-11=-60, 12-18=-20

Concentrated Loads (lb)

Vert: 1=-700

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63617

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guildance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job Truss Truss Type Qty Ply T32098885 3698546 C8 Roof Special Job Reference (optional) Builders FirstSource (Groveland, FL), Groveland, FL - 34736, Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:14 Page: 1 ID:MQYenIGAuUEISSr1LN9IGEyJgUm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -2-0-0 5-1-10 10-2-0 2-0-0 5-1-10 5-0-6 3 7 3×4 = 11 3 3-0-7 ST1.5x8 STP 10 2 0 5 Δ 6 4x4 = 2x4 II 3x4 = 5-1-10 10-2-0 5-1-10 5-0-6 Scale = 1:29.4 Loading (psf) Spacing 2-0-0 CSI DEFL (loc) I/defl L/d **PLATES** GRIP 20.0 TCLL (roof) Plate Grip DOL 1.25 TC -0.02 0.43 Vert(LL) 6 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.25 BC 0.26 Vert(CT) -0.04 5-6 >999 240 BCLL 0.0 Rep Stress Incr WB Horz(CT) 0.01 0.44 5 n/a n/a

LUMBER

BCDL

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

BRACING TOP CHORD

Structural wood sheathing directly applied,

Code

10.0

except end verticals. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-7-11, 5= Mechanical

Max Horiz 2=183 (LC 9)

Max Uplift 2=-359 (LC 6), 5=-206 (LC 6)

Max Grav 2=533 (LC 1), 5=389 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/29, 2-3=-868/581, 3-4=-110/76,

TOP CHORD 4-5=-169/206

2-6=-561/950, 5-6=-561/950

BOT CHORD

WEBS

3-6=0/200, 3-5=-900/625

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-9-5, Exterior(2R) 5-9-5 to 10-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 206 lb uplift at joint 5 and 359 lb uplift at joint 2.

Wind(LL)

0.03

>999

5-6

240

Weight: 46 lb

FT = 20%

This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Matrix-AS

LOAD CASE(S) Standard

FBC2020/TPI2014

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job Truss Truss Type Qty Ply T32098886 3698546 C9 Roof Special Girder Job Reference (optional) Builders FirstSource (Groveland, FL), Groveland, FL - 34736, Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:14 Page: 1 ID:IHhzk??7Jpf4XAtl?x5XO?yJgIB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -2-0-0 5-1-10 10-2-0 2-0-0 5-1-10 5-0-6 3 [2x4 II 4 4x8 = 10 3-0-7 ST1 5x8 STP 9-5-15 11 12 6 13 14 6x8 = 3x10 II 5x6 = 5-1-10 10-2-0 5-1-10 5-0-6 Scale = 1:29.7 Plate Offsets (X, Y): [2:0-1-10,Edge] CSI Loading Spacing 2-0-0 DEFL (psf) (loc) I/defl L/d PLATES GRIP

LUMBER

TCLL (roof)

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP M 26 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals BOT CHORD

20.0

10.0

10.0

0.0

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.25

1.25

NO

FBC2020/TPI2014

Rigid ceiling directly applied or 6-0-12 oc bracing

WEBS 1 Row at midpt

REACTIONS (size) 2=0-7-11, 5= Mechanical

Max Horiz 2=179 (LC 7)

Max Uplift 2=-1192 (LC 4), 5=-1003 (LC 4)

Max Grav 2=1856 (LC 1), 5=1706 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/29, 2-3=-3991/2321, 3-4=-119/59,

4-5=-126/110

BOT CHORD 2-6=-2276/3859, 5-6=-2276/3859

WEBS 3-6=-955/1718, 3-5=-3935/2363

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 M 26.
- Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1003 lb uplift at joint 5 and 1192 lb uplift at joint 2.

0.63

0.68

0.85

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

-0.10

-0.19

0.03

0.16

6-9

6-9

6-9

5

>999

>632

>771

n/a n/a

360

240

240

MT20

Weight: 54 lb

244/190

FT = 20%

TC

BC

WB

Matrix-MS

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1216 Ib down and 793 lb up at 2-10-8, 475 lb down and 275 lb up at 4-9-12, and 475 lb down and 278 lb up at 6-9-12, and 475 lb down and 283 lb up at 8-9-12 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: 1-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 11=-1216 (F), 12=-475 (F), 13=-475 (F),

14=-475 (F)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

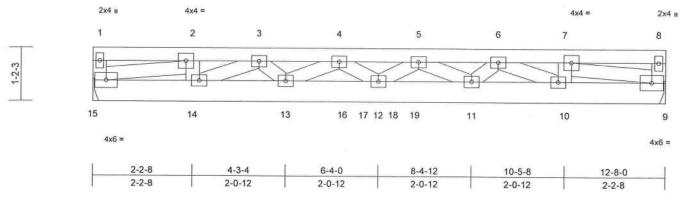


Job	Truss	Truss Type	Qty	Ply	
3698546	C10	Flat Girder	1	2	T32098887 Job Reference (optional)

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:14 ID:DxT1oMrj?11gSjYbdMZrA3yJgXu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

	2-2-8	3-8-3	5-5-6	7-2-10	8-11-13	10-5-8	12-8-0	1
12	2-2-8	1-5-11	1-9-3	1-9-3	1-9-3	1-5-11	2-2-8	



Scale = 1:25.5

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25	CSI TC			in -0.11	(loc) 12	I/defl >999		PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.20	12	>773	240	l	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.17	12	>903	240	Weight: 139 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

FORCES

TOP CHORD

Structural wood sheathing directly applied or

4-6-13 oc purlins.

BOT CHORD Rigid ceiling directly applied or 7-8-2 oc

bracing

REACTIONS (size) 9= Mechanical, 15= Mechanical Max Uplift 9=-783 (LC 4), 15=-790 (LC 4)

Max Grav 9=1236 (LC 1), 15=1248 (LC 1)

(lb) - Maximum Compression/Maximum Tension

1-2=-15/12, 2-3=-2801/1797, 3-4=-5336/3473, 4-5=-6958/4577,

5-6=-5259/3424, 6-7=-2774/1780, 7-8=-15/12

BOT CHORD 14-15=-1797/2801, 13-14=-3036/4661,

12-13=-4157/6323, 11-12=-4136/6290,

10-11=-2997/4600. 9-10=-1780/2774

1-15=-87/67, 8-9=-87/67, 2-14=-560/921,

2-15=-2965/1901, 3-14=-2120/1412,

3-13=-741/1143, 4-13=-1196/829,

4-12=-571/860, 5-12=-600/905,

5-11=-1248/862, 6-11=-724/1117

7-10=-555/912, 6-10=-2081/1387,

7-9=-2936/1882

NOTES

WEBS

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 3x4 MT20 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.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 790 lb uplift at joint 15 and 783 lb uplift at joint 9.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 174 Ib down and 153 lb up at 5-6-5, 452 lb down and 300 lb up at 6-0-0, 594 lb down and 499 lb up at 6-4-0, and 345 lb down and 348 lb up at 6-8-0, and 174 lb down and 153 lb up at 7-1-11 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: 1-8=-60, 9-15=-20 Concentrated Loads (lb)

Vert: 12=-468 (B), 16=-174 (B), 17=-452 (B), 18=-220 (B), 19=-174 (B)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Iar. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss		Truss Type		Qty	Ply			
3698546	C11		Flat		1	1	Job Reference (optional)		T32098888
Builders FirstSource (Grovelan	J, FL), Grov	reland, FL - 34736,					2023 MiTek Industries, Inc. Mor B70Hq3NSgPqnL8w3uITXbGK	n Nov 13 14:41:14	Page: 1
		4-3-4		8-4-12			12-8-0		
		4-3-4	l,	4-1-8		34	4-3-4		
			£7-						
	3х4 п		4×4 =			4x4 =		3x4 II	
	1		2			3		4	
₹ 80 87 87 7	0				/			0	1-8-3
				6					
	6x8 =			3x4 =				6x8 =	
Scale = 1:26.1			6-4-0 6-4-0				12-8-0 6-4-0		
Loading	(psf)	Spacing	2-0-0	CSI	DEFL		in (loc) I/defl L/d	PLATES (GRIP

LUMBER

TCLL (roof)

TCDL

BCLL

BCDL

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 7= Mechanical

Max Horiz 7=79 (LC 7)

20.0

10.0

10.0

0.0*

Spacing

Plate Grip DOL

Rep Stress Incr

Lumber DOL

1.25

1 25

YES

FBC2020/TPI2014

Max Uplift 5=-265 (LC 7), 7=-265 (LC 6)

Max Grav 5=495 (LC 1), 7=495 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

1-7=-134/233, 1-2=-117/56, 2-3=-1156/1360,

3-4=-83/127, 4-5=-133/234

BOT CHORD 6-7=-1330/1120, 5-6=-1352/1104 **WEBS**

2-6=0/237, 2-7=-1009/1435, 3-6=0/237, 3-5=-1048/1383

NOTES

FORCES

TOP CHORD

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 7 and 265 lb uplift at joint 5.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

0.40

0.40

0.43

(loc)

6-7

6-7

5

6 >999

-0.04

-0.09

-0.02

0.08

>999

>999

n/a

L/d

360

240

n/a

240

Weight: 60 lb

MT20

244/190

FT = 20%

This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

TC

BC

WB

Matrix-AS

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

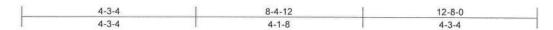
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

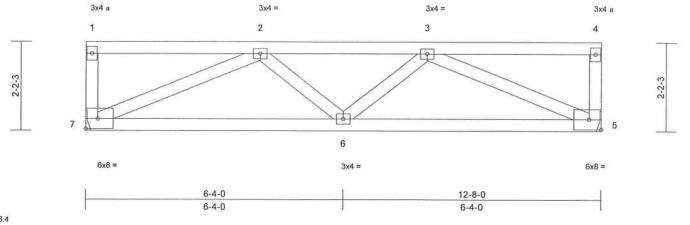


Job	Truss	Truss Type	Qty	Ply		VIII.
3698546	C12	Flat	1	1		T32098889
3030340	CIZ	1 lat			Job Reference (optional)	

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:15 ID:VxIYRhuoM3Ck5kbb3_9Z?cyJgZ6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:28.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	Udofi	1 /d	PLATES	CDID
TCLL (roof)	75.00050	Plate Grip DOL	1.25	0.0000	0.20	CONTROL WAS A VALUE	0.00				Secretary Commence	GRIP
Professional Commence of the C		Charles and all all all and		TC		Vert(LL)	-0.03	6-7			MT20	244/190
TCDL		Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.07	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.04	6	>999	240	Weight: 63 lb	FT = 20%

LUMBER

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

TOP CHORD

BRACING

Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 7= Mechanical

Max Horiz 7=-107 (LC 6)

Max Uplift 5=-268 (LC 7), 7=-268 (LC 6) Max Grav 5=495 (LC 1), 7=495 (LC 1)

FORCES TOP CHORD

(lb) - Maximum Compression/Maximum Tension

1-7=-129/224, 1-2=-96/46, 2-3=-866/1022, 3-4=-61/108, 4-5=-126/227

BOT CHORD 6-7=-937/870, 5-6=-965/848 WEBS

2-6=0/201, 2-7=-782/1147, 3-6=0/201,

3-5=-839/1071

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 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 268 lb uplift at joint 7 and 268 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Phillp J. O'Regan PE No.58126 Mi Tek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63617

November 14,2023

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

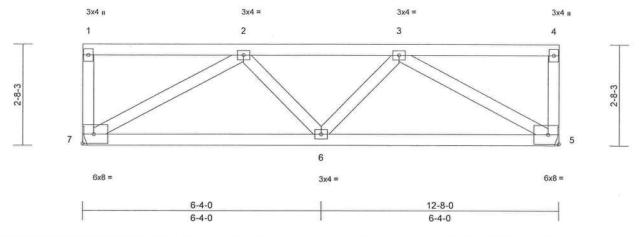
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		626cma9-002000
3698546	C13	Flat	1	1	Job Reference (optional)	T32098890

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries. Inc. Mon Nov 13 14:41:15 Page: 1





Scale = 1:30.7

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	0.36	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.07	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.03	5-6	>999	240	Weight: 66 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 7= Mechanical Max Horiz 7=-135 (LC 6)

Max Uplift 5=-273 (LC 7), 7=-273 (LC 6)

Structural wood sheathing directly applied,

Max Grav 5=495 (LC 1), 7=495 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-7=-127/217, 1-2=-99/49, 2-3=-692/820, 3-4=-60/109, 4-5=-122/224

BOT CHORD 6-7=-689/728, 5-6=-725/702

2-6=0/182, 2-7=-645/984, 3-6=0/182,

3-5=-721/883

NOTES

WEBS

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 273 lb uplift at joint 7 and 273 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

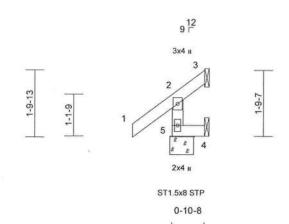


Job	Truss	Truss Type	Qty	Ply		
3698546	CJ1	Jack-Open	8	1	Job Reference (optional)	T32098891

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:15

Page: 1

-1-0-12 |0-10-8 1-0-12 0-10-8



Scale = 1:31.3

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	0.36	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR			2000	<i>6</i> .0	111.00	133.34	Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 0-11-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

3= Mechanical, 4= Mechanical, 5=0-7-11

5=71 (LC 7) Max Horiz

Max Uplift 3=-27 (LC 1), 4=-30 (LC 7), 5=-40

(LC 10)

3=16 (LC 6), 4=30 (LC 8), 5=162

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-142/256, 1-2=0/43, 2-3=-42/46

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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
- 6) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5, 30 lb uplift at joint 4 and 27 lb uplift at joint 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guildance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job Truss Truss Type Qty Ply T32098892 3698546 CJ1A Jack-Open Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:15 ID:ohSA4YGYTgi9z8b0Wtrha1yJg7W-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

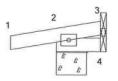
Page: 1

-1-0-0 0-11-4 1-0-0 0-11-4

2 12

ST1.5x8 STP





3x4 =

0-11-4

Scale = 1:24.9

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

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	0.11	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	7	>999	180	100000000	
BCLL	0.0*	Rep Stress Incr	YES	WB		Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		, , ,				*****	Weight: 4 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

Structural wood sheathing directly applied or

0-11-4 oc purlins.

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

bracing.

REACTIONS (size)

2=0-7-11, 3= Mechanical, 4= Mechanical

Max Horiz 2=23 (LC 6)

Max Uplift 2=-126 (LC 6), 3=-6 (LC 10), 4=-2

(LC 1)

2=129 (LC 1), 3=7 (LC 3), 4=13 Max Grav

(LC 6)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/10, 2-3=-87/37

BOT CHORD 2-4=-24/52

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 .
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 2, 2 lb uplift at joint 4 and 6 lb uplift at joint 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16923 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314,434,1200 / MiTek-US.com

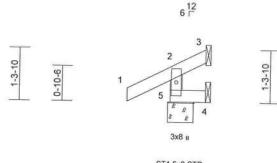
Job Truss Truss Type Qty Ply 3698546 CJ1D T32098893 Jack-Open Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:16 ID:g3yFPl4azejq58RJGIToAlyJg1J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-1-0-12 | 0-10-8 1-0-12 | 0-10-8



ST1.5x8 STP

0-10-8

Scale = 1:28.5

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC2020/TPI2014	CSI TC BC WB Matrix-MR	0.20 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 5 5 3	l/defl >999 >999 n/a		PLATES MT20 Weight: 5 lb	GRIP 244/190 FT = 20%
--	---------------------------------------	--	---	------------------------------------	----------------------	--	----------------------------	----------------------	-------------------------------	--	--------------------------------	-----------------------------

LUMBER

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

2x4 SP No.3 WEBS

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 0-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

3= Mechanical, 4= Mechanical, 5=0-7-11

Max Horiz 5=50 (LC 7)

Max Uplift 3=-25 (LC 1), 4=-10 (LC 7), 5=-79

(LC 10)

3=16 (LC 6), 4=10 (LC 8), 5=162 Max Grav

(LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-141/232, 1-2=0/32, 2-3=-31/20 4-5=0/0

BOT CHORD NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 5, 10 lb uplift at joint 4 and 25 lb uplift at joint 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

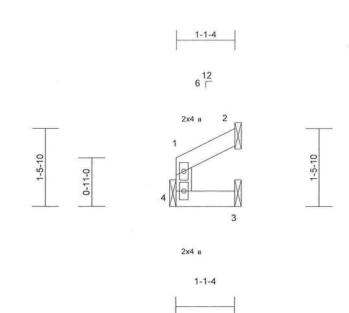
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guildance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	CJ1J	Jack-Open	1	1	Job Reference (optional)	T32098894

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:16 ID:6LvfiSA5EoWHLkAZva4MhEyJg_c-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21.8

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	0.05	Vert(LL)	0.00	3-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR		1.14072888880000000				VOV104557	Weight: 4 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

Structural wood sheathing directly applied or

1-1-4 oc purlins, except end verticals **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size)

2= Mechanical, 3= Mechanical, 4= Mechanical

Max Horiz 4=39 (LC 7)

Max Uplift 2=-37 (LC 10), 3=-8 (LC 7) 2=27 (LC 1), 3=18 (LC 3), 4=38 Max Grav

(LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-30/24, 1-2=-34/20

BOT CHORD 3-4=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 3 and 37 lb uplift at joint 2.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd, Chesterfield, MO 63017 Date:

November 14,2023

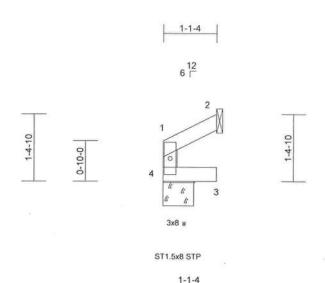
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	CJ1K	Jack-Open	1	1	Job Reference (optional)	T32098895

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:16 ID:ezwZCYmSS9qBLQ?Aq5z4imyJfzq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.8

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	0.09	Vert(LL)	0.00	3	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	3	>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	FBC2020/TPI2014	Matrix-MR		Wind(LL)	0.00	3	>999	240	Weight: 4 lb	FT = 20%

LUMBER LOAD CASE(S) Standard

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

WEBS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied or

BOT CHORD

1-1-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2= Mechanical, 4=0-7-11 Max Horiz 4=37 (LC 7)

Max Uplift 2=-41 (LC 10)

Max Grav 2=39 (LC 18), 4=38 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-19/14, 1-2=-38/29

BOT CHORD 3-4=0/0

FORCES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 4 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 41 lb uplift at joint

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Int. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

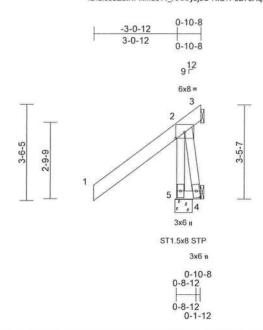
November 14,2023

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		
3698546	CJ1M	Jack-Open	6	1	Job Reference (optional)	T32098896

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:16 ID:Llc0LEdtNFiMn6c14_AAXryJjuU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.4

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

· mie omeens (rij 1):	[2.0 , 0.0 2 10											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	în	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	0.00	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	5	>999	240	127002-200-20	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

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

bracing.

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

Max Horiz 5=175 (LC 9)

Max Uplift 3=-442 (LC 18), 4=-540 (LC 14),

5=-167 (LC 10)

Max Grav 3=490 (LC 10), 4=257 (LC 8),

5=651 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-645/746, 1-2=0/116, 2-3=-287/940

BOT CHORD 4-5=-321/61

WEBS 2-4=-258/1357

NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-11-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 5, 540 lb uplift at joint 4 and 442 lb uplift at joint 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

Marking - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Truss Truss Type Qty Ply T32098897 3698546 CJ2 Jack-Open Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

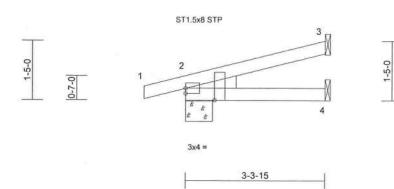
Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:17 ID:icuYoawUIUDeaxnKeJlt1kyJgcy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3 12

3x8 II



Scale = 1:27.5

Plate Offsets	(X,	Y):	[2:Edge,0-1-7]	, [2:0-3-6,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	0.14	Vert(LL)	0.00	4-7	>999	360		244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.01	4-7	>999	240	135559000	A. 1. 1. 2. 2
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.01	4-7		100	Weight: 13 lb	FT = 20%

LUMBER

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

WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-15 oc purlins.

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

bracing.

REACTIONS (size) 2=0-7-11, 3= Mechanical, 4=

Mechanical Max Horiz 2=70 (LC 6)

Max Uplift 2=-140 (LC 6), 3=-63 (LC 10),

4=-10 (LC 10)

Max Grav 2=200 (LC 1), 3=77 (LC 1), 4=56 (LC 3)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-86/24

BOT CHORD 2-4=-86/100

NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 63 lb uplift at joint

3, 140 lb uplift at joint 2 and 10 lb uplift at joint 4.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 66.44 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

🔼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



 Job
 Truss
 Truss Type
 Qty
 Ply

 3698546
 CJ2A
 Jack-Open
 4
 1
 Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

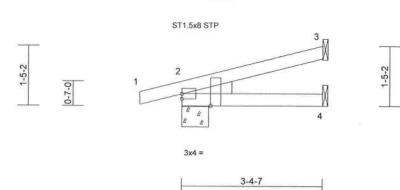
Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:17 ID:Mwc5Kg30TAkx1nidLrzhWGyJgcm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3 ¹²

3x8 II



Scale = 1:27.5

Plate Offsets (X, Y): [2:Edge,0-1-7], [2:0-3-6,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	0.15	Vert(LL)	0.00	4-7	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.01	4-7	>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	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.01	4-7	>999	V. Sameral	Weight: 14 lb	FT = 20%

LUMBER

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

WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-7 oc purlins.

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

bracing.

REACTIONS (size) 2=0-7-11, 3= Mechanical, 4=

Mechanical Max Horiz 2=70 (LC 6)

Max Uplift 2=-141 (LC 6), 3=-64 (LC 10),

4=-10 (LC 10)

Max Grav 2=201 (LC 1), 3=78 (LC 1), 4=57

(LC 3)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-87/24

BOT CHORD 2-4=-88/101

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 .

6) 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

3, 141 lb uplift at joint 2 and 10 lb uplift at joint 4.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

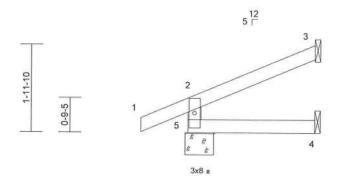


Job	Truss	Truss Type	Qty	Ply		
3698546	CJ2B	Jack-Open	2	1	Job Reference (optional)	T32098899

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:17 ID:I3pOmTYrEK0gjPK0OWWMKMyJbq9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





ST1.5x8 STP

Scale = 1:25.9

2-10-5

Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI TC BC	0.09	DEFL Vert(LL) Vert(CT)	in 0.00 0.00	(loc) 4-5 4-5	l/defl >999 >999		PLATES MT20	GRIP 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a	l	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR		Wind(LL)	0.00	4-5	>999	240	Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

WEBS 2x4 SP No.3

TOP CHORD

Structural wood sheathing directly applied or

2-11-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

3= Mechanical, 4= Mechanical, 5=0-7-11

Max Horiz 5=82 (LC 10)

Max Uplift 3=-73 (LC 10), 5=-94 (LC 6)

Max Grav 3=64 (LC 1), 4=49 (LC 3), 5=195

(LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-167/262, 1-2=0/28, 2-3=-59/36

BOT CHORD 4-5=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 .
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 5 and 73 lb uplift at joint 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inr. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Salety Information available from the Structural Building Component Association (www.sbcscomponents.com)

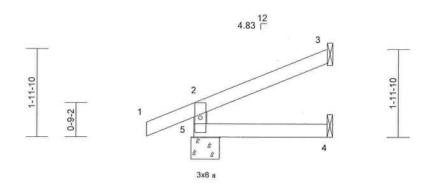


Job	Truss	Truss Type	Qty	Ply		
3698546	CJ2C	Jack-Open	2	1	Job Reference (optional)	T32098900

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:17 ID:?dn10peoulZJDu5bVGgmnYyJbrK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





ST1.5x8 STP

3-0-1

Scale = 1:25.9

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	0.21	Vert(LL)	0.00	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR	1000 C000 M	Wind(LL)	0.00	4-5	>999	240	Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals.

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

REACTIONS (size)

3= Mechanical, 4= Mechanical,

Max Horiz 5=82 (LC 10)

Max Uplift 3=-76 (LC 10), 5=-106 (LC 6) Max Grav 3=69 (LC 1), 4=51 (LC 3), 5=200

(LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-171/310, 1-2=0/27, 2-3=-58/37

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
 Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat.
 II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 5 and 76 lb uplift at joint 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA - FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

314,434,1200 / MiTek-US com

Job Truss Type Qty Ply T32098901 3698546 CJ3A Jack-Open Job Reference (optional)

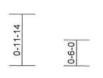
Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

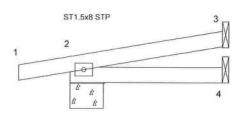
Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:17 ID:9eG37FKhlCLS3vUzlQRsH4yJg7R-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



2 12





3x4 =

2-11-4

Scale = 1:22.2

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

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	0.12	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	4-7	>999	180	(A.1360-A.9504)	STREET, STATES
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		100					Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-11-4 oc purlins.

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

bracing.

REACTIONS (size)

2=0-7-11, 3= Mechanical, 4=

Mechanical

Max Horiz 2=42 (LC 6)

Max Uplift 2=-140 (LC 6), 3=-58 (LC 10)

Max Grav 2=185 (LC 1), 3=70 (LC 1), 4=50

(LC 3)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/10, 2-3=-83/17

BOT CHORD 2-4=-12/69

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 58 lb uplift at joint 3 and 140 lb uplift at joint 2.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DRA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

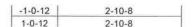
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

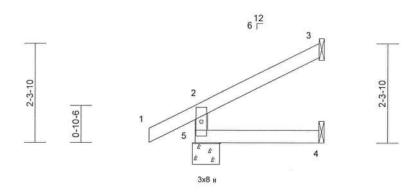


Job	Truss	Truss Type	Qty	Ply		SEA DISSERVIÇÃO DE SEA SEA
3698546	CJ3D	Jack-Open	2	1	Job Reference (optional)	T32098902

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:18 ID:g3yFPI4azejq58RJGIToAlyJg1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





ST1.5x8 STP

2-10-8

Scale = 1:26.8

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	0.25	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.01	4-5	>999	180	1	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR						(1)(1)	Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-11-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

3= Mechanical, 4= Mechanical,

5=0-7-11

Max Horiz 5=99 (LC 10)

Max Uplift 3=-82 (LC 10), 4=-3 (LC 10), 5=-79

(LC 10)

3=65 (LC 1), 4=49 (LC 3), 5=196 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-168/248, 1-2=0/32, 2-3=-76/44

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 5, 82 lb uplift at joint 3 and 3 lb uplift at joint 4.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

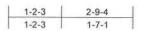
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



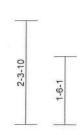
Job	Truss	Truss Type	Qty	Ply	1	
3698546	C131	Jack-Open	1	1	Job Reference (optional)	T32098903

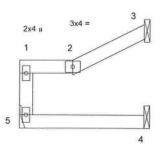
Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:18 ID:1E6OKv23YIOJL4i85RXQEUyJfay-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



6 [







2x4 II

2-9-4

Sca	le = '	1:25.7

Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI TC BC	0.17	DEFL Vert(LL) Vert(CT)	in 0.00 -0.01	(loc) 4-5 4-5	l/defl >999 >999	L/d 240 180	MT20	GRIP 244/190
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES FBC2020/TPI2014	WB Matrix-MR	0.00	Horz(CT)	0.01	3	n/a	n/a	Weight: 10 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5= Mechanical

Max Horiz 5=66 (LC 7)

Max Uplift 3=-76 (LC 10), 4=-2 (LC 7), 5=-33

(LC 6)

Max Grav 3=73 (LC 1), 4=50 (LC 3), 5=103

(LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-5=-96/109, 1-2=-79/32, 2-3=-67/47

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 1-2-3, Exterior(2R) 1-2-3 to 2-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 5, 76 lb uplift at joint 3 and 2 lb uplift at joint 4.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16925 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

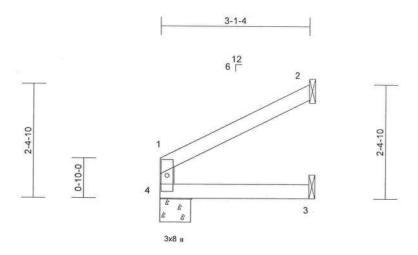
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job Truss Type Qty Ply T32098904 3698546 CJ3K Jack-Open 1 Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:18 ID:NfsRE_hsNOkQMc_ZurWcYNyJfbP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



ST1.5x8 STP

3-1-4

Scale = 1:24.2

Loading TCLL (roof) TCDL BCLL		Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI TC BC WB	0.29 0.18 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.01 -0.01	(loc) 3-4 3-4 2	l/defl >999 >999 n/a	2733455	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD

Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size)

2= Mechanical, 3= Mechanical, 4=0-7-11

Max Horiz 4=75 (LC 10)

Max Uplift 2=-94 (LC 10), 3=-5 (LC 10), 4=-22

(LC 10)

Max Grav 2=81 (LC 1), 3=56 (LC 3), 4=116

(LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-112/108, 1-2=-87/50

BOT CHORD 3-4=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 4 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 22 lb uplift at joint

4, 94 lb uplift at joint 2 and 5 lb uplift at joint 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58116 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

November 14,2023

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

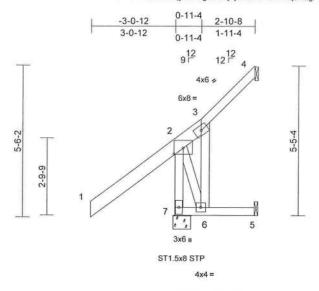
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	CJ3M	Jack-Open	2	1	Job Reference (optional)	T32098905

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:18 ID:iFSmXZ6KBEcqy55WsgMKc3yJjtt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



1-1-0 2-10-8 1-1-0 1-9-8

Scale = 1:42

Plate Offsets (X, Y): [2:0-4-0,0-2-10]												
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	0.74	Vert(LL)	-0.03	5-6	>929	2000	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.03	5-6	>999	180		2111100
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.09	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP						16	Weight: 32 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 7-2:2x4 SP 2850F

2.0E or 2x4 SP M 31

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals

BOT CHORD Rigid ceiling directly applied or 7-9-15 oc

bracing

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

Max Horiz 7=210 (LC 7)

Max Uplift 4=-106 (LC 10), 5=-112 (LC 7),

7=-41 (LC 6)

Max Grav 4=77 (LC 18), 5=69 (LC 8), 7=415

(LC 1)

(lb) - Maximum Compression/Maximum

Tension

2-7=-563/502, 1-2=0/116, 2-3=-250/478,

3-4=-136/71

BOT CHORD 6-7=-470/105, 5-6=0/0

WEBS

TOP CHORD

3-6=-1020/350, 2-6=-319/1459

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 1-0-0, Exterior(2E) 1-0-0 to 2-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 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 41 lb uplift at joint 7, 106 lb uplift at joint 4 and 112 lb uplift at joint 5.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

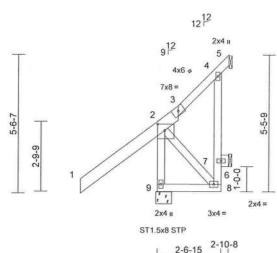


Job	Truss	Truss Type	Qty	Ply		Name on Prince Street
3698546	CJ3MT	Jack-Open	4	1	Job Reference (optional)	T32098906

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:19 ID:1Y?0oAjwBkYVnAngLn0LoLyJiQ7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:46.2

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

	[2:0 0 0;0 0 0]										nii -	9
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	0.74	Vert(LL)	0.00	4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	0.00	8-9	>999	240		2111100
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	\$730.50		2020	150	0.000	ere.	Weight: 36 lb	FT = 20%

2-6-15

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-5:2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 *Except* 8-4:2x4 SP No.3,

7-6:2x6 SP No.2

2x4 SP No.2 *Except* 8-2:2x4 SP No.3

BRACING TOP CHORD

WEBS

Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

REACTIONS (size) 5= Mechanical, 6= Mechanical,

9=0-7-11 Max Horiz 9=211 (LC 7)

Max Uplift 5=-159 (LC 10), 6=-150 (LC 24),

9=-42 (LC 6)

Max Grav 5=122 (LC 18), 6=85 (LC 6), 9=415

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 2-9=-397/316, 1-2=0/116, 2-3=-109/82,

3-4=-90/105, 4-5=-270/85

8-9=-344/124, 7-8=-401/116, 4-7=-482/167,

6-7=0/0

WEBS 2-8=-124/544

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 2-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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 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 42 lb uplift at joint 9, 159 lb uplift at joint 5 and 150 lb uplift at joint 6.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FI, Cert 6634 16023 Swingley Ridge Rd, Chesterfield, MO 63017

November 14,2023

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

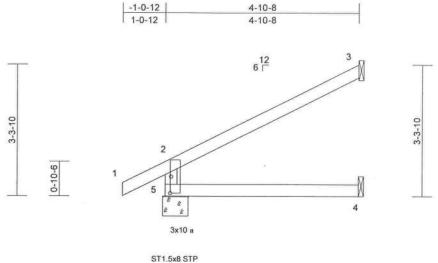
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	CJ5D	Jack-Open	2	1		T32098907
3090340	CJSD	Jack-Open		1.	Job Reference (optional)	

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:19 ID:g3yFPI4azejq58RJGIToAlyJg1J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4-10-8	
1100	

Scale = 1:29

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

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	0.60	Vert(LL)	-0.02	4-5	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.04	4-5	>999	240	Weight: 18 lb	FT = 20%

LUMBER

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

2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

3= Mechanical, 4= Mechanical,

5=0-7-11

Max Horiz 5=159 (LC 10)

Max Uplift 3=-145 (LC 10), 4=-2 (LC 10),

5=-102 (LC 10)

Max Grav 3=125 (LC 1), 4=87 (LC 3), 5=269

(LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

2-5=-227/324, 1-2=0/32, 2-3=-136/78 TOP CHORD

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 5, 145 lb uplift at joint 3 and 2 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA, Fl. Cett 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFFRENCE PAGE MIL-7473 rev. 1/2/2023 REFORE USE

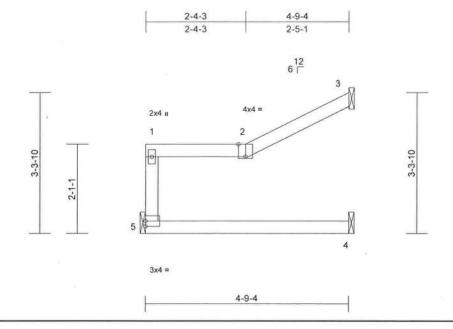
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	CJ5J	Jack-Open	1	1	Job Reference (optional)	T32098908

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:19 ID:sTbNsCxT62jpDRMMQzsmE5yJfZo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.1

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

30 10 50 1				-								
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	0.47	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	0.0000000000000000000000000000000000000	Wind(LL)	0.03	4-5	>999	240	Weight: 17 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

3= Mechanical, 4= Mechanical, 5=

Mechanical

Max Horiz 5=100 (LC 7)

Max Uplift 3=-84 (LC 10), 5=-68 (LC 6) Max Grav 3=130 (LC 1), 4=88 (LC 3), 5=183

(LC 1)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD 1-5=-1

1-5=-178/205, 1-2=-123/50, 2-3=-113/81

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
 Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat.
 II; Exp C; Enclosed; MWFRS (envelope) exterior zone
 and C-C Exterior(2E) 0-1-12 to 2-4-3, Exterior(2R) 2-4-3
 to 4-8-8 zone; cantilever left and right exposed; end
 vertical left and right exposed; C-C for members and
 forces & MWFRS for reactions shown; Lumber
 DOL=1.60 plate grip DOL=1.60
- 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 20.0 psg.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 5 and 84 lb uplift at joint 3.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

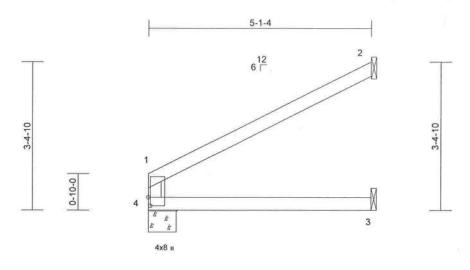
Philip J. O'Regan PE No. 58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	CJ5K	Jack-Open	1	1	Job Reference (optional)	T32098909

Run: 8.72 S. Oct. 5.2023 Print: 8.720 S. Oct. 5.2023 MiTek Industries, Inc. Mon Nov.13.14:41:20 ID:WWnUpVtLIV5W7gTPeQGbX2yJfZt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



ST1.5x8 STP

5-1-4

Scale = 1:26.4

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

The second second second second	_ ecason— roa ros ava											
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	0.65	Vert(LL)	-0.03	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.06	3-4	>989	240	0.550000.5500	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.06	3-4	>999	240	Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

e) 2= Mechanical, 3= Mechanical,

4=0-7-11

Max Horiz 4=136 (LC 10)

Max Uplift 2=-154 (LC 10), 3=-3 (LC 10),

4=-49 (LC 10)

Max Grav 2=137 (LC 1), 3=92 (LC 3), 4=196

(LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-192/190, 1-2=-145/82

BOT CHORD 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 4 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 49 lb uplift at joint 4, 154 lb uplift at joint 2 and 3 lb uplift at joint 3.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

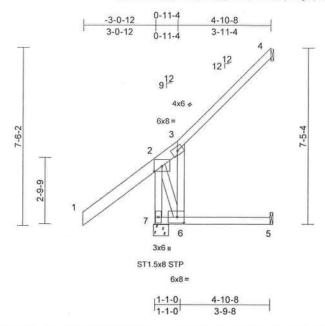
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chore members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		1- Marco A v.A. (1991)
3698546	CJ5M	Jack-Open	2	1	Job Reference (optional)	T32098910

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:20 ID:FtUf0fihPbvkynw7nAG2ecyJjt5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.8

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	0.68	Vert(LL)	0.19	5-6	>303	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	0.18	5-6	>311	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	-0.35	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP				100	10.110.000	100.7316	Weight: 40 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 SP No.2

BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.3 *Except* 7-2:2x4 SP 2850F

2.0E or 2x4 SP M 31

Plate Offsets (X, Y): [2:0-4-0.0-2-10], [6:0-3-8.0-3-0]

BRACING TOP CHORD

OP CHORD Structural wood sheathing directly applied or

4-11-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

7=0-7-11

Max Horiz 7=348 (LC 10)

Max Uplift 4=-218 (LC 10), 5=-132 (LC 10),

7=-5 (LC 6)

Max Grav 4=160 (LC 18), 5=121 (LC 8),

7=445 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-639/760, 1-2=0/116, 2-3=-254/330,

3-4=-254/138

BOT CHORD 6-7=-635/183, 5-6=0/0

WEBS 3-6=-801/241, 2-6=-531/1896

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 1-0-0, Exterior(2E) 1-0-0 to 4-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: , Joint 7 SP No.1 .
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 7, 218 lb uplift at joint 4 and 132 lb uplift at joint 5.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

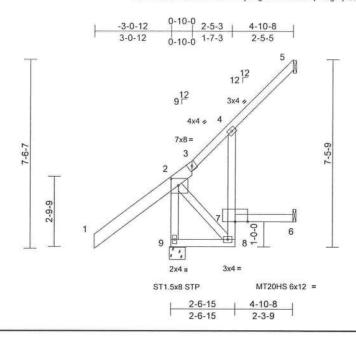
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chexterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply		
3698546	CJ5MT	Jack-Open	4	1	Job Reference (optional)	T32098911

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries Inc. Mon Nov 13 14:41:20 ID:h7Fzt536LfCOmdVFYN18TSyJiPg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.1

Plate Offsets	(X,	Y):	[2:0-3-8	[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	0.66	Vert(LL)	0.12	8	>450	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	0.12	8	>477	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.14	5	n/a	n/a	Tono et source.	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Terror Williams	SHOURT MAKE ON			CYCOACTC III	Weight: 43 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-5:2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 *Except* 8-4:2x4 SP No.3 2x4 SP No.2 *Except* 8-2:2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

5= Mechanical, 6= Mechanical, 9=0-7-11

Max Horiz 9=350 (LC 10)

Max Uplift 5=-239 (LC 10), 6=-114 (LC 10),

9=-5 (LC 6)

5=156 (LC 18), 6=100 (LC 8), Max Grav

9=445 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD

2-9=-424/173, 1-2=0/116, 2-3=-129/25, 3-4=-106/41, 4-5=-266/159

8-9=-520/237, 7-8=-442/149, 4-7=-266/94,

BOT CHORD

WEBS 2-8=-184/629

NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 4-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , 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 5 lb uplift at joint 9, 239 lb uplift at joint 5 and 114 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	CJ6	Jack-Open	2	1	Job Reference (optional)	T32098912

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:20 ID:u?a8h8G2i4lgxEwiHCFRAeyJgcW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

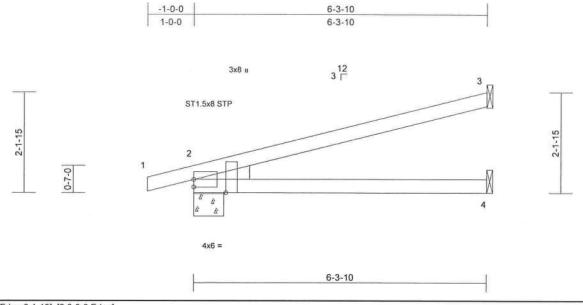


Plate Offsets (X, Y): [2:Edge,0-1-15], [2:0-3-6,Edge]	e,0-1-15], [2:0-3-6,Edge]
---	---------------------------

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	Lid	PLATES	CDID
The state of the s				100000	27222		111				F-2-120 (200 F)	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.07	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.15	4-7	>516	240	125 1020 6140	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.17	4-7	>451	240	Weight: 22 lb	FT = 20%

LUMBER

Scale = 1:24.8

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 2=0-7-11, 3= Mechanical, 4=

Mechanical Max Horiz 2=115 (LC 6)

Max Uplift 2=-192 (LC 6), 3=-138 (LC 10),

4=-7 (LC 10)

Max Grav 2=314 (LC 1), 3=164 (LC 1), 4=110

(LC 3)

(lb) - Maximum Compression/Maximum

Tension

1-2=0/15, 2-3=-181/90

BOT CHORD 2-4=-236/207

NOTES

FORCES

TOP CHORD

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 138 lb uplift at joint 3, 192 lb uplift at joint 2 and 7 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

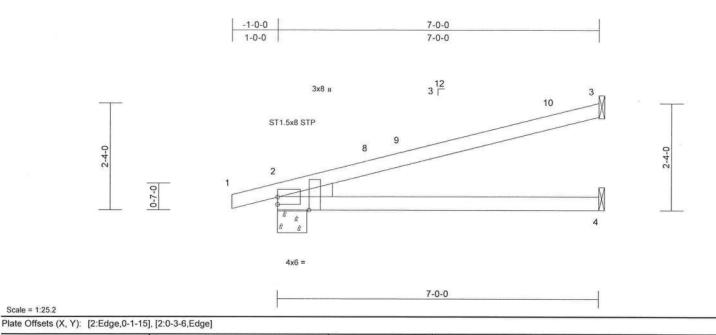
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	CJ8	Jack-Open	1	1	Job Reference (optional)	T32098913

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:21 ID:bffUCIAfMxsfc9uMNEdoO9yJgcd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



BCLL BCDL LUMBER

TCLL (roof)

Loading

TCDL

Scale = 1:25.2

TOP CHORD **BOT CHORD**

2x4 SP No.2 2x4 SP No.2 Left: 2x4 SP No.3

WEDGE BRACING

Structural wood sheathing directly applied. TOP CHORD BOT CHORD Rigid ceiling directly applied.

(psf)

20.0

10.0

0.0

10.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

REACTIONS (size) 2=0-7-11, 3= Mechanical, 4=

Mechanical

Max Horiz 2=125 (LC 6) Max Uplift 2=-205 (LC 6), 3=-154 (LC 6), 4=-5

(LC 10)

Max Grav 2=342 (LC 1), 3=185 (LC 1), 4=122

(LC 3)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-202/87

BOT CHORD 2-4=-237/230

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-8-5, Exterior(2R) 2-8-5 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.

CSI

TC

BC

WB

Matrix-AS

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 3, 205 lb uplift at joint 2 and 5 lb uplift at joint 4.

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

0.78

0.76

0.00

in (loc)

-0.10

-0.22

-0.03

0.22

I/defl

>853

>379

>379

n/a

4-7

4-7

4-7

3

L/d

360

240

n/a

240

PLATES

Weight: 25 lb

MT20

GRIP

244/190

FT = 20%

This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

2-0-0

1.25

1.25

YES

FBC2020/TPI2014

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FL. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE LISE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	D1	Roof Special Girder	1	1	Job Reference (optional)	T32098914

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:21 ID:7BRT?EJQyGP?kZL1v8NkAQyJfWk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

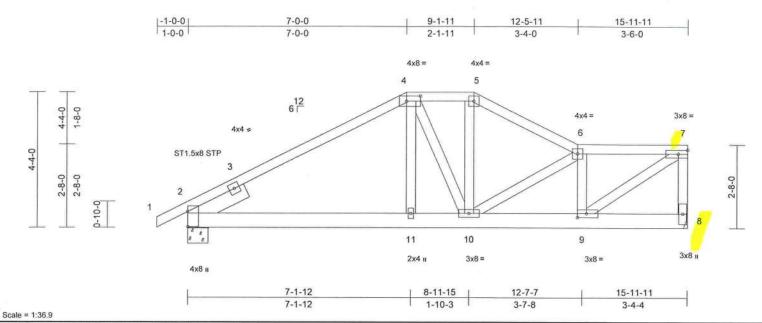


Plate Offsets (X, Y): [2:0-5-13,0-0-1]	, [4:0-5-4,0-2-0],	[9:0-3-8,0-1-8]
---------------------	---------------------	--------------------	-----------------

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	0.77	Vert(LL)	-0.05	10-11	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.09	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB		Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.08	10-11	>999	240	Weight: 103 lb	FT = 20%

LUMBER

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

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-5 oc purlins, except end verticals. Rigid ceiling directly applied or 7-1-5 oc **BOT CHORD**

bracing.

REACTIONS 2=0-7-11, 8= Mechanical

Max Horiz 2=179 (LC 7)

Max Uplift 2=-794 (LC 8), 8=-744 (LC 9)

Max Grav 2=1332 (LC 1), 8=1243 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/27, 2-4=-1886/1167, 4-5=-1680/1103,

5-6=-1900/1194, 6-7=-1528/896,

7-8=-1173/727

2-11=-1012/1602, 10-11=-1017/1616,

9-10=-991/1595, 8-9=-51/39 WEBS

4-11=-218/415, 4-10=-180/259, 5-10=-309/532, 6-10=-192/241

6-9=-1069/733, 7-9=-1104/1837

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 744 lb uplift at joint 8 and 794 lb uplift at joint 2.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 177 lb up at 7-0-0, and 148 lb down and 177 lb up at 9-1-11 on top chord, and 478 lb down and 340 lb up at 7-0-0, and 512 lb down and 307 lb up at 9-0-15 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=-60, 4-5=-60, 5-6=-60, 6-7=-60, 8-12=-20 Concentrated Loads (lb)

Vert: 4=-129 (B), 5=-129 (B), 11=-478 (B), 10=-512 (B)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Page: 1

Philip J. O'Regan PE No.58126 Millek Inc. DBA Millek USA FL Cett 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	D2	Roof Special	1	1	Job Reference (optional)	T32098915

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:21 ID:UhHDBZntmFKTvZpXhqatFfyJfW7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

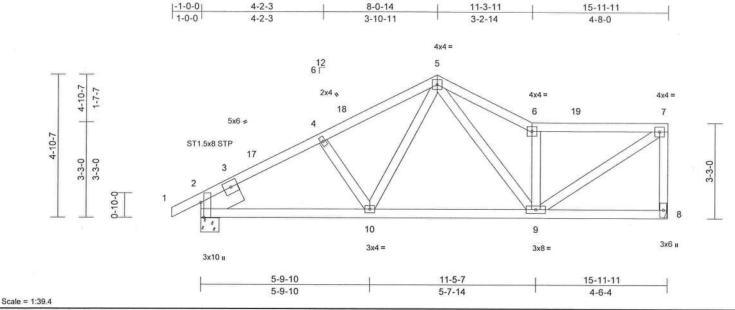


Plate Offsets (X, Y): [2:0-6-1,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	1./d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.04	9-10	>999		MT20	244/190
500mmm N/ //		10 Di 100 Carl 100 C		17.25		100000000000000000000000000000000000000				100000000	(200 to 100 to 1	244/190
TCDL	10.0	Lumber DOL	1.25	BC		Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.04	9-10	>999	240	Weight: 91 lb	FT = 20%

LUMBER

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

SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. 2=0-7-11, 8= Mechanical

REACTIONS (size)

Max Horiz 2=217 (LC 9) Max Uplift 2=-316 (LC 10), 8=-280 (LC 11)

Max Grav 2=709 (LC 1), 8=617 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/27, 2-4=-889/558, 4-5=-794/548, 5-6=-892/678, 6-7=-723/525, 7-8=-655/422

BOT CHORD 2-10=-381/857, 9-10=-235/672, 8-9=-65/89 4-10=-150/205, 5-10=-118/231, WEBS

5-9=-237/338, 6-9=-641/517, 7-9=-496/893

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-0-14, Exterior(2R) 5-0-14 to 8-0-14, Exterior(2E) 8-0-14 to 11-3-11, Interior (1) 11-3-11 to 12-9-15, Exterior(2E) 12-9-15 to 15-9-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 280 lb uplift at joint 8 and 316 lb uplift at joint 2.
- 10) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.88126 MiTek Inc, BBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

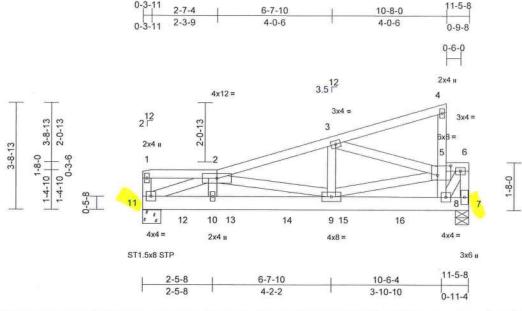
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		3.0020000000000000000000000000000000000
3698546	D3	Roof Special Girder	1	2	Job Reference (optional)	T32098916

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:22 ID:jyOTCGIseSIMaAcojMryVjyJfVS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.4 Plate Offsets (X, Y): [5:0-5-8,0-4-0]

	0. 56	lo 8		Tan								
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	0.30	Vert(LL)	-0.03	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.05	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	250000	Wind(LL)	0.04	8-9	>999	240	Weight: 153 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

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

bracing.

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

Max Horiz 11=238 (LC 5)

Max Uplift 7=-1010 (LC 8), 11=-642 (LC 4) Max Grav 7=1776 (LC 1), 11=1200 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-141/74, 2-3=-2821/1551, 3-4=-104/32,

5-8=-1195/742, 4-5=-94/104, 5-6=-1251/705,

6-7=-1907/1074, 1-11=-93/70

10-11=-1437/2447, 9-10=-1454/2454,

8-9=-798/1496, 7-8=-77/116

WEBS 2-10=-50/116, 2-9=-257/354, 3-9=-617/1248, 3-5=-2735/1594, 5-9=-822/1244,

6-8=-1232/2221, 2-11=-2493/1321

NOTES

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

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

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies,

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

Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1010 lb uplift at joint 7 and 642 lb uplift at joint 11.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20 lb down at 6-5-1, 83 lb down and 43 lb up at 8-1-1, 163 lb down and 78 lb up at 10-1-1, and 1223 lb down and 754 lb up at 12-0-12, and 597 lb down and 290 lb up at 14-0-12 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: 1-2=-60, 2-4=-60, 5-6=-60, 7-11=-20

Concentrated Loads (lb)

Vert: 12=-19 (F), 13=-83 (F), 14=-163 (F), 15=-1223 (F), 16=-597 (F)

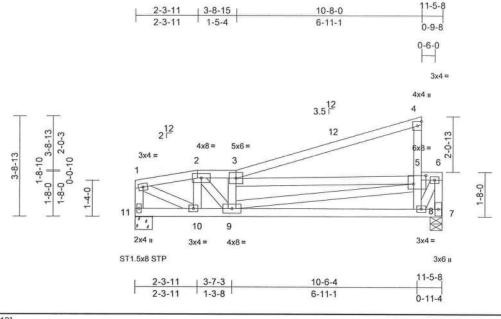
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16923 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Job	Truss	Truss Type	Qty	Ply		
3698546	D4	Roof Special	1	1	Job Reference (optional)	T32098917

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13:14:41:22 ID:Rt_FIhQ7IX?xmiNjIT1JvqyJfVI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.1

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

	(*************************************	9										
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	0.63	Vert(LL)	-0.05	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.10	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	10000000	Wind(LL)	0.04	8-9	>999	1717-170	Weight: 72 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-7 oc purlins, except end verticals.

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

8-4-3 oc bracing: 9-10.

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

Max Horiz 11=225 (LC 7) Max Uplift 7=-266 (LC 10), 11=-221 (LC 6)

Max Grav 7=447 (LC 1), 11=447 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-614/430, 2-3=-909/623, 3-4=-151/69,

5-8=-318/361, 4-5=-229/285, 5-6=-268/228,

6-7=-599/409, 1-11=-455/383

10-11=-224/272, 9-10=-481/754,

8-9=-132/335, 7-8=-29/48 WEBS

2-10=-277/163, 2-9=-285/483, 3-9=-423/442, 3-5=-940/720, 5-9=-617/816, 6-8=-327/538,

1-10=-437/593

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II: Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 5-1-12 to 7-3-11, Interior (1) 7-3-11 to 12-6-4, Exterior(2E) 12-6-4 to 16-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 7 and 221 lb uplift at joint 11.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

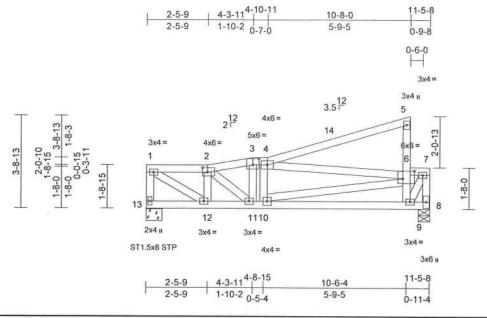
Philip J. O'Regan PE No. S\$126 MiTek Inc. DBA MiTek USA Fl. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply		
3698546	D5	Roof Special	1	1	Job Reference (optional)	T32098918

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:23 ID:NXeRIBf2pMOFYdKMvysmAryJfV?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWfCDoi7J4zJC?f

Page: 1



Scale = 1:46.6

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

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	0.45	Vert(LL)	-0.03	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.07	9-10	>999	240	AMA ES	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	9-10	>999		Weight: 73 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 7-9-1 oc

bracing

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

Max Horiz 13=222 (LC 7)

Max Uplift 8=-262 (LC 10), 13=-224 (LC 6)

Max Grav 8=447 (LC 1), 13=447 (LC 1)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum Tension

1-13=-447/380, 1-2=-622/415, 2-3=-803/542, 3-4=-791/546, 4-5=-114/43, 6-9=-338/356,

5-6=-196/247, 6-7=-261/237, 7-8=-575/416 12-13=-202/266, 11-12=-454/777

BOT CHORD 10-11=-561/938, 9-10=-153/330, 8-9=-28/48

1-12=-496/666, 2-12=-383/341,

2-11=-136/219, 3-11=-190/136,

4-10=-291/394, 4-6=-803/615,

6-10=-454/650, 7-9=-346/524

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 2-5-9, Interior (1) 2-5-9 to 7-6-4, Exterior(2E) 7-6-4 to 11-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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. All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 13 and 262 lb uplift at joint 8.

LOAD CASE(S) Standard

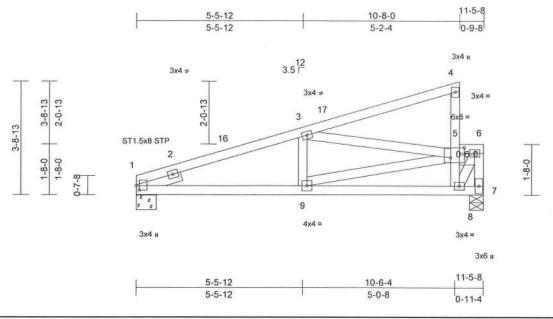
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Job	Truss	Truss Type	Qty	Ply		
3698546	D6	Half Hip	6	1.	Job Reference (optional)	T32098919

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:23 ID:oOr U0ub6WwPvisC49DS 2vJfUh-RfC?PsB70Hg3NSgPgnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.1

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

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	0.42	Vert(LL)	-0.02	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.04	8-9	>999	240	TO A TABLE COLORS	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	9	>999	240	Weight: 62 lb	FT = 20%

LUMBER

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

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

BRACING

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

Rigid ceiling directly applied or 7-1-14 oc BOT CHORD

bracing.

REACTIONS (size) 1=0-7-11, 7=0-5-8 Max Horiz 1=283 (LC 10)

Max Uplift 1=-226 (LC 6), 7=-268 (LC 10)

Max Grav 1=466 (LC 1), 7=439 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES

Tension 1-3=-794/624, 3-4=-105/38, 5-8=-405/448,

TOP CHORD

4-5=-166/218, 5-6=-258/262, 6-7=-524/431

BOT CHORD 1-9=-681/905, 8-9=-210/343, 7-8=-27/50 WEBS

3-9=-47/165, 3-5=-774/722, 5-9=-484/578, 6-8=-426/533

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-3-5, Exterior(2E) 6-3-5 to 11-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 1 and 268 lb uplift at joint 7.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

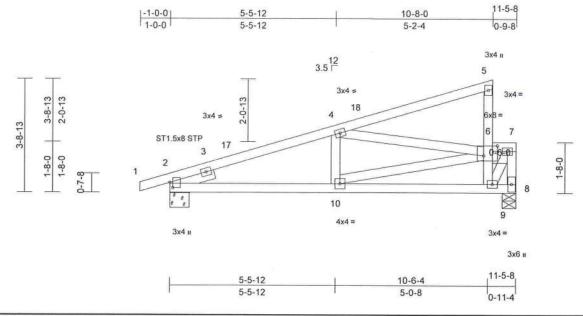
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	D7	Half Hip	3	1	Job Reference (optional)	T32098920

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:24 ID:CE3Yhs88OfRaLmN2FMa8oGyJfUN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.1

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

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	0.38	Vert(LL)	-0.02	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.04	9-10	>999	240	00000000	(CENTRAL PROPERTY)
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	WCC SHICE	Wind(LL)	0.03	9-10	>999	Shinthark	Weight: 64 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.3 -- 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 7-5-15 oc

bracing.

REACTIONS 2=0-7-11, 8=0-5-8 (size)

Max Horiz 2=298 (LC 10)

Max Uplift 2=-303 (LC 6), 8=-265 (LC 10) Max Grav 2=530 (LC 1), 8=435 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/17, 2-4=-783/561, 4-5=-105/38,

6-9=-401/427, 5-6=-167/222, 6-7=-257/257,

BOT CHORD 2-10=-615/894, 9-10=-204/342, 8-9=-27/50

4-10=-48/169, 4-6=-762/653, 6-10=-422/567,

7-9=-417/531

WEBS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-3-5, Exterior(2E) 6-3-5 to 11-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 8 and 303 lb uplift at joint 2.

LOAD CASE(S) Standard

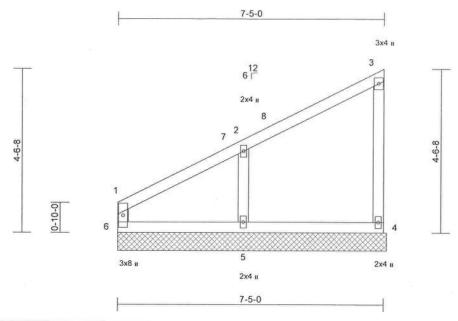
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Job	Truss	Truss Type	Qty	Ply		
3698546	D8	Monopitch Supported Gable	1	1	Job Reference (optional)	T32098921

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:24 ID:Jey?wo7Sbjy?GTt4JJxa6wyJcSj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Sca	le	=	1	:32	

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)	n/a	2:	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(TL)	n/a	*	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	1501150					100000	Weight: 33 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

4=7-6-0, 5=7-6-0, 6=7-6-0 REACTIONS (size)

Max Horiz 6=254 (LC 7)

Max Uplift 4=-63 (LC 7), 5=-278 (LC 10), 6=-9

(LC 6)

Max Grav 4=126 (LC 1), 5=338 (LC 1), 6=153

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-6=-118/68, 1-2=-228/279, 2-3=-136/160,

3-4=-163/176

BOT CHORD 5-6=-87/140, 4-5=-87/140

WEBS 2-5=-396/633

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 4-3-4, Corner(3E) 4-3-4 to 7-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 9 lb uplift at joint 6, 63 lb uplift at joint 4 and 278 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58126 MiTeh Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	E1	Roof Special	4	1	Job Reference (optional)	T32098922

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:24 ID:3aqflfdam919OXr8rAGuDkyJhj2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

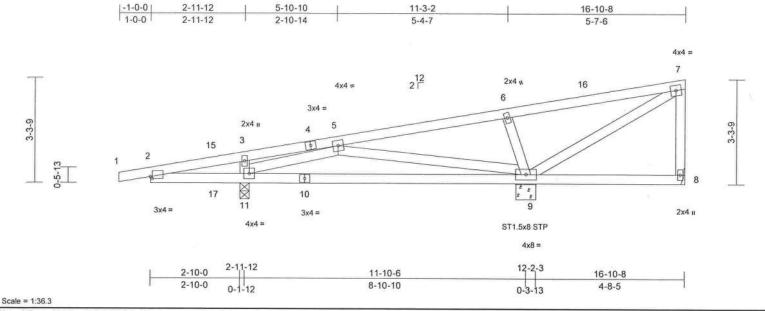


Plate Offsets (X, Y): [2:0-0-11,0-0-12]

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	0.34	Vert(LL)	-0.13	9-11	>861	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.55	Vert(CT)	-0.25	9-11	>440	240	1021/070707	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	1971 AMBOOK	Wind(LL)	-0.06	9-11	>999	100000	Weight: 81 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 8= Mechanical, 9=0-7-11, 11=0-3-8

Max Horiz 11=184 (LC 9)

Max Uplift 8=-50 (LC 6), 9=-343 (LC 10),

11=-496 (LC 6)

Max Grav 8=91 (LC 1), 9=637 (LC 1), 11=670

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/10, 2-3=-1499/524, 3-5=-1435/521,

5-6=-73/85, 6-7=-97/214, 7-8=-87/114

BOT CHORD 2-11=-500/1497, 9-11=-187/410, 8-9=-63/83 WEBS

5-9=-345/195, 6-9=-431/350, 7-9=-191/165,

3-11=-208/371, 5-11=-724/1144

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 13-8-12, Exterior(2E) 13-8-12 to 16-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 11 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 50 lb uplift at joint 8, 343 lb uplift at joint 9 and 496 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regau PE No. S8126 MiTek Inc. DBA MiTek USA Fl. Cert 6634 16923 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	E2	Half Hip	2	1	Job Reference (optional)	T32098923

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:25 ID:rHX5WuNvrPAjgfrqHQsf35yJhgo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

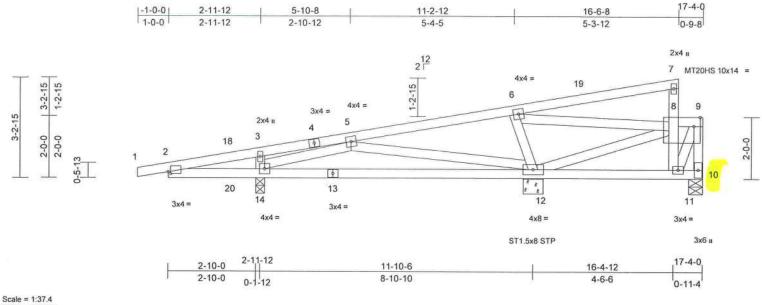


Plate Offsets (X, Y): [2:0-0-15,0-0-12], [8:0-2-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.25	TC	0.44	Vert(LL)		12-14	>835		MT20	
				1.00	5-5-5-5				377737			244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.26	12-14	>429	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	-0.06	12-14	>999	240	Weight: 92 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

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

REACTIONS (size) 10=0-5-8, 12=0-7-11, 14=0-3-8

Max Horiz 14=211 (LC 10)

Max Uplift 10=-744 (LC 10), 12=-348 (LC 10), 14=-495 (LC 6)

Max Grav

10=1696 (LC 18), 12=671 (LC 1),

14=667 (LC 24)

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

Tension

TOP CHORD 1-2=0/10, 2-3=-1502/530, 3-5=-1440/527,

5-6=-107/139, 6-7=-69/49, 8-11=-41/86,

7-8=-142/168, 8-9=-25/78, 9-10=-1893/1267 2-14=-506/1500, 12-14=-249/380,

BOT CHORD

11-12=-45/40, 10-11=-30/54

WEBS 5-12=-346/235, 6-12=-496/385,

6-8=-168/303, 8-12=-228/220, 9-11=-96/8,

3-14=-199/356, 5-14=-730/1125

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 13-4-12, Exterior(2E) 13-4-12 to 17-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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 6)
- 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 744 lb uplift at joint 10, 348 lb uplift at joint 12 and 495 lb uplift at joint 14.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1892 lb down and 1161 lb up at 17-2-4 on top 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: 1-7=-60, 8-9=-60, 10-15=-20

Concentrated Loads (lb)

Vert: 9=-1300

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. S\$126 MiTek Inc. JBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

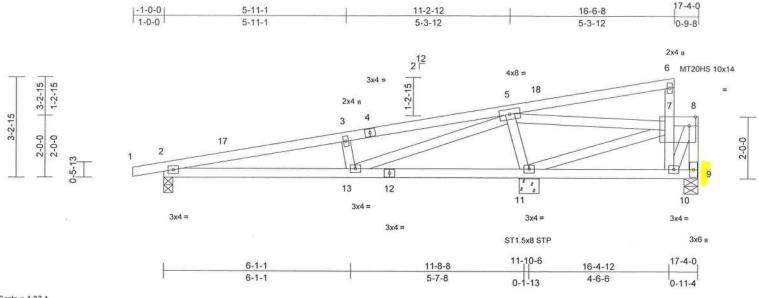
November 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	E3	Half Hip	2	1	Job Reference (optional)	T32098924

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:25 ID:oHpPLSd8MMGz8eopNGj2G1yJhfA-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.4

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

	1											
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	0.43	Vert(LL)	-0.04	13-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.09	13-16	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.01	2	n/a	n/a	A35 A35 SA (185.)	1.000.00.00
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)		13-16	>999	110.00	Weight: 88 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 2=0-3-8, 9=0-5-8, 11=0-7-11

Max Horiz 2=211 (LC 10)

Max Uplift 2=-255 (LC 6), 9=-720 (LC 11),

11=-524 (LC 6)

2=421 (LC 24), 9=1662 (LC 18), Max Grav

11=1003 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/10, 2-3=-776/357, 3-5=-774/396,

5-6=-63/57, 7-10=0/116, 6-7=-144/180,

7-8=-40/63, 8-9=-1839/1208

BOT CHORD 2-13=-471/888, 11-13=-383/203, 10-11=-31/51, 9-10=-31/51

WEBS 3-13=-363/287, 5-13=-650/1324,

5-11=-823/532, 5-7=-271/617, 7-11=-534/246,

8-10=-104/68

NOTES

Unbalanced roof live loads have been considered for

Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-1-13, Exterior(2E) 12-1-13 to 17-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 720 lb uplift at joint 9, 255 lb uplift at joint 2 and 524 lb uplift at joint 11.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1892 Ib down and 1161 lb up at 17-2-4 on top 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: 1-6=-60, 7-8=-60, 9-14=-20

Concentrated Loads (lb) Vert: 8=-1300 (F)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

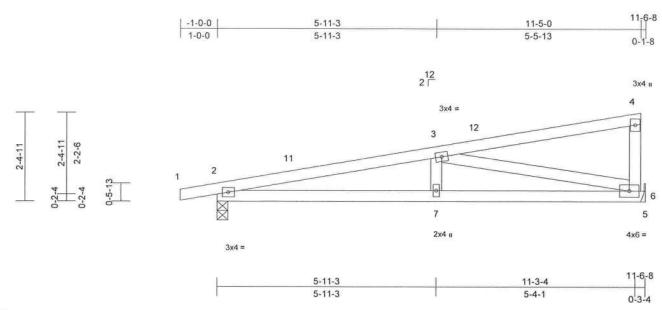
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply		
3698546	E4	Roof Special	6	1	Job Reference (optional)	T32098925

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:25 ID:vF2TxGNzIvdx7QhneMr7wbyJhfV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.1

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	0.47	Vert(LL)	-0.05	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.10	7-10	>999	240	100 100 100 100 100 100 100 100 100 100	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.07	7-10	>999	240	Weight: 48 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

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

Max Horiz 2=128 (LC 9)

Max Uplift 2=-307 (LC 6), 6=-237 (LC 6)

Max Grav 2=513 (LC 1), 6=454 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/10, 2-3=-1362/974, 3-4=-114/97,

4-6=-177/212

BOT CHORD 2-7=-949/1422, 6-7=-949/1422, 5-6=0/0

WEBS 3-7=0/216, 3-6=-1334/967

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 7-0-5, Exterior(2R) 7-0-5 to 11-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 237 lb uplift at joint 6 and 307 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

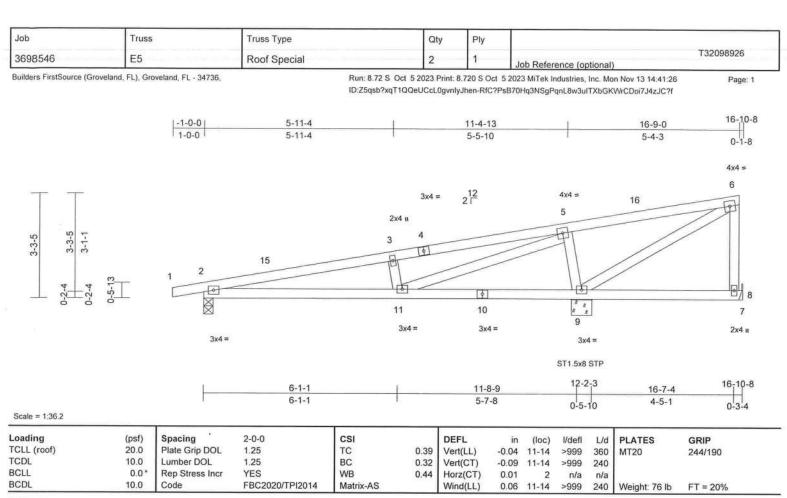
LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Phillp J. O'Regan PE Nn.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017







LUMBER

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

2x4 SP No.3 WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=0-3-8, 8= Mechanical, 9=0-7-11

Max Horiz 2=182 (LC 9)

Max Uplift 2=-260 (LC 6), 8=-40 (LC 19),

9=-532 (LC 10)

Max Grav 2=433 (LC 1), 8=24 (LC 6), 9=1001

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/10, 2-3=-848/412, 3-5=-802/418, TOP CHORD

5-6=-216/566 6-8=0/113

2-11=-429/955, 9-11=-347/225, 8-9=-58/85, BOT CHORD

7-8=0/0 WEBS

3-11=-365/286, 5-11=-618/1298,

5-9=-678/451, 6-9=-598/286

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 13-7-4, Exterior(2E) 13-7-4 to 16-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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, 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 40 lb uplift at joint 8, 260 lb uplift at joint 2 and 532 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

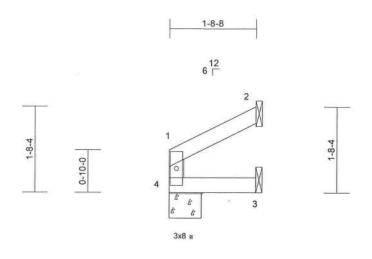
LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply		
3698546	EJ2	Jack-Open	1	1	Job Reference (optional)	T32098927

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:26 ID:o_kngenOKpDZCWrPraviApyJcQa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



ST1.5x8 STP

1-8-8

Scale = 1:22.7

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	0.10	Vert(LL)	0.00	3-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	3-4	>999	180	Library (Cooks)	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR				-		3311	Weight: 6 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or 1-8-8 oc purlins, except end verticals

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

REACTIONS (size)

2= Mechanical, 3= Mechanical, 4=0-7-11

Max Horiz 4=48 (LC 7)

Max Uplift 2=-55 (LC 10), 3=-5 (LC 10), 4=-5

(LC 10)

Max Grav 2=44 (LC 1), 3=30 (LC 3), 4=62

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-55/50, 1-2=-50/29

BOT CHORD 3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 4 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 5 lb uplift at joint 4, 5 lb uplift at joint 3 and 55 lb uplift at joint 2.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Page: 1

Philip J. O'Regan PE No.58126 Mil'ek Inc. DBA Mil'ek USA FL Cert 6634 16033 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

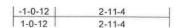
🔈 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

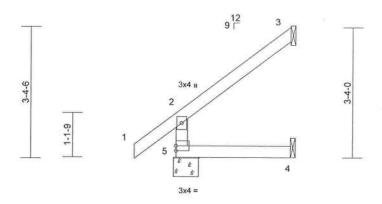
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	EJ3	Jack-Open	8	1	Job Reference (optional)	T32098928

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:26 ID:S8WvkNEF66xjcFyj7DX76FyK1OC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





ST1.5x8 STP

Scale = 1:29.6

2-11-4

Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI TC BC	0.44 0.26	DEFL Vert(LL) Vert(CT)	in 0.01 0.01	(loc) 4-5 4-5	l/defl >999 >999		PLATES MT20	GRIP 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR						3015333	Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD

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

REACTIONS (size)

3= Mechanical, 4= Mechanical, 5=0-7-11

Structural wood sheathing directly applied or

Max Horiz 5=152 (LC 10)

Max Uplift 3=-118 (LC 10), 4=-20 (LC 10),

5=-29 (LC 10)

Max Grav 3=93 (LC 18), 4=51 (LC 3), 5=198

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-5=-170/198, 1-2=0/43, 2-3=-129/75

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- 6) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5, 118 lb uplift at joint 3 and 20 lb uplift at joint 4.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.88126 Mi Tek Inc. DBA MiTek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Bate:

November 14,2023

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

Design valid for use only vising parameters and READ ROTES ON THIS ARD INCLUDES INTERNAL PROPERTY.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



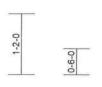
Job	Truss	Truss Type	Qty	Ply		
3698546	EJ4	Jack-Open	1	1	Job Reference (optional)	T32098929

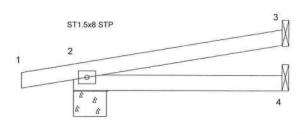
Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:27 ID:GLzh9GtrEXYrW3ag4Rlyk3yJg81-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



2 12







3x4 =

E	4-0-0	
	4-0-0	

Scale = 1:22.1

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

The second secon												
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	0.28	Vert(LL)	-0.01	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.02	4-7	>999	240	I A SAN CANADA	THE STATE OF THE S
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.02	4-7	>999	11110000	Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins.

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

bracing.

REACTIONS (size)

2=0-7-11, 3= Mechanical, 4=

Mechanical

Max Horiz 2=53 (LC 6)

Max Uplift 2=-158 (LC 6), 3=-83 (LC 10) Max Grav

2=225 (LC 1), 3=101 (LC 1), 4=71

(LC 3)

(lb) - Maximum Compression/Maximum

Tension

1-2=0/10, 2-3=-84/20

TOP CHORD BOT CHORD 2-4=-53/95

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 83 lb uplift at joint 3 and 158 lb uplift at joint 2.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

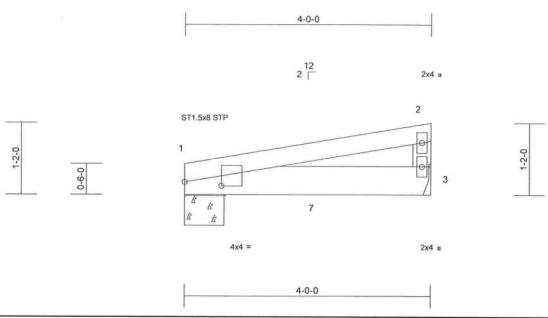
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		or Scotting Court of Charles
3698546	EJ4G	Jack-Closed Girder	1	1	Job Reference (optional)	T32098930

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:27 ID:Hy7FZ86qDsPNlkNG2saltayJg6R-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



				-
Plate Offsets	(X	Y):	[1:0-7-2.0-0-12]	1

	Secretary And A. P. Constitution and											
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	0.37	Vert(LL)	-0.02	3-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.04	3-6	>999	240		And the second second
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP	7652	Wind(LL)	0.03	3-6	>999	1010	Weight: 16 lb	FT = 20%

LUMBER

Scale = 1:18.8

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

1=0-7-11, 3= Mechanical Max Horiz 1=45 (LC 7)

Max Uplift 1=-227 (LC 4), 3=-253 (LC 8)

Max Grav 1=460 (LC 1), 3=506 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-395/188, 2-3=-136/87

BOT CHORD 1-3=-228/461

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 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 227 lb uplift at joint 1 and 253 lb uplift at joint 3.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 658 lb down and 318 lb up at 2-0-12 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: 1-2=-60, 3-4=-20 Concentrated Loads (lb) Vert: 7=-658 (B)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

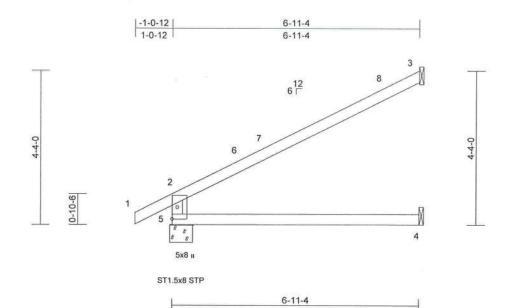
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		rimon Hermander
3698546	EJ7D	Jack-Open	2	1	Job Reference (optional)	T32098931

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:27 ID:16srjFyMn4wTMMXL2aHvd8yJg0A-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Sca	le	=	1	:32	2.5

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	0.80	Vert(LL)	-0.09	4-5	>869	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.21	4-5	>393	240		CONTROL TO SEC.
BCLL	0.0*	Rep Stress Incr	YES	WB	200000000	Horz(CT)	-0.09	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	327.5	Wind(LL)	0.12	4-5	>659		Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

3= Mechanical, 4= Mechanical,

Max Horiz 5=214 (LC 10)

Max Uplift 3=-195 (LC 10), 5=-131 (LC 10)

Max Grav 3=189 (LC 1), 4=125 (LC 3), 5=348

(LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-287/359, 1-2=0/32, 2-3=-184/110

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
 Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat.
 II; Exp C; Enclosed; MWFRS (envelope) exterior zone
 and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to
 2-8-5, Exterior(2R) 2-8-5 to 6-11-4 zone; cantilever left
 and right exposed; end vertical left and right exposed;C C for members and forces & MWFRS for reactions
 shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 5 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 131 lb uplift at joint 5 and 195 lb uplift at joint 3.

 This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

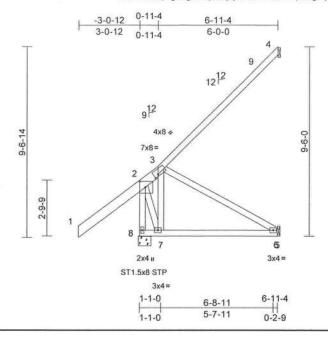
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Job	Truss	Truss Type	Qty	Ply		
3698546	EJ7M	Jack-Open	7	1	Job Reference (optional)	T32098932

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:27 ID:V9Vvzsi7pPgwCgzTF5pubJyJjwz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58

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

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	0.79	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.07	6-7	>999	240	1.50015.15309	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.00	6-7	>999	240	Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3 *Except* 8-2:2x4 SP 2850F WEBS

2.0E or 2x4 SP M 31

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 4= Mechanical, 6= Mechanical,

8=0-7-11

Max Horiz 8=457 (LC 10)

Max Uplift 4=-249 (LC 10), 6=-181 (LC 10)

Max Grav 4=204 (LC 18), 6=176 (LC 8),

8=508 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-577/116, 1-2=0/116, 2-3=-184/145,

3-4=-300/163 **BOT CHORD**

7-8=-657/260, 6-7=-492/394, 5-6=0/0 3-7=-439/107, 3-6=-446/557, 2-7=0/522

WERS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 1-0-0, Exterior(2E) 1-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 8 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 249 lb uplift at joint 4 and 181 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

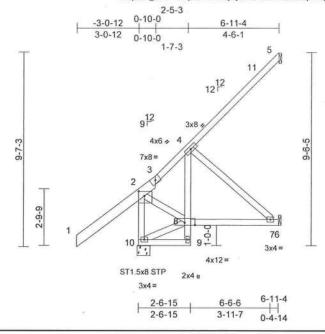
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply	
3698546	EJ7MT	Jack-Open	5	1	Job Reference (optional)

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:28 ID:q8OR_5vuFYhBqaODFWE0yoyJiM0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57

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

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	0.69	Vert(LL)	-0.02	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.04	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.02	7-8	>999	240	Weight: 60 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-5:2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* 9-4:2x4 SP No.3

WEBS 2x4 SP No.3 *Except* 10-2:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 6= Mechanical,

10=0-7-11

Max Horiz 10=458 (LC 10)

Max Uplift 5=-179 (LC 10), 6=-253 (LC 10) Max Grav 5=154 (LC 18), 6=215 (LC 8),

10=508 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 2-10=-470/400, 1-2=0/116, 2-3=-200/

2-10=-470/400, 1-2=0/116, 2-3=-200/22, 3-4=-184/45, 4-5=-229/118

BOT CHORD 9-10=-83/16, 8-9=-27/48, 4-8=-395/191,

7-8=-439/357, 6-7=0/0

WEBS 2-8=0/246, 8-10=-552/298, 4-7=-472/581

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.

- 5) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: , 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 179 lb uplift at joint 5 and 253 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

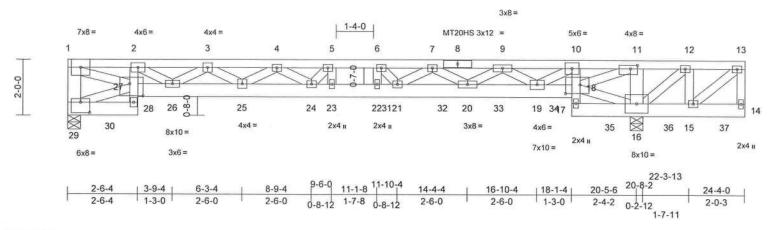


Job	Truss	Truss Type	Qty	Ply		
3698546	FG1	Roof Special Girder	1	3	Job Reference (optional)	T32098934

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:28 ID:EZUNnsQILEi_aAKBUTwpdyJfQ7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

1	2-4-8	5-0-4	7-6-4	9-6-0	11-1-8	13-1-4	15-7-4	18-3-0	20-5-6	22-3-13	24-4-0	î
	2-4-8	2-7-12	2-6-0	1-11-12	1-7-8	1-11-12	2-6-0	2-7-12	2-2-6	1-10-7	2-0-3	7



Scale = 1:41.4

Plate Offsets (X, Y):	[11:0-3-0,0-1-8],	[18:0-6-4,0-3-12]	[27:0-5-12,0-5-4]	[29:0-4-0,0-4-8]
-----------------------	-------------------	-------------------	-------------------	------------------

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.61	22-23	>401	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.90	22-23	>270	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.28	16	n/a	n/a	Parallel Market (A	
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.58	22-23	>421	240	Weight: 445 lb	FT = 20%

LUMBER

WEBS

TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31 **BOT CHORD** 2x6 SP No.2 *Except* 28-2,10-17:2x4 SP No.1, 27-18:2x6 SP M 26

2x4 SP No.3 *Except* 29-1,11-16:2x6 SP No.2, 27-1,18-11:2x4 SP No.1

BRACING

TOP CHORD

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals

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

bracing, Except:

6-0-0 oc bracing: 17-18,15-16.

REACTIONS (size) 16=0-5-8, 29=0-5-8 Max Horiz 29=68 (LC 7)

Max Uplift 16=-4341 (LC 5), 29=-3524 (LC 4)

Max Grav 16=9273 (LC 1), 29=7589 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-11356/5371, 2-3=-15783/7434,

3-4=-22956/10853, 4-5=-27284/13105, 5-6=-28653/13926, 6-7=-28211/13878, 7-9=-23587/11737, 9-10=-14656/7438,

10-11=-8789/4584, 11-12=-882/2101,

12-13=-297/678, 13-14=-79/222

28-29=-846/1741, 27-28=-410/739,

2-27=-3199/1461, 26-27=-6052/12730,

25-26=-9516/20131, 24-25=-12289/25767

23-24=-13960/28653, 22-23=-13960/28653

21-22=-13960/28653, 20-21=-13163/26604, 19-20=-9953/19876, 18-19=-5363/10284

17-18=-222/106, 10-18=-3817/1802,

16-17=-452/795, 15-16=-678/290,

14-15=-31/31

WEBS

12-15=-225/635, 13-15=-931/382, 1-29=-6335/2908, 11-16=-5675/2764

27-29=-2797/1361, 1-27=-6127/12981,

16-18=-3075/1356, 2-26=-1770/3787,

10-19=-2634/5422, 3-26=-5478/2588,

9-19=-6578/3134, 3-25=-1735/3559, 9-20=-2299/4676, 4-25=-3542/1772,

7-20=-3801/1762, 4-24=-1077/1911,

7-21=-952/2026, 5-24=-2262/1365,

6-21=-739/950, 5-23=-664/928,

6-22=-339/305, 11-18=-5787/11657,

12-16=-1887/775

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 2 rows

staggered at 0-7-0 oc.

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

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. 2x6 -3 rows staggered at 0-4-0 oc, Except member 11-16 2x6

2 rows staggered at 0-9-0 oc.

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

Unbalanced roof live loads have been considered for

this design.

Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed : end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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.
- All plates are 3x4 MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads 10) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4341 lb uplift at joint 16 and 3524 lb uplift at joint 29.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1347 lb down and 544 lb up at 0-0-0 on top chord, and 1071 lb down and 617 lb up at 1-6-4, 1057 lb down and 686 Ib up at 11-5-12, 351 lb down and 242 lb up at 13-5-12, 364 lb down and 247 lb up at 15-5-12, 364 lb down and 247 lb up at 17-5-12, 364 lb down and 191 lb up at 19-5-12, and 779 lb down and 296 lb up at 21-7-4, and 237 lb down and 67 lb up at 23-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

November 14,2023

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org)

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

16023 Swingley Ridge Rd Chesterfield, MO 63017 Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
3698546	FG1	Roof Special Girder	1	3	Job Reference (optional)	T32098934

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:28 ID:EZUNnsQILEi_aAKBUTwpdyJfQ7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

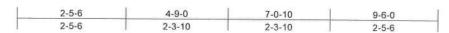
LOAD CASE(S) Standard

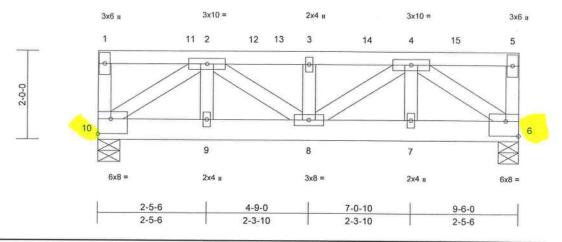
Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 1-13=-450, 28-29=-10, 18-27=-10, 14-17=-10 Concentrated Loads (lb) Vert: 1=-1300 (F), 30=-1071 (F), 31=-1057 (F), 32=-351 (F), 33=-364 (F), 34=-364 (F), 35=-364 (F), 36=-631 (F), 37=-237 (F)

Job	Truss	Truss Type	Qty	Ply		
3698546	FG2	Flat Girder	1	2	Job Reference (optional)	T32098935

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:29 ID:ER9i2XnrLGJEeTsssEVtAzyJdhw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:26.1

Plate Offsets (X, Y): [6:Edge,0-4-0], [10:Edge,0-4-0]

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.04	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC		Vert(CT)	-0.05	8	>999	240		2111100
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	The state of the s	0.02	6	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS	5010	Wind(LL)	0.03	8	>999	100000	Weight: 119 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

5-3-2 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 6=0-5-8, 10=0-6-0

Max Horiz 10=92 (LC 5)

Max Uplift 6=-1173 (LC 5), 10=-1435 (LC 4) Max Grav 6=2783 (LC 1), 10=3461 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-10=-1246/522, 1-2=-88/61,

2-3=-4076/1698, 3-4=-4076/1698.

4-5=-136/82, 5-6=-477/211

BOT CHORD 9-10=-1325/3071, 8-9=-1325/3071,

7-8=-1379/3225, 6-7=-1379/3225 WEBS

4-6=-3781/1591, 2-9=-50/45

2-10=-3651/1525, 2-8=-529/1231,

3-8=-1328/576, 4-8=-438/1041, 4-7=-75/61

NOTES

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

Top chords connected as follows: 2x4 - 2 rows staggered at 0-3-0 oc.

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

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1435 lb uplift at joint 10 and 1173 lb uplift at joint 6.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1040 lb down and 438 lb up at 0-1-12, 1003 lb down and 428 lb up at 2-0-12, 1003 lb down and 428 lb up at 4-0-12, 90 lb down and 97 lb up at 6-0-12, 1003 lb down and 428 lb up at 6-0-12, and 90 lb down and 97 lb up at 8-0-12, and 1003 lb down and 428 lb up at 8-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft) Vert: 1-5=-100, 6-10=-10

Concentrated Loads (lb)

Vert: 1=-1040 (B), 11=-1003 (B), 13=-1003 (B), 14=-1093 (F=-90, B=-1003), 15=-1093 (F=-90, B=-1003)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

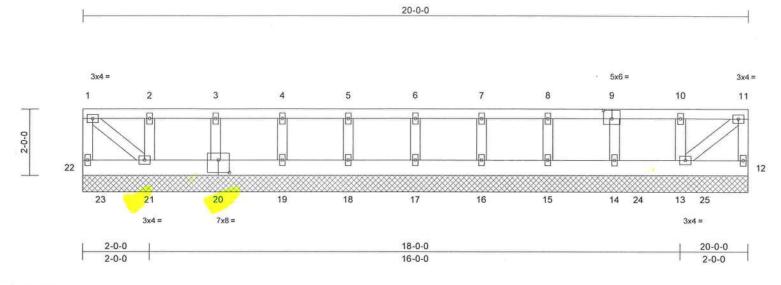
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



					Toob Noteranda (optional)	
3698546	FG3	Flat Girder	1	2	Job Reference (optional)	A 577777777
				_		T32098936
Job	Truss	Truss Type	Qty	Ply		

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:29 ID:yjPd_0xRzSHmX3d7whi9W?yJdgR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.8

Plate Offsets (X, Y):	[9:0-3-0,0-3-0],	[20:0-4-0,0-4-8]		-nv							11	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(TL)	n/a	12.0	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS						145,000	Weight: 206 lb	FT = 20%

 LUMBER
 2x4 SP No.2

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x6 SP No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

 BRACING

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

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

bracing, Except: 10-0-0 oc bracing: 21-22,20-21,12-13.

REACTIONS (size) 12=20-0-0, 13=20-0-0, 14=20-0-0, 15=20-0-0, 16=20-0-0, 17=20-0-0,

18=20-0-0, 19=20-0-0, 20=20-0-0, 21=20-0-0, 22=20-0-0

Max Horiz 22=92 (LC 5)

Max Uplift 12=-125 (LC 5), 13=-1045 (LC 4), 14=-1128 (LC 5), 15=-389 (LC 21),

16=-423 (LC 5), 17=-385 (LC 21), 18=-387 (LC 4), 19=-389 (LC 5), 20=-1383 (LC 4), 21=-694 (LC 5),

22=-293 (LC 4)

Max Grav 12=299 (LC 15), 13=2057 (LC 1), 14=2164 (LC 1), 15=738 (LC 15), 16=985 (LC 1), 17=903 (LC 1), 18=922 (LC 1), 19=929 (LC 1),

20=2580 (LC 1), 21=1474 (LC 1), 22=701 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-345/185, 1-2=-39/26, 2-3=-39/26, 3-4=-18/18, 4-5=-18/18, 5-6=-18/18, 6-7=-18/18, 7-8=-18/18, 8-10=-38/62,

10-11=-38/62, 11-12=-269/126 BOT CHORD 21-22=-80/79, 19-21=-51/47, 18-19

RD 21-22=-80/79, 19-21=-51/47, 18-19=-51/47, 17-18=-51/47, 16-17=-51/47, 15-16=-51/47, 14-15=-51/47, 13-14=-85/67, 12-13=-31/36

WEBS

2-21=-937/417, 3-20=-894/395, 4-19=-902/398, 5-18=-900/397, 6-17=-898/397, 7-16=-907/400, 8-15=-872/385, 9-14=-895/396, 10-13=-968/429, 1-21=-53/48, 11-13=-116/66

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 0-6-0 oc.

Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-8-0 oc.

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

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

Wind: ASCE 7-16; Vult=140mph (3-second gust)
 Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat.
 II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and

right exposed; Lumber DOL=1.60 plate grip DOL=1.60

4) 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.

- 6) Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
 Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.

unless otherwise indicated.

 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) All bearings are assumed to be SP No.2
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 22, 125 lb uplift at joint 12, 1383 lb uplift at joint 20, 389 lb uplift at joint 19, 387 lb uplift at joint 18, 385 lb uplift at joint 17, 423 lb uplift at joint 16, 389 lb uplift at joint 15, 1128 lb uplift at joint 14, 694 lb uplift at joint 21 and 1045 lb uplift at joint 13.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 454 lb down and 148 lb up at 0-6-8, 379 lb down and 218 lb up at 1-11-4, 1696 lb down and 1009 lb up at 3-11-4, and 1696 lb down and 1009 lb up at 16-8-12, and 379 lb down and 218 lb up at 18-8-12 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=1.00, Plate Increase=1.00

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

MiTek

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314 434 1200 / MITek-US com

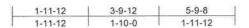
Job	Truss	Truss Type	Qty	Ply		- 2001 (1990) (2000)
3698546	FG3	Flat Girder	1	2	Job Reference (optional)	T32098936

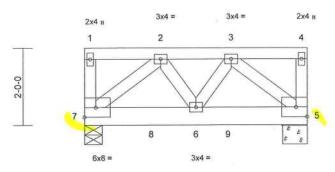
Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:29 ID:yjPd_0xRzSHmX3d7whi9W?yJdgR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

Uniform Loads (lb/ft) Vert: 1-11=-450 (F=-350), 12-22=-10 Concentrated Loads (lb) Vert: 20=-1696 (B), 21=-379 (B), 23=-454 (B), 24=-1696 (B), 25=-379 (B)

Job	Truss	Truss Type	Qty	Ply	mentalities and the spring formation
3698546	FG4	Flat Girder	1	2	Job Reference (optional)

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:30 ID:oa19wC3rXXSnf64xEesRf6yJddh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





ST1.5x8 STP

6x8 =

2-10-12	5-9-8
2-10-12	2-10-12

Scale = 1:30

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.01	6-7	>999	240	Weight: 73 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-9-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 7=-92 (LC 6)

Max Uplift 5=-924 (LC 5), 7=-951 (LC 4) Max Grav 5=2131 (LC 1), 7=2189 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

BOT CHORD

1-7=-459/200, 1-2=-34/26, 2-3=-1933/833,

3-4=-34/26, 4-5=-459/200

6-7=-798/1736, 5-6=-783/1736

2-6=-183/400, 2-7=-2320/1020, WEBS

3-6=-183/400, 3-5=-2320/1019

NOTES

1) 2-ply truss to be connected together with 10d

(0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc.

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- 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 951 lb uplift at joint 7 and 924 lb uplift at joint 5.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 483 lb down and 222 lb up at 1-8-12, and 483 lb down and 222 lb up at 3-8-12 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=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 1-4=-600, 5-7=-10 Concentrated Loads (lb)

Vert: 8=-483 (B), 9=-483 (B)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Page: 1

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

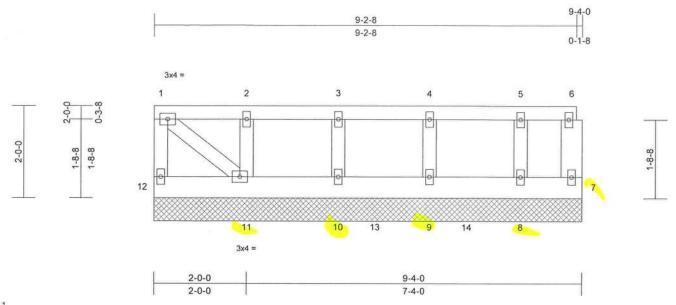
November 14,2023

314.434.1200 / MiTek-US.com

3698546	FG5	Flat Girder	1	2	Job Reference (optional)	T32098938
Job	Truss	Truss Type	Qty	Ply		

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:30 ID:2TIzMnpoN4jDYOgpEbzR1hyJdbQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	n/a	2 5	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(TL)	n/a		n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS	X-Sect-Oct III.	100000000000000000000000000000000000000				Connec	Weight: 101 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 6-7:2x6 SP No.2 WEBS

2x4 SP No.3 OTHERS

BRACING

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

bracing, Except:

10-0-0 oc bracing: 11-12.

REACTIONS (size) 7=9-4-0, 8=9-4-0, 9=9-4-0, 10=9-4-0, 11=9-4-0, 12=9-4-0

Max Horiz 12=-92 (LC 4)

7=-286 (LC 5), 8=-444 (LC 4), 9=-686 (LC 5), 10=-768 (LC 4), Max Uplift 11=-667 (LC 5), 12=-425 (LC 4)

Max Grav 7=552 (LC 1), 8=979 (LC 1),

9=1473 (LC 1), 10=1611 (LC 1),

11=1378 (LC 1), 12=797 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-12=-327/181, 1-2=-29/25, 2-3=-29/25,

3-4=-29/25, 4-5=-29/25, 5-6=-29/25, 6-7=-160/71

BOT CHORD 11-12=-77/70, 10-11=-39/30, 9-10=-39/30,

8-9=-39/30 7-8=-39/30 2-11=-940/416, 3-10=-886/391.

WEBS

4-9=-933/412, 5-8=-762/337, 1-11=-75/70

NOTES

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

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

staggered at 0-9-0 oc.

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) All bearings are assumed to be SP No.2.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 425 lb uplift at joint 12, 286 lb uplift at joint 7, 768 lb uplift at joint 10, 686 lb uplift at joint 9, 444 lb uplift at joint 8 and 667 lb uplift at joint 11.

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 448 lb down and 241 lb up at 0-1-12, 444 lb down and 244 lb up at 2-3-4, 444 lb down and 244 lb up at 4-3-4, 444 lb down and 244 lb up at 4-9-12, and 444 lb down and 244 lb up at 6-9-12, and 447 lb down and 242 lb up at 9-1-4 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=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-6=-450, 7-12=-10

Concentrated Loads (lb) Vert: 12=-448 (F), 7=-447 (F), 10=-444 (F), 11=-444 (F), 13=-444 (F), 14=-444 (F)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017



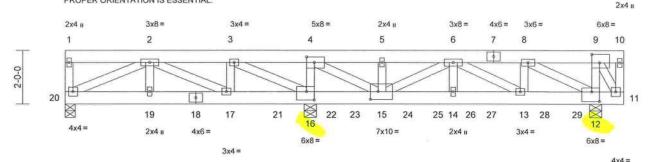
Job	Truss	Truss Type	Qty	Ply	
3698546	FG6	Flat Girder	1	2	Job Reference (optional)

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:31 ID:9EBKjXi8niAgZjiVXWDiYOyJdWP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



THIS TRUSS IS NOT SYMMETRIC PROPER ORIENTATION IS ESSENTIAL.



3-1-12	6-1-12	9-1-12	11-9-13	14-5-14	17-1-14	20 -19-9-15 20-0
3-1-12	3-0-0	3-0-0	2-8-1	2-8-1	2-8-1	2-8-1 0-2-1
						0-2-

Scale = 1:43.1

Plate Offsets (X, Y): [4:0-3-8,0-2-8], [9:0-3-8,0-3-12], [12:0-3-8,0-4-4], [15:0-3-8,0-3-8], [16:0-3-8,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	100000000000000000000000000000000000000	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.07	14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.09	14	>999	240	DECEMBER STATE	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	-0.06	14	>999	240	Weight: 285 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except*

8-12,15-4,15-6,13-6:2x4 SP No.2

BRACING

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

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

bracing.

REACTIONS (size) 12=0-5-8, 16=0-5-8, 20=0-4-8

Max Horiz 20=87 (LC 7)

Max Uplift 12=-2112 (LC 5), 16=-2664 (LC 9),

20=-477 (LC 6)

12=5726 (LC 15), 16=7075 (LC Max Gray

15), 20=215 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-20=-130/69, 1-2=-17/31, 2-3=-531/2157,

3-4=-1132/3080, 4-5=-3908/1277,

5-6=-3908/1277, 6-8=-5829/2014,

8-9=-561/218, 9-10=-30/22, 10-11=-149/416

BOT CHORD 19-20=-803/148, 17-19=-803/148,

16-17=-2140/565, 15-16=-3063/1138

14-15=-2501/7356, 13-14=-2501/7356,

12-13=-2005/5846, 11-12=-210/578

4-16=-5792/2134, 9-12=-1887/832, 9-11=-1156/397, 8-12=-6082/2074,

5-15=-2365/1017, 4-15=-2732/8068,

6-15=-3962/1427, 6-14=-1119/524,

6-13=-1744/576, 8-13=-1119/749,

3-16=-1410/676, 2-19=0/95, 2-20=-130/935

2-17=-1504/498, 3-17=-272/610

NOTES

WEBS

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

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

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

Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 5-15 2x4 - 2 rows staggered at 0-2-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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 477 lb uplift at joint 20, 2664 lb uplift at joint 16 and 2112 lb uplift at joint 12.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 180 lb down and 109 lb up at 5-11-4, 180 lb down and 109 lb up at 7-11-4, 412 lb down and 988 lb up at 9-11-4, 18 lb down and 50 lb up at 10-9-12, 412 lb down and 988 lb up at 11-11-4, 18 lb down and 50 lb up at 12-9-12, 412 lb down and 988 lb up at 13-11-4, 81 lb down and 56 lb up at 15-1-12, 412 lb down and 988 lb up at 15-11-4, 81 lb down and 56 lb up at 17-1-12, and 412 lb down and 988 lb up at 17-11-4, and 81 lb down and 56 lb up at 19-1-12 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=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-4=-100, 4-10=-900, 11-20=-10

Concentrated Loads (lb)

Vert: 15=277 (B), 13=-81 (F), 17=-180 (B), 21=-180 (B), 22=277 (B), 23=27 (F), 24=27 (F), 25=277 (B), 26=-81 (F), 27=277 (B), 28=277 (B), 29=-81 (F)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

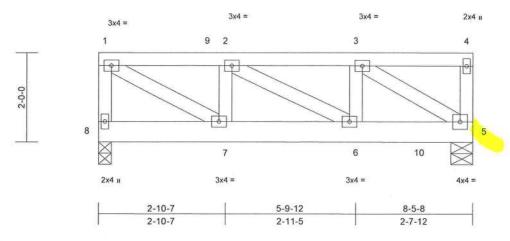
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

Job	Truss	Truss Type	Qty	Ply		
3698546	FG7	Flat Girder	1	2	Job Reference (optional)	T32098940

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:31 ID:tftC4vioz?JISzEMwqpx9HyJfKb-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:25.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.01	5-6	>999	240	Weight: 104 lb	FT = 20%

LUMBER

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

BRACING

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

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

REACTIONS (size) 5=0-6-0, 8=0-3-8

Max Horiz 8=-92 (LC 4)

Max Uplift 5=-947 (LC 5), 8=-311 (LC 4) Max Grav 5=2120 (LC 1), 8=710 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-8=-664/301, 1-2=-926/405, 2-3=-1503/660,

3-4=-144/86, 4-5=-550/242

BOT CHORD 7-8=-82/68, 6-7=-445/926, 5-6=-682/1503 WEBS

3-5=-1624/714, 2-7=-566/285,

1-7=-456/1032, 2-6=-308/685, 3-6=-121/302

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-6-0

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

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

provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 8 and 947 lb uplift at joint 5.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 972 lb down and 443 lb up at 7-3-0, and 84 lb down and 54 Ib up at 8-3-12 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=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-3=-100, 3-4=-450 (F=-350), 5-8=-10

Concentrated Loads (lb)

Vert: 5=-84 (F), 10=-972 (F)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

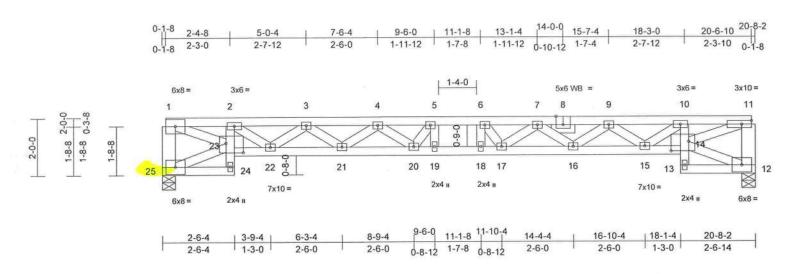




Job	Truss	Truss Type	Qty	Ply		
3698546	FT1	Roof Special	2	1	Job Reference (optional)	T32098941

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:32 ID:X2jSsGg 7aOO2GMkcdFiP9yJfJL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.3

Tiate Offsets (X, 1).	[o.o o o,Lage]	, [1 1.0 1 0,0 1 0], [E	0.0 1 110 1 11									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.49	18-19	>497	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.67	18-19	>362	240		
PCLL	0.0*	Ren Stress Incr	NO	WB	0.67	Horz(CT)	0.24	12	n/a	n/a		

240 Weight: 111 lb FT = 20% FBC2020/TPI2014 Matrix-MS Wind(LL) 0.44 18-19 >557 5.0 BCDL Code

6-18=-2/29

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 24-2,10-13:2x4 SP BOT CHORD No.3, 23-14:2x4 SP 2850F 2.0E or 2x4 SP M

Plate Offsets (X. V): 18:0-3-0 Edgel [14:0-7-8 0-4-0] [23:0-7-4 0-4-0]

WEBS 2x4 SP No.3 *Except* 25-1,11-12:2x6 SP

No.2, 23-1,14-11:2x4 SP No.2

OTHERS 2x4 SP No.3

BRACING

Structural wood sheathing directly applied or TOP CHORD 1-11-7 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 3-9-11 oc

bracing REACTIONS (size) 12=0-5-8, 25=0-5-8

Max Horiz 25=-97 (LC 6)

Max Uplift 12=-470 (LC 7), 25=-1014 (LC 6)

Max Grav 12=1112 (LC 1), 25=2412 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-25=-2601/1872, 1-2=-2227/1700,

TOP CHORD

2-3=-3011/2357, 3-4=-4378/3492, 4-5=-5109/4112, 5-6=-5242/4239, 6-7=-5116/4138, 7-9=-4400/3566,

9-10=-3046/2476, 10-11=-2278/1860,

11-12=-1023/829

24-25=-165/240, 23-24=0/29, 2-23=-565/525, **BOT CHORD** 22-23=-1823/2546, 21-22=-2972/3855,

20-21=-3825/4878, 19-20=-4133/5242 18-19=-4133/5242, 17-18=-4133/5242,

16-17=-3877/4893, 15-16=-3069/3884, 14-15=-1990/2571, 13-14=0/30, 10-14=-557/486, 12-13=-179/232

WEBS

23-25=-200/287, 1-23=-1820/2340, 12-14=-196/206, 11-14=-1892/2386, 2-22=-559/640, 10-15=-499/624, 3-22=-1099/938, 9-15=-1091/909, 3-21=-540/681, 9-16=-509/672, 4-21=-650/571, 7-16=-642/543, 4-20=-235/300, 7-17=-202/290, 5-20=-232/222, 6-17=-219/177, 5-19=-17/32,

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3x4 MT20 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1014 lb uplift at joint 25 and 470 lb uplift at joint 12.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1613 lb down and 1063 lb up at 0-2-12 on top 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=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 1-11=-100, 24-25=-10, 14-23=-10, 12-13=-10

Concentrated Loads (lb) Vert: 1=-1300 (F)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.88126 MiTek Inc. DBA MITek USA FI, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

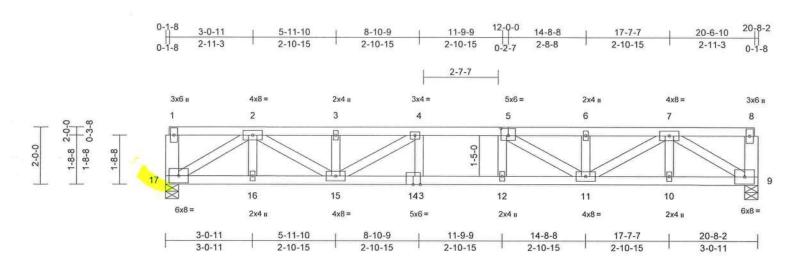
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
3698546	FT2	Flat	4	1	Job Reference (optional)	T32098942

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:32 ID:CelBRJshCxCMvA9WsIdQJzyJeHG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.3

Tidle Offsets (X, 1):	interesting (A, 1). [5.55-5,55-5]													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.22	12-13	>999	360	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.30	12-13	>812	240	1.000.00000000000000000000000000000000			
BCLL	0.0*	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.07	9	n/a	n/a				
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.20	12-13	>999	240	Weight: 107 lb	FT = 20%		

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.1 BOT CHORD

Plate Offsets (X-Y): [5:0-3-0.0-3-0]

WEBS 2x4 SP No.3 *Except* 17-1,8-9:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 3-11-7 oc bracing.

REACTIONS (size) 9=0-5-8, 17=0-5-8

Max Horiz 17=97 (LC 7) Max Uplift 9=-470 (LC 7), 17=-1014 (LC 6)

Max Grav 9=1112 (LC 1), 17=2412 (LC 1) FORCES

Tension

(lb) - Maximum Compression/Maximum

1-17=-1742/1192, 1-2=-80/47, TOP CHORD

2-3=-2687/2187, 3-4=-2687/2187,

4-6=-3227/2649, 6-7=-2678/2218,

7-8=-51/91, 8-9=-138/131

BOT CHORD 16-17=-1191/1609, 15-16=-1191/1609,

13-15=-2543/3227, 12-13=-2543/3227, 11-12=-2545/3222, 10-11=-1253/1610,

9-10=-1253/1610

WEBS 7-9=-1825/1482, 2-16=0/84,

2-17=-1826/1510, 2-15=-1031/1250,

3-15=-282/268, 4-15=-626/536, 4-13=0/85,

5-12=0/90, 5-11=-643/511, 6-11=-262/253,

7-11=-996/1238, 7-10=0/85

NOTES

1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 2) 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.
- All bearings are assumed to be SP No.1
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1014 lb uplift at joint 17 and 470 lb uplift at joint 9.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1613 Ib down and 1063 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-8=-100 9-17=-10

Concentrated Loads (lb) Vert: 1=-1300 (F)

electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

This item has been

November 14,2023

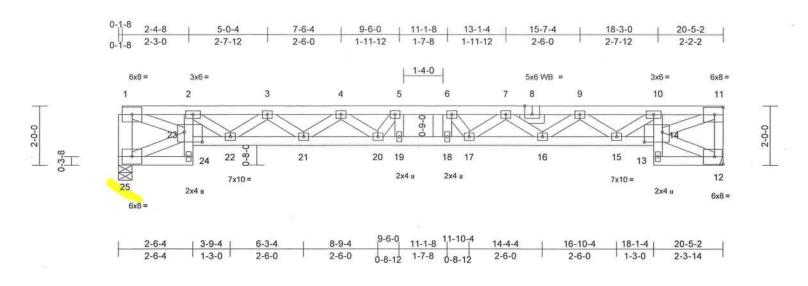
Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	FT3	Roof Special	5	1	Job Reference (optional)	T32098943

Run: 8.72 E Oct 19 2023 Print: 8.720 E Oct 19 2023 MiTek Industries, Inc. Tue Nov 14 10:56:01 ID:G8PQ3poc6lbTstLxl_x5r?yJeAu-xBHPO5qBGeFb5XiNfFPTfH?lB8HusX2LL3eSocyJTEk

Page: 1



Scale = 1:38.9

Plate Offsets (X, Y):	[8:0-3-0,Edge],	[14:0-7-4,0-4-0], [23:0-7-4,0-4-0]	
-----------------------	-----------------	------------------------------------	--

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.47	18-19	>510	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.65	18-19	>371	240			
BCLL	0.0*	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.23	12	n/a	n/a			
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.43	18-19	>555	240	Weight: 109 lb	FT = 20%	

LUMBER TOP CHORD

2x4 SP No.2

2x4 SP No.2 *Except* 24-2,10-13:2x4 SP **BOT CHORD**

No.3, 23-14:2x4 SP 2850F 2.0E or 2x4 SP M

WEBS 2x4 SP No.3 *Except* 25-1:2x6 SP No.2, 23-1,14-11:2x4 SP No.2

OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-0-2 oc purlins

BOT CHORD Rigid ceiling directly applied or 3-9-2 oc

bracing.

REACTIONS (lb/size) 12=1103/ Mechanical,

25=2403/0-5-8

Max Uplift 12=-462 (LC 6), 25=-1006 (LC 6)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-2229/1843, 2-3=-2983/2446, 3-4=-4326/3548, 4-5=-5034/4136,

5-6=-5155/4244, 6-7=-5018/4122, 7-8=-4279/3509, 8-9=-4279/3509,

9-10=-2904/2381, 10-11=-2134/1764

BOT CHORD 24-25=-192/237, 23-24=0/38, 2-23=-597/516,

22-23=-2072/2507, 21-22=-3149/3812, 20-21=-3974/4817, 19-20=-4244/5155,

18-19=-4244/5155, 17-18=-4244/5155, 16-17=-3946/4783, 15-16=-3098/3750,

14-15=-1984/2401, 13-14=0/36, 10-14=-611/526, 12-13=-175/216 WERS

1-23=-1980/2394, 12-14=-235/191, 2-22=-493/625, 10-15=-521/660 3-22=-1079/916, 9-15=-1100/933,

1-25=-2303/1910. 23-25=-255/207.

3-21=-519/669, 9-16=-536/689, 4-21=-639/554, 7-16=-657/569,

4-20=-211/284, 7-17=-229/305, 5-20=-211/188, 6-17=-240/212, 5-19=0/26,

6-18=-9/35, 11-14=-1909/2309,

11-12=-1007/842

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3x4 MT20 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 25 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1006 lb uplift at joint 25 and 462 lb uplift at joint 12.

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1300 lb down and 1070 lb up at 0-2-12 on top 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=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-11=-100, 24-25=-10, 14-23=-10, 12-13=-10 Concentrated Loads (lb) Vert: 1=-1300 (F)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

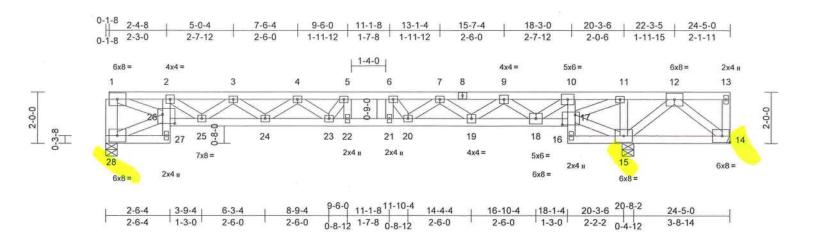
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA Fl. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply		
3698546	FT4	Roof Special	5	1	Job Reference (optional)	T32098944

Run: 8.72 S. Oct. 5 2023 Print: 8.720 S Oct. 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:33 ID:VatXNjcSJtG09km7qzubJdyJdsT-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45

· into Gilodia (Fil 1)	[-]; [==:0 0 :=;0 :::	1										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.26	22-23	>911	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.36	22-23	>662	240	(ASSESSMENT)		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.09	15	n/a	n/a			

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.26	22-23	>911	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.36	22-23	>662	240	(V-2-5-20-V-5-8-0)	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.09	15	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.22	22-23	>999	240	Weight: 129 lb	FT = 20%

LUMBER TOP CHORD

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

2x4 SP No.2 *Except* 27-2,10-16:2x4 SP No.3, 26-17:2x4 SP No.1

2x4 SP No.3 *Except* 28-1:2x6 SP No.2

BRACING TOP CHORD BOT CHORD

TOP CHORD

WEBS

Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals Rigid ceiling directly applied or 3-8-12 oc

bracing.

REACTIONS (size) 14= Mechanical, 15=0-5-8,

Plate Offsets (X, Y): [17:0-6-0 0-4-12] [26:0-5-12 0-4-4]

28=0-5-8 Max Horiz 28=72 (LC 9)

14=-978 (LC 1), 15=-1167 (LC 7),

28=-911 (LC 6)

14=418 (LC 7), 15=2758 (LC 1), Max Grav

28=2165 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1692/1210, 2-3=-2195/1601, 3-4=-2983/2212, 4-5=-3108/2330, 5-6=-2909/2200, 6-7=-2459/1865,

7-9=-1134/887, 9-10=-566/830,

10-11=-1696/2360, 11-12=-1940/2706,

12-13=-41/43, 13-14=-75/71

27-28=-124/191, 26-27=0/37, 2-26=-459/399, BOT CHORD

25-26=-1259/1909, 24-25=-1935/2741, 23-24=-2307/3211, 22-23=-2094/2909,

21-22=-2094/2909, 20-21=-2094/2909, 19-20=-1372/1905, 18-19=-186/306, 17-18=-2412/1837, 16-17=-57/48,

10-17=-1441/1097, 15-16=-312/231, 14-15=-1238/949

WEBS

1-28=-2364/1549, 26-28=-205/248, 1-26=-1299/1817, 15-17=-2604/1973, 2-25=-311/380, 10-18=-1447/1964, 3-25=-711/573, 9-18=-1469/1117, 3-24=-222/315, 9-19=-775/1087, 4-24=-297/262, 7-19=-1004/768, 4-23=-134/108, 7-20=-504/720, 5-23=-227/348, 6-20=-784/584, 5-22=-322/241, 6-21=-236/345, 11-17=-263/374, 11-15=-358/289 12-15=-1933/1444, 12-14=-1166/1616

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 3x4 MT20 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 28 SP No.2, Joint 15 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 978 lb uplift at joint 14, 911 lb uplift at joint 28 and 1167 lb uplift at joint 15.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1613 lb down and 976 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

12) 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=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-13=-100, 27-28=-10, 17-26=-10, 14-16=-10 Concentrated Loads (lb) Vert: 1=-1300 (F)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.88116 MiTek Inc. DBA MiTek USA FL Cert 6634 16028 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

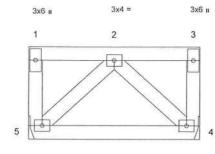


Job	Truss	Truss Type	Qty	Ply		
3698546	FT5	Flat	2	1	Job Reference (optional)	T32098945

Run: 8.72 E Oct 19 2023 Print: 8.720 E Oct 19 2023 MiTek Industries, Inc. Tue Nov 14 10:57:14 ID:hH4yQpm97Sk9ZZRjxb?BmFyJdjE-EcJm7lkDbgiyb3xnYVF3C5bmON5mxboOaEJvxmyJTDZ

Page: 1







3x4 =

Scale = 1:25.1

1	3-8-14	
	3-0-14	

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MP	0.044.0404.00	A 22 C C C C C C C C C C C C C C C C C C					Weight: 22 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-8-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=190/ Mechanical, 5=190/

Mechanical

Max Horiz 5=-97 (LC 6)

Max Uplift 4=-103 (LC 7), 5=-103 (LC 6)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-67/104, 1-2=-49/27, 2-3=-36/53,

3-4=-67/104

BOT CHORD 4-5=-100/164

2-5=-149/294, 2-4=-191/172 WEBS

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 5 and 103 lb uplift at joint 4.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J, O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

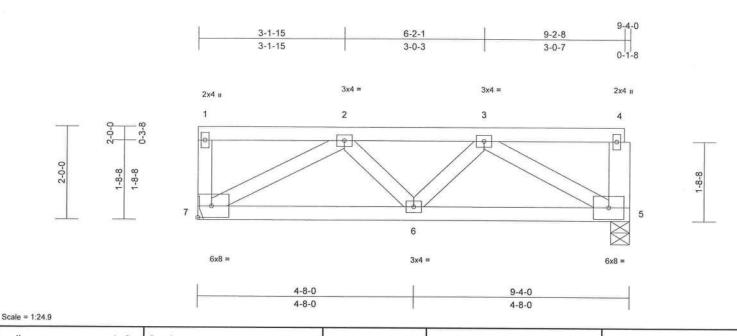
🔼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev, 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		WY - 1 T-12 TO 10
3698546	FT6	Flat	2	1	Job Reference (optional)	T32098946

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:34 ID:nhLAyVdBYzSgtqU4m9EXK0yJdfY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDai7J4zJC?f

Page: 1



				7,	=======							
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.02	6	>999	240	Weight: 48 lb	FT = 20%
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.02	6-7	>999	240		
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.01	6	>999	360	MT20	244/190
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP

LUMBER

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

WEBS 2x4 SP No.3 *Except* 4-5:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 7-6-2 oc

BOT CHORD bracing.

REACTIONS

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

Max Horiz 7=97 (LC 7)

Max Uplift 5=-216 (LC 7), 7=-216 (LC 6)

Max Grav 5=493 (LC 1), 7=493 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-7=-136/176, 1-2=-62/36, 2-3=-624/697, 3-4=-45/86, 4-5=-138/180

6-7=-604/659, 5-6=-617/627

BOT CHORD

2-7=-673/825, 3-5=-657/736, 3-6=0/102, WEBS

2-6=0/98

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) Bearings are assumed to be: , Joint 5 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 216 lb uplift at joint 7 and 216 lb uplift at joint 5.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
3698546	G1	Common Supported Gable	2	1	Job Reference (optional)	T32098947

Run: 8.72 E Oct 19 2023 Print: 8.720 E Oct 19 2023 MiTek Industries, Inc. Tue Nov 14 10:58:25 ID:oYBX Gm221qbjAlHOL?1?dyK1bk-fH5c10bmtVeuczsRCw1ia32k5?J33qdrvn?9w9vJTCS

Page: 1

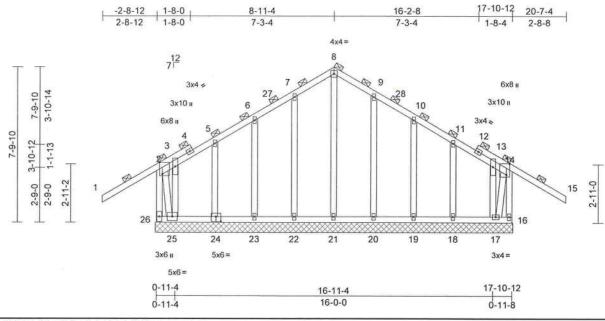


Plate Offsets (X, Y): [2:0-7-0,0-1-12], [14:0-6-12,0-2-0], [24:0-3-0,0-3-0]

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	0.75	Vert(LL)	n/a	0000	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	7.2	n/a	999	September 1	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.01	16	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		The state of the s				1.790017	Weight: 149 lb	FT = 20%

LUMBER

Scale = 1:58

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

2x4 SP No.2 2x4 SP No.3 2x4 SP No.3

OTHERS BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end

verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 16=247/18-0-0, 17=55/18-0-0,

18=140/18-0-0, 19=162/18-0-0, 20=166/18-0-0, 21=211/18-0-0, 22=166/18-0-0, 23=162/18-0-0,

24=137/18-0-0, 25=51/18-0-0, 26=255/18-0-0

Max Horiz 26=-392 (LC 8) Max Uplift 16=-438 (LC 7), 17=-428 (LC 6),

18=-122 (LC 11), 19=-131 (LC 11), 20=-119 (LC 11), 22=-119 (LC 10), 23=-131 (LC 10), 24=-121 (LC 10),

Max Grav

25=-498 (LC 7), 26=-532 (LC 6) 16=442 (LC 18), 17=460 (LC 9), 18=181 (LC 19), 19=184 (LC 19) 20=192 (LC 19), 21=227 (LC 21), 22=194 (LC 18), 23=181 (LC 18),

24=184 (LC 18), 25=542 (LC 8), 26=525 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-26=-488/473, 1-2=0/79, 2-3=-83/200, 3-4=-121/132, 4-5=-118/144, 5-6=-89/152, 6-27=-96/198, 7-27=-86/203, 7-8=-139/272 8-9=-139/272, 9-28=-86/202, 10-28=-97/198, 10-11=-59/149, 11-12=-83/118,

12-13=-87/103, 13-14=-81/229, 14-15=0/78, 14-16=-414/392

BOT CHORD

WEBS

25-26=-359/320, 24-25=-212/277, 23-24=-212/278, 22-23=-212/278, 21-22=-212/278, 20-21=-212/278, 19-20=-212/278, 18-19=-212/278, 17-18=-212/278, 16-17=-69/105 8-21=-187/22, 7-22=-168/140, 6-23=-166/150, 5-24=-169/144

3-25=-209/183, 9-20=-167/139, 10-19=-170/151, 11-18=-151/144 13-17=-293/161, 14-17=-503/585,

2-25=-598/596

NOTES Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-2-1, Interior (1) 0-2-1 to 6-0-0, Exterior(2R) 6-0-0 to 12-0-0, Interior (1) 12-0-0 to 17-8-0, Exterior(2E) 17-8-0 to 20-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For stude 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 532 lb uplift at joint 26, 438 lb uplift at joint 16, 119 lb uplift at joint 22, 131 lb uplift at joint 23, 121 lb uplift at joint 24, 498 lb uplift at joint 25, 119 lb uplift at joint 20, 131 lb uplift at joint 19, 122 lb uplift at joint 18 and 428 lb uplift at joint 17.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd, Chesterfield, MO 63017

November 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL7473 cov. 1/2/2023 REFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	G2	Roof Special Structural Gable	2	1	Job Reference (optional)	T32098948

Run: 8.72 E Oct 5 2023 Print: 8.720 E Oct 5 2023 MiTek Industries, Inc. Tue Nov 14 15:18:18 ID:IR0AtkqJnaNKkSK9vIZ8RhyK1Z3-4W5ZKVR82V?GXSDCC9?GCpZ?EpARsqdfLJPkywyJErp

4-3-8 8-4-3 15-3-4 19-7-8 24-2-8, 26-11-4 22-6-8

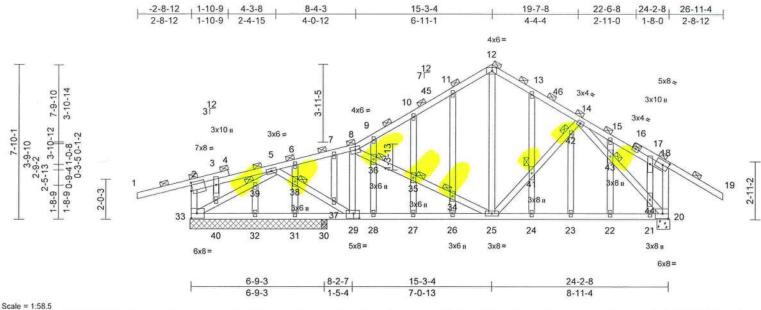


Plate Offsets (X, Y): [2:0-1-1,0-5-0], [12:0-2-10,Edge], [18:0-3-7,0-2-8], [29:0-3-8,0-3-0]

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	0.92	Vert(LL)	-0.08	26-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.16	26-27	>999	240	3337C13644C0C11	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.02	20	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.15	26-27	>999	240	Weight: 211 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* 16-19:2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
BRACING	
TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-5-12 oc bracing.
JOINTS	1 Brace at Jt(s): 8,
	12, 2, 18, 34, 35,
	36, 38, 39, 41, 42,
	43
REACTIONS	All bearings 6-11-11. except 20=0-7-11,

30=0-3-8

(lb) - Max Horiz 33=389 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 30 except 20=-444 (LC 11),

31=-194 (LC 10), 32=-117 (LC 10), 33=-414 (LC 6)

Max Grav All reactions 250 (lb) or less at joint (s) 30 except 20=965 (LC 1), 31=310 (LC 1), 32=315 (LC 1),

33=463 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 5-6=-714/509, 6-7=-799/573, 7-8=-771/573,

8-9=-722/440, 9-10=-690/457 10-45=-693/520, 11-45=-673/524, 11-12=-684/590, 12-13=-697/601, 13-46=-683/522, 14-46=-725/519, 14-15=-121/412, 15-16=-130/396, 16-17=-139/375, 17-18=-168/422,

2-33=-277/526, 18-20=-467/872

32-33=-227/324, 31-32=-227/324, 30-31=-227/324, 29-30=-227/324, 28-29=-347/859, 27-28=-347/859, 26-27=-347/859, 25-26=-347/859, 24-25=-135/651, 23-24=-135/651, 22-23=-135/651, 21-22=-135/651, 20-21=-135/651 **WEBS** 5-38=-334/585, 37-38=-347/628, 29-37=-353/635, 8-29=-300/109, 8-36=-249/297, 35-36=-230/270, 34-35=-259/294, 25-34=-260/295 12-25=-389/428. 33-40=-320/219. 39-40=-274/225, 5-39=-376/264, 14-43=-885/198, 43-44=-875/197, 20-44=-850/189, 6-38=-402/248, 31-38=-480/276, 32-39=-279/131

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-2-8, Interior (1) 0-2-8 to 12-4-0, Exterior(2R) 12-4-0 to 18-4-0, Interior (1) 18-4-0 to 24-0-0, Exterior(2E) 24-0-0 to 27-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Page: 1

- * 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 100 lb uplift at joint (s) 30 except (jt=lb) 33=413, 20=443, 31=194, 32=116.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		- The second of the second
3698546	G3	Roof Special	14	1	Job Reference (optional)	T32098949

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:36 ID:nFk6Uy4wWDLjbHiyStvI6PyK1XS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

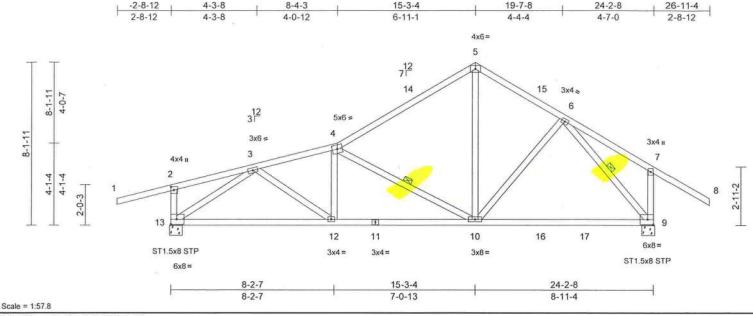


Plate Offsets (X, Y): [2:0-2-0,0-1-12]

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	1.00	Vert(LL)	-0.22	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.37	9-10	>768	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.07	10-12	>999	240	Weight: 152 lb	FT = 20%

LUMBER

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

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

WEBS 4-10, 6-9 1 Row at midpt 9=0-7-11, 13=0-7-11 REACTIONS (size)

Max Horiz 13=407 (LC 9)

Max Uplift 9=-480 (LC 11), 13=-562 (LC 10) Max Grav 9=1230 (LC 19), 13=1166 (LC 2)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/42, 2-3=-159/39, 3-4=-1867/882, 4-5=-1163/699, 5-6=-1136/738, 6-7=-219/463,

7-8=0/87, 2-13=-334/453, 7-9=-426/851

12-13=-536/1514, 10-12=-598/1892, BOT CHORD

9-10=-162/874

WEBS 3-12=-247/502, 4-12=-56/215, 4-10=-1034/510, 5-10=-354/679,

6-10=-114/258, 3-13=-1550/818, 6-9=-1184/321

NOTES

Unbalanced roof live loads have been considered for this design

Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-2-8, Interior (1) 0-2-8 to 12-4-0, Exterior(2R) 12-4-0 to 18-4-0, Interior (1) 18-4-0 to 24-0-0, Exterior(2E) 24-0-0 to 27-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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 No.2

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 562 lb uplift at joint 13 and 480 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 Mi Fek Inc. DBA Mi Tek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	G4	Roof Special	5	1	Job Reference (optional)	T32098950

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:37 ID:s1rmcmizzOEiftxil1JjYfyK1VM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

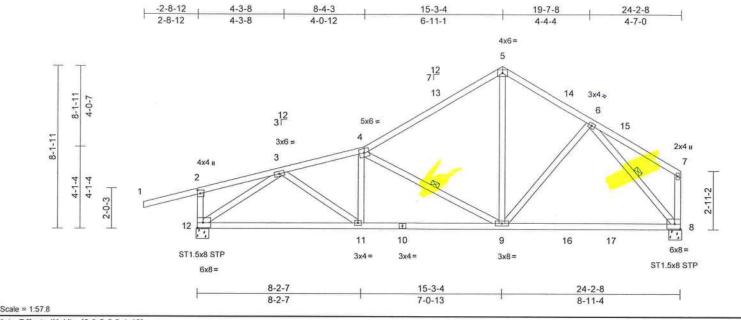


Plate Offsets (X, Y): [2:0-2-0,0-1-12]

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	0.80	Vert(LL)	-0.22	8-9	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.37	8-9	>773	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	8	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	.07537.1	Wind(LL)	0.07	9-11	>999	S11900000	Weight: 148 lb	FT = 20%	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied **WEBS** 1 Row at midpt 4-9, 6-8

REACTIONS (size) 8=0-7-11, 12=0-7-11

Max Horiz 12=385 (LC 7) Max Uplift 8=-355 (LC 11), 12=-562 (LC 10)

Max Grav 8=1049 (LC 19), 12=1175 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/42, 2-3=-160/39, 3-4=-1885/787,

4-5=-1181/602, 5-6=-1156/641, 6-7=-233/226, LOAD CASE(S) Standard

2-12=-334/453, 7-8=-229/245

BOT CHORD 11-12=-578/1507, 9-11=-640/1891,

8-9=-258/891

3-11=-213/509, 4-11=-60/194, 4-9=-1037/511,

5-9=-258/703, 6-9=-114/234, 3-12=-1564/742, 6-8=-1175/449

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-2-8, Interior (1) 0-2-8 to 12-4-0, Exterior(2R) 12-4-0 to 18-4-0, Interior (1) 18-4-0 to 21-1-8, Exterior(2E) 21-1-8 to 24-1-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 562 lb uplift at joint 12 and 355 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

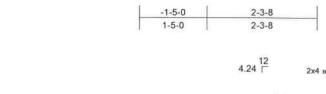
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

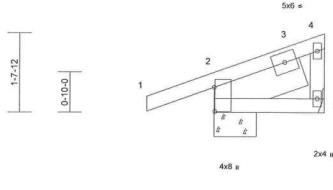


Job	Truss	Truss Type	Qty	Ply		Managar popularity
3698546	HJ2D	Diagonal Hip Girder	1	1	Job Reference (optional)	T32098951

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:37 ID:eMKQjk9qVO0cwzzEC1riGiyJbkC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:24

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

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	0.15	Vert(LL)	0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	0.00	6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.00	6			Weight: 17 lb	FT = 20%

2-3-8

LUMBER

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

SLIDER Left 2x8 SP 2400F 2.0E -- 1-11-5

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

2-3-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 2=89 (LC 7)

Max Uplift 2=-179 (LC 4), 5=-76 (LC 21) Max Grav 2=215 (LC 1), 5=96 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/28, 2-4=-153/163, 4-5=-67/60

BOT CHORD 2-5=-27/21

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 76 lb uplift at joint 5 and 179 lb uplift at joint 2.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 90 lb up at 1-5-0, and 84 lb down and 90 lb up at 1-5-0 on top chord, and 8 lb down and 11 lb up at 1-5-0, and 8 lb down and 11 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=-60, 5-6=-20

Concentrated Loads (lb)

Vert: 9=59 (F=30, B=30)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

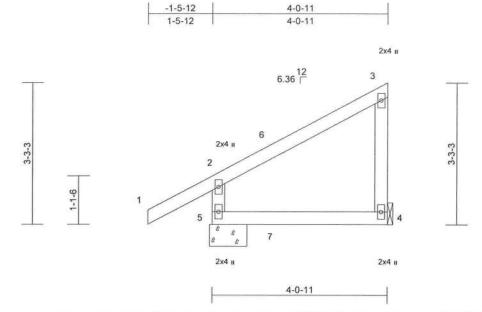
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	HJ3	Diagonal Hip Girder	4	1	Job Reference (optional)	T32098952

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries. Inc. Mon Nov 13 14:41:37 ID:O4hWlhgrdATcwnieEmAZZqyK1Ne-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.6

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	0.30	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02	4-5	>999	180	3.001580406	
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 20 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

REACTIONS 4= Mechanical, 5=0-10-8 (size) Max Horiz 5=194 (LC 5)

Max Uplift 4=-129 (LC 5), 5=-205 (LC 8)

Max Grav 4=151 (LC 15), 5=262 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 2-5=-186/197, 1-2=0/46, 2-3=-139/59,

3-4=-94/111

BOT CHORD 4-5=-63/64

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 5 and 129 lb uplift at joint 4.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 112 lb up at 1-5-0, and 108 lb down and 112 lb up at 1-5-0 on top chord, and 27 lb down and 32 lb up at 1-5-0, and 27 lb down and 32 lb up at 1-5-0 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: 1-2=-60, 2-3=-60, 4-5=-20 Concentrated Loads (lb) Vert: 6=74 (F=37, B=37)

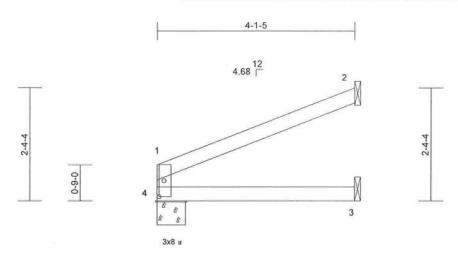
> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	HJ3C	Jack-Open	2	1	Job Reference (optional)	T32098953

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:38 ID:_C1CvVnpwHI0MNvB1eQu5HyJbtj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



ST1.5x8 STP

4-1-5

Scale = 1:24.1

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

	- S												
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	0.39	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.02	3-4	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	Seco	Wind(LL)	0.02	3-4	>999	240	Weight: 13 lb	FT = 20%	

LUMBER

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

2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

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

4=0-7-3 Max Horiz 4=82 (LC 10)

Max Uplift 2=-111 (LC 10), 4=-53 (LC 10) Max Grav 2=109 (LC 1), 3=74 (LC 3), 4=156

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-159/172, 1-2=-87/51

BOT CHORD 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 4 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 53 lb uplift at joint 4 and 111 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Page: 1

Phillip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	HJ4	Diagonal Hip Girder	2	1	Job Reference (optional)	T32098954

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:38 ID:j9xPxCKplwVpg9NseSMrPvyJgcQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

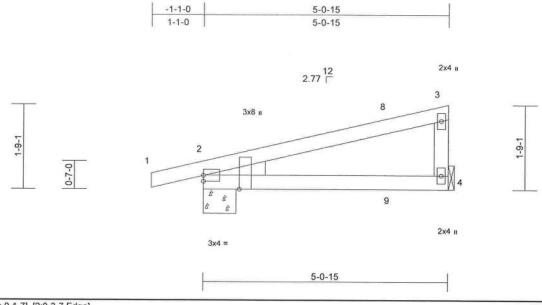


Plate Offsets (X, Y): [2:Edge,0-1-7], [2:0-3-7,Edge]

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	0.33	Vert(LL)	-0.03	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.06	4-7	>970	240	100000000000000000000000000000000000000	210100
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.05	4-7	>999	0.000	Weight: 21 lb	FT = 20%

LUMBER

Scale = 1:24

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins, except end verticals.

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

OT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

NS (size) 2=0-8-2, 4= Mechanical

Max Horiz 2=92 (LC 7)

Max Uplift 2=-190 (LC 4), 4=-125 (LC 8) Max Grav 2=272 (LC 1), 4=201 (LC 1)

FORCES (lb) - M

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-97/37, 3-4=-124/98

BOT CHORD 2-4=-64/90

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 4 and 190 lb uplift at joint 2.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 69 lb up at 3-9-12 on top chord, and 14 lb down and 26 lb up at 3-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Vert: 9=-14 (B)

Dead + Roof Live (balanced): Lumber Increase=1.25,
 Plate Increase=1.25
 Uniform Loads (lb/ft)
 Vert: 1-3=-60, 4-5=-20
 Concentrated Loads (lb)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

November 14,2023

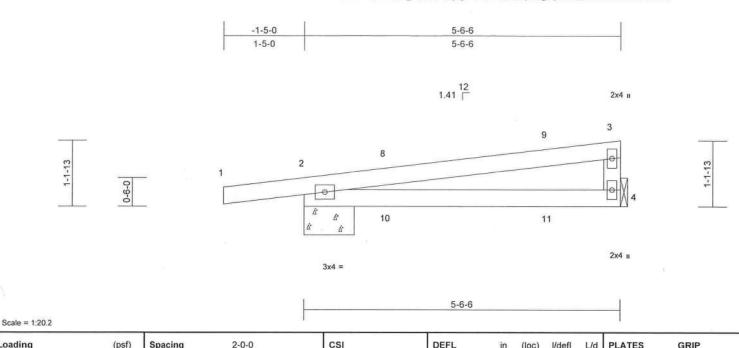
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSS-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		Set State etc. Demostra 177
3698546	HJ4A	Diagonal Hip Girder	1	1	Job Reference (optional)	T32098955

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:38 ID:S?BibfQ4eMDSP_WJDO3V3ZyJg7K-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



LUMBER

Loading

TCDL

BCLL

BCDL

TCLL (roof)

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

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

20.0

10.0

0.0

10.0

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

REACTIONS (size) 2=0-10-8, 4= Mechanical Max Horiz 2=51 (LC 7)

> Max Uplift 2=-232 (LC 4), 4=-126 (LC 8) Max Grav 2=316 (LC 1), 4=220 (LC 1)

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.25

1.25

FBC2020/TPI2014

NO

Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/10, 2-3=-188/13, 3-4=-141/109

BOT CHORD 2-4=-30/161

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C, Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 126 lb uplift at joint 4 and 232 lb uplift at joint 2.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down and 6 lb up at 1-5-0. 91 lb down and 6 lb up at 1-5-0, and 38 lb down and 59 lb up at 4-2-15, and 38 lb down and 59 lb up at 4-2-15 on top chord, and 14 lb down and 5 lb up at 1-5-0, 14 lb down and 5 lb up at 1-5-0, and 13 lb down and 13 lb up at 4-2-15, and 13 lb down and 13 lb up at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

0.44

0.33

0.00

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

-0.04

-0.08

0.01

0.06

4-7

4-7

4-7

2

>999

>777

>999

n/a

360

240

n/a

240

MT20

Weight: 20 lb

244/190

FT = 20%

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: 1-3=-60, 4-5=-20

TC

BC

WB

Matrix-MP

Concentrated Loads (lb)

Vert: 9=-3 (F=-1, B=-1), 11=-18 (F=-9, B=-9)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

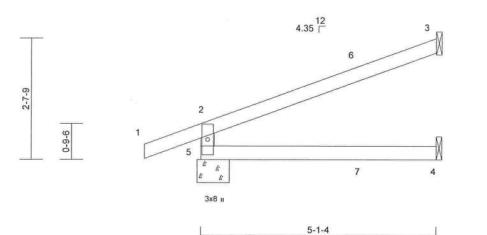
Phillp J. O'Regau PE No. 58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017



Job-	Truss	Truss Type	Qty	Ply		
3698546	HJ4C	Diagonal Hip Girder	2	1	Job Reference (optional)	T32098956

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:38 ID:G35ib0o4kH7vBOH?UMNkYlyJboX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:25.1

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	0.39	Vert(LL)	-0.03	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR		Wind(LL)	0.04	4-5	>999	240	Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-4 oc purlins, except end verticals.

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

bracing.

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

5=0-8-7

Max Horiz 5=135 (LC 4)

Max Uplift 3=-130 (LC 8), 5=-184 (LC 4)

Max Grav 3=129 (LC 1), 4=92 (LC 3), 5=291

(LC 1)

(lb) - Maximum Compression/Maximum

TOP CHORD 2-5=-247/228, 1-2=0/28, 2-3=-73/34

BOT CHORD 4-5=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 5 and 130 lb uplift at joint 3.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 75 lb up at 3-5-12, and 39 lb down and 79 lb up at 3-6-0 on top chord, and 6 lb down and 1 lb up at 3-5-12, and 6 lb down and 1 lb up at 3-6-0 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: 1-2=-60, 2-3=-60, 4-5=-20

Concentrated Loads (lb)

Vert: 7=-2 (F=-1, B=-1)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regon PE No.88126 MiTek Inc. DBA MiTek USA FL Cert 8634 16923 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

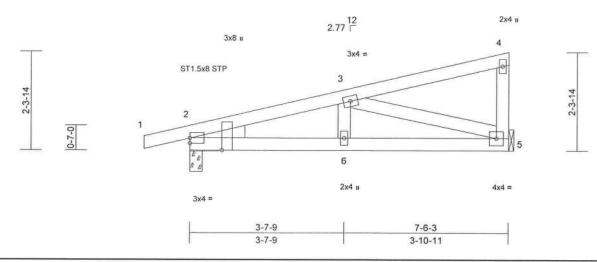


Job	Truss	Truss Type	Qty	Ply		
3698546	HJ6	Diagonal Hip Girder	2	1	Job Reference (optional)	T32098957

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:39 ID:Imit_Vb?DGqLJSYSPc7_syJgcC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:27.2

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	0.17	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.02	5-6	>999	240	(577) 11 570/110	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.02	6	>999		Weight: 35 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

BRACING

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

BOT CHORD Rigid ceiling directly applied or 9-11-12 oc

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical

Max Horiz 2=127 (LC 7)

Max Uplift 2=-257 (LC 4), 5=-185 (LC 8) Max Grav 2=379 (LC 1), 5=304 (LC 1)

FORCES (lb) - M

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-577/343, 3-4=-78/27,

4-5=-103/88

BOT CHORD 2-6=-346/551, 5-6=-346/551

WEBS 3-6=-4/133, 3-5=-547/376

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 .
- 6) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 5 and 257 lb uplift at joint 2.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb down and 70 lb up at 3-9-3, and 44 lb down and 71 lb up at 3-9-12 on top chord, and 14 lb down and 26 lb up at 3-9-3, and 14 lb down and 26 lb up at 3-9-12 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: 1-4=-60, 5-7=-20 Concentrated Loads (lb)

Vert: 6=-28 (F=-14, B=-14)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

November 14,2023

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

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria and DSS-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	HJ7D	Diagonal Hip Girder	1	1	Job Reference (optional)	T32098958

4-9-10

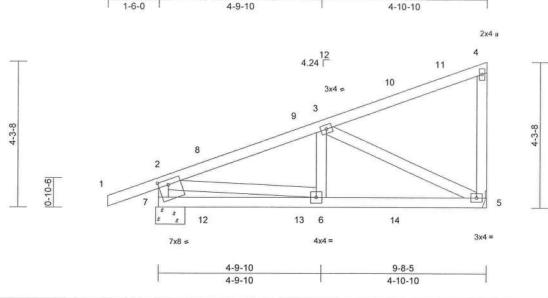
Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

-1-6-0

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:39 ID:g3yFPl4azejq58RJGIToAlyJg1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

9-8-5

Page: 1



Scale = 1:34 Plate Offsets (X, Y): [7:0-3-8.0-1-12]

	Let the decided and the same	1		Y								
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	0.48	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.05	5-6	>999	240		Committee Commit
BCLL	0.0*	Rep Stress Incr	NO	WB	0.29	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	700077	Wind(LL)	0.03	5-6	>999		Weight: 55 lb	FT = 20%

LUMBER

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

WEBS

BRACING

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

Rigid ceiling directly applied or 6-0-0 oc bracing. 5= Mechanical, 7=0-10-8

REACTIONS (size)

Max Horiz 7=246 (LC 5)

Max Uplift 5=-348 (LC 5), 7=-293 (LC 4)

Max Grav 5=452 (LC 1), 7=455 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension 2-7=-415/292, 1-2=0/33, 2-3=-577/387,

TOP CHORD

3-4=-145/71, 4-5=-153/151

BOT CHORD 6-7=-192/80, 5-6=-471/514

WEBS 2-6=-372/540, 3-6=0/202, 3-5=-545/462

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 7 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 7 and 348 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 110 lb up at 1-5-0, 104 lb down and 110 lb up at 1-5-0, 38 lb down and 81 lb up at 4-2-15, 38 lb down and 81 lb up at 4-2-15, and 70 lb down and 136 lb up at 7-0-14, and 70 lb down and 136 lb up at 7-0-14 on top chord, and 8 lb down and 11 lb up at 1-5-0, 8 lb down and 11 lb up at 1-5-0, 14 lb down and 16 lb up at 4-2-15, 14 lb down and 16 lb up at 4-2-15, and 33 lb down and 16 lb up at 7-0-14, and 33 lb down and 16 lb up at 7-0-14 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: 1-2=-60, 2-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 8=73 (F=37, B=37), 10=-81 (F=-41, B=-41), 13=-2 (F=-1, B=-1), 14=-47 (F=-24, B=-24)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

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

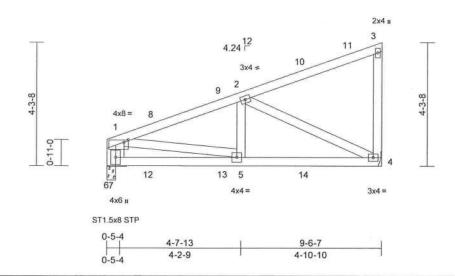


Job	Truss	Truss Type	Qty	Ply		
3698546	НЈ7К	Diagonal Hip Girder	1	1	Job Reference (optional)	T32098959

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries. Inc. Mon Nov 13 14:41:40 ID:?KWQQj7y193v_VrCAZdlCmyJfYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDai7J4zJC?f

Page: 1





Scale = 1:40.1

Plate Offsets	(X, Y):	[1:0-1-12	.0-1-01
---------------	---------	-----------	---------

	. E	<u> </u>										
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)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	1000000	Wind(LL)	0.02	5-6	>999	240	Weight: 52 lb	FT = 20%

LUMBER

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

OTHERS 2x4 SP No.3

BRACING TOP CHORD

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

BOT CHORD Rigid ceiling directly applied or 8-7-5 oc

bracing.

REACTIONS (size) 4= Mechanical, 7=0-3-8

Max Horiz 7=215 (LC 7)

Max Uplift 4=-315 (LC 5), 7=-271 (LC 4)

Max Grav 4=487 (LC 1), 7=413 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-6=-33/58, 1-2=-642/376, 2-3=-149/56,

TOP CHORD

3-4=-156/131

BOT CHORD 5-6=-301/185, 4-5=-466/576 WEBS

1-5=-214/400, 2-5=0/202, 2-4=-613/484,

1-7=-436/288

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7 SP No.3

- 6) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 4 and 271 lb uplift at joint 7.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 38 lb up at 1-10-10, 40 lb down and 77 lb up at 4-2-15, 45 lb down and 94 lb up at 4-5-12, and 69 lb down and 77 lb up at 7-0-14, and 75 lb down and 145 lb up at 7-3-11 on top chord, and 20 lb down and 50 lb up at 1-7-13, 6 lb down and 13 lb up at 1-10-10, 17 lb down and 15 lb up at 4-2-15, 16 lb down and 19 lb up at 4-5-12, and 36 lb down at 7-0-14, and 36 lb down and 17 lb up at 7-3-11 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: 1-3=-60, 4-6=-20

Concentrated Loads (lb)

Vert: 9=0 (F), 10=-98 (F=-53, B=-45), 12=-20 (F=-19, B=-1), 13=-11 (F=-7, B=-4), 14=-54 (F=-30, B=-24)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan FE No. \$8126 MiTek Inc. DBA MiTek USA FL Cett 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

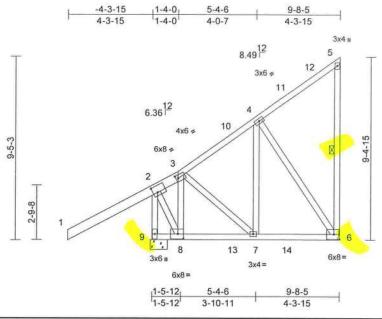
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	HJ7M	Jack-Closed Girder	1	1	Job Reference (optional)	T32098960

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:40 ID:oTIGmiaMbQm6uCXhAR0dlayJjpO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.4

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

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	0.98	Vert(LL)	0.07	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.07	6-7	>999	180	Entropy Charles	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.82	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		N. (4)					Weight: 96 lb	FT = 20%

LUMBER TOP CHORD

2x6 SP No.2 *Except* 3-5:2x4 SP No.2

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

BRACING

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

BOT CHORD Rigid ceiling directly applied or 5-7-9 oc

bracing. WEBS

1 Row at midpt 5-6

REACTIONS (size) 6= Mechanical, 9=0-10-8

Max Horiz 9=530 (LC 5)

Max Uplift 6=-1140 (LC 5), 9=-2065 (LC 4)

Max Grav 6=905 (LC 24), 9=1877 (LC 25) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-9=-1826/2033, 1-2=0/126, 2-3=-848/982, 3-4=-725/756, 4-5=-331/337, 5-6=-175/205

BOT CHORD 8-9=-497/277, 7-8=-1027/940, 6-7=-686/584

WEBS

2-8=-1497/1931, 3-8=-1076/725, 3-7=-452/488, 4-7=-644/639, 4-6=-804/1043

NOTES

FORCES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 9 SP No.2.

- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2065 lb uplift at joint 9 and 1140 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 572 lb down and 494 lb up at 1-5-0, 572 lb down and 494 lb up at 1-5-0, 133 lb down and 120 lb up at 4-2-15, 133 lb down and 120 lb up at 4-2-15, and 197 lb down and 236 lb up at 7-0-14, and 197 lb down and 236 lb up at 7-0-14 on top chord, and 301 lb down and 546 lb up at 1-5-0, 301 lb down and 546 lb up at 1-5-0, 95 lb down and 131 lb up at 4-2-15, 95 lb down and 131 lb up at 4-2-15, and 120 lb down and 147 lb up at 7-0-14, and 120 lb down and 147 lb up at 7-0-14 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: 1-2=-60, 2-3=-60, 3-5=-60, 6-9=-20

Concentrated Loads (lb)

Vert: 3=329 (F=165, B=165), 11=-63 (F=-31, B=-31), 13=65 (F=32, B=32), 14=48 (F=24, B=24)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd, Cheaterfield, MO 63017

November 14,2023

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

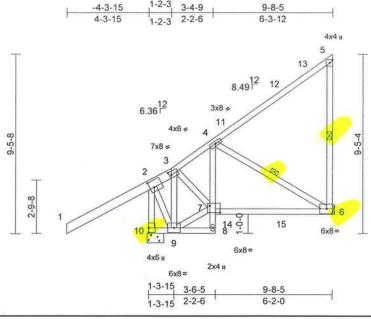
Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



3698546	HJ7MT	Jack-Closed Girder	2	1	Job Reference (optional)	, , , , , , , , , , , , , , , , , , , ,
		1000		1100		T32098961
Job	Truss	Truss Type	Qty	Ply		

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:41 ID:DUISoNTpanMiDiXbzo7uJQyJiP9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.9

Plate Offsets (X, Y): [2:0-2-12,0-4-4], [3:0-1-4,Edge], [7:0-6-8,0-4-8]

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	0.98	Vert(LL)	0.24	6-7	>466	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.26	6-7	>432	180	10000000000	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	-0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 92 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-5:2x4 SP No.1 BOT CHORD 2x4 SP No.2 *Except* 8-4:2x4 SP No.3

2x4 SP No.3 WEBS

BRACING TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 3-7-4 oc bracing.

WEBS 1 Row at midpt 5-6, 4-6 6= Mechanical, 10=0-10-8 REACTIONS (size)

Max Horiz 10=513 (LC 5)

Max Uplift 6=-1154 (LC 5), 10=-2138 (LC 4) Max Grav 6=943 (LC 24), 10=1986 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-10=-1891/2061, 1-2=0/126, 2-3=-810/949,

3-4=-1006/1015, 4-5=-454/499, 5-6=-265/345 BOT CHORD

9-10=-490/278, 8-9=-82/44, 7-8=-23/43,

4-7=-671/738, 6-7=-1318/1137

2-9=-1418/1967, 3-9=-1619/1215,

7-9=-1045/1007, 3-7=-457/430,

4-6=-1157/1401

NOTES

WEBS

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 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 2138 lb uplift at joint 10 and 1154 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 572 lb down and 494 lb up at 1-3-3, 572 lb down and 494 lb up at 1-3-3, 170 lb down and 185 lb up at 4-2-15, 170 lb down and 185 lb up at 4-2-15, and 219 lb down and 257 lb up at 7-0-14, and 219 lb down and 257 lb up at 7-0-14 on top chord, and 301 lb down and 546 lb up at 1-5-0, 301 lb down and 546 lb up at 1-5-0, 130 lb down and 178 lb up at 4-2-15, 130 lb down and 178 lb up at 4-2-15, and 100 lb down and 128 lb up at 7-0-14, and 100 lb down and 128 lb up at 7-0-14 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: 1-2=-60, 2-3=-60, 3-5=-60, 8-10=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 3=329 (F=165, B=165), 11=-15 (F=-8, B=-8), 12=-18 (F=-9, B=-9), 14=99 (F=50, B=50), 15=-10 (F=-5, B=-5)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regau PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

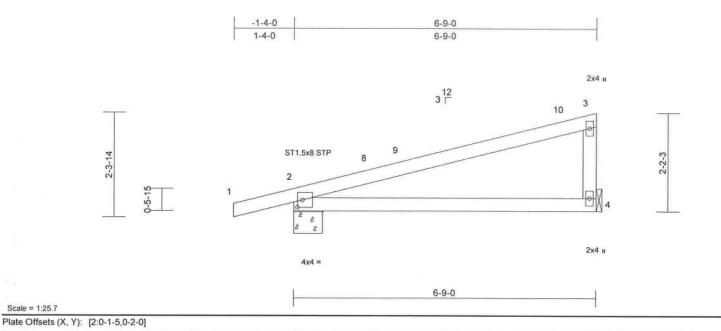
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design valid for use only with Mil lexe connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	J1	Jack-Closed	1	1	Job Reference (optional)	T32098962

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:41 ID:i2oqfbQ0d3cumoDWBsEGStyJgIx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDai7J4zJC?f

Page: 1



LUMBER

Loading

TCDL

BCLL

BCDL

WEBS

TCLL (roof)

Scale = 1:25.7

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied,

(psf)

20.0

10.0

0.0

10.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1 25

1.25

YES

FBC2020/TPI2014

except end verticals Rigid ceiling directly applied.

BOT CHORD REACTIONS (size) 2=0-7-11, 4= Mechanical

Max Horiz 2=124 (LC 9)

Max Uplift 2=-237 (LC 6), 4=-137 (LC 6)

Max Grav 2=352 (LC 1), 4=256 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/19, 2-3=-326/86, 3-4=-251/305

BOT CHORD 2-4=-84/195

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-4-5, Exterior(2R) 2-4-5 to 6-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 4 and 237 lb uplift at joint 2.

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

0.72

0.58

0.00

I/defI

>999

>460

>589

n/a n/a

in (loc)

4-7

4-7

4-7

2

-0.07

-0.17

-0.02

0.13

L/d

360

240

240

PLATES

Weight: 25 lb

MT20

GRIP

244/190

FT = 20%

This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

CSI

TC

BC

WB

Matrix-AS

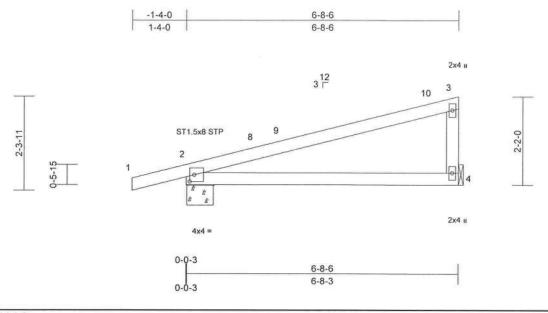
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 88126 MiTek Inc. DBA MiTek USA FL Cert 6634 1623 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Job	Truss	Truss Type	Qty	Ply		
3698546	J2	Jack-Closed	2	1	Job Reference (optional)	T32098963

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries. Inc. Mon Nov 13 14:41:41 ID:TbGrLKW1kXclk1q3fXN8nZyJglp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.4

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

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	0.71	Vert(LL)	-0.07	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.17	4-7	>471	240	100000	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.13	4-7	>600	240	Weight: 25 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS 2=0-7-11, 4= Mechanical (size)

Max Horiz 2=123 (LC 9)

Max Uplift 2=-236 (LC 6), 4=-135 (LC 6)

Max Grav 2=350 (LC 1), 4=254 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/19, 2-3=-324/85, 3-4=-249/303

BOT CHORD 2-4=-83/194

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-3-11, Exterior(2R) 2-3-11 to 6-6-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.

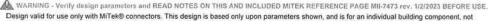
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 4 and 236 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inr. DRA MITek USA FL Cett 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023



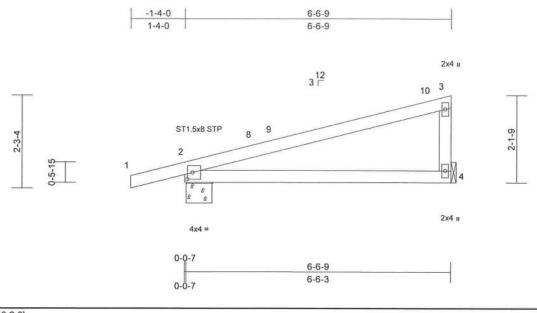
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	J3	Jack-Closed	2	1	Job Reference (optional)	T32098964

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:42 ID:IIe6bNboKNNuSyHC0oUY0qyJgIj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.2

Plate Offsets	s (X, Y):	[2:0-1-9,	0-2-0]
---------------	-----------	-----------	--------

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	0.68	Vert(LL)	-0.06	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.15	4-7	>504	240	ST-SST-MISS	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	.237.07	Wind(LL)	0.12	4-7	>634	240	Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

2=0-7-11, 4= Mechanical REACTIONS (size)

Max Horiz 2=120 (LC 9)

Max Uplift 2=-234 (LC 6), 4=-132 (LC 6)

Max Grav 2=344 (LC 1), 4=248 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/19, 2-3=-320/84, 3-4=-244/299

BOT CHORD 2-4=-80/191

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-1-15, Exterior(2R) 2-1-15 to 6-4-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 132 lb uplift at joint 4 and 234 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.38126 Mi Tek Inc. DBA MiTek USA Fl. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

November 14,2023

16023 Swingley Ridge Rd. 314.434.1200 / MiTek-US.com

					Toob (teleferior (optional)	
3698546	J4	Jack-Closed	2	1	Job Reference (optional)	T32098965
Job	Truss	Truss Type	Qty	Ply		

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:42 ID:6v?NsRgZvC72AlkMM2bzG5yJgld-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

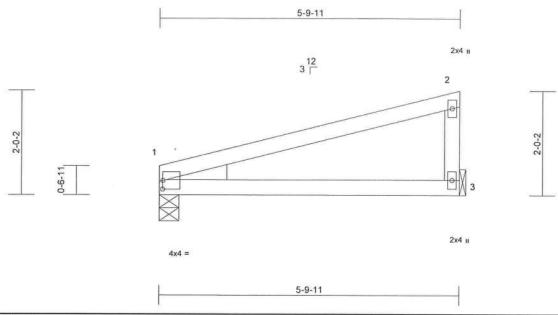


Plate Offsets (X, Y): [1:0-0-1,0-2-0]

Landbea	(mal)	Caratan	200	001		DEE!	900			21221		The second of
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	ın	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.04	3-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.10	3-6	>684	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	1130400-203	Wind(LL)	0.09	3-6	>722	240	Weight: 21 lb	FT = 20%

LUMBER

Scale = 1:22.2

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals. Rigid ceiling directly applied.

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

Max Horiz 1=101 (LC 9)

Max Uplift 1=-112 (LC 6), 3=-126 (LC 10) Max Grav 1=226 (LC 1), 3=226 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-448/173, 2-3=-223/314

BOT CHORD 1-3=-436/239

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 1 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 112 lb uplift at joint 1 and 126 lb uplift at joint 3.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

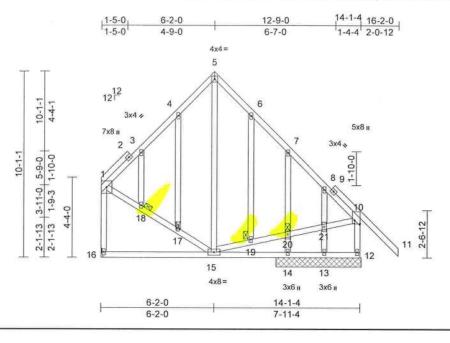
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	M1	Common Structural Gable	1	1	Job Reference (optional)	T32098966

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries. Inc. Mon Nov 13 14:41:42 ID:r?Ch9dL7EHxKe4vQ4hO4PtyJk4U-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.6

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

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	0.58	Vert(LL)	-0.03	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.07	15-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.01	15	>999	240	Weight: 143 lb	FT = 20%

LUMBER

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

BRACING

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

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

9-0-13 oc bracing: 15-16. JOINTS 1 Brace at Jt(s): 17,

18, 19, 20

12=4-7-11, 13=4-7-11, 14=4-7-11, REACTIONS (size)

16= Mechanical

Max Horiz 16=-500 (LC 6) Max Uplift

12=-167 (LC 7), 13=-46 (LC 11)

14=-367 (LC 11), 16=-144 (LC 10) 12=466 (LC 18), 13=73 (LC 3),

Max Grav 14=373 (LC 19), 16=461 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-376/140, 3-4=-359/177, 4-5=-371/223,

5-6=-396/254, 6-7=-422/231, 7-8=-367/176,

8-10=-389/186, 10-11=0/86, 1-16=-501/236,

10-12=-447/172

BOT CHORD 15-16=-409/464, 14-15=-49/82

13-14=-49/82, 12-13=-49/82

5-15=-136/249, 1-18=-110/251, 17-18=-116/234, 15-17=-154/257, 15-19=-189/356, 19-20=-169/342,

20-21=-182/344, 10-21=-180/348,

4-17=-107/108, 3-18=-77/70, 6-19=-82/107,

7-20=-353/312, 14-20=-444/389,

8-21=-281/71, 13-21=-231/64

NOTES

WEBS

Unbalanced roof live loads have been considered for

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-0 to 3-1-0, Exterior(2R) 3-1-0 to 9-2-0, Interior (1) 9-2-0 to 13-2-0, Exterior(2E) 13-2-0 to 16-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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) Bearings are assumed to be: , Joint 13 SP No.2 .
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 16, 167 lb uplift at joint 12, 367 lb uplift at joint 14 and 46 lb uplift at joint 13.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

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

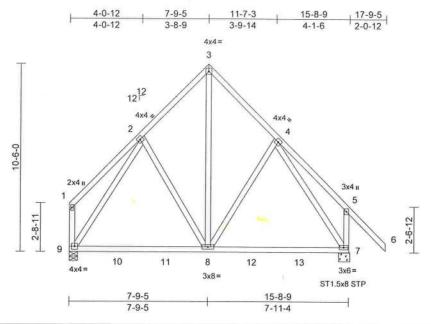
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	M2	Common	1	1	Job Reference (optional)	T32098967

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:43 ID:F6xgwHnLXfb4amEXlyYIPhyJk3v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.5

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)	-0.12	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.20	7-8	>933	240	100,000,000	- 1011 199
BCLL	0.0*	Rep Stress Incr	YES	WB	100	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	RADES:	Wind(LL)	0.01	7-8			Weight: 125 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 7-5:2x4 SP No.1

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)

(size) 7=0-7-11, 9=0-5-8 Max Horiz 9=-495 (LC 6)

Max Uplift 7=-295 (LC 11), 9=-250 (LC 11)

Max Grav 7=828 (LC 18), 9=747 (LC 19)

Tension

(lb) - Maximum Compression/Maximum

1-2=-299/149, 2-3=-804/397, 3-4=-803/389,

4-5=-232/368, 5-6=0/94, 1-9=-313/157, 5-7=-379/440

BOT CHORD 8-9=-250/563, 7-8=-65/545

WEBS 3-8=-376/718, 2-9=-635/250, 4-7=-794/119,

2-8=-279/338, 4-8=-245/341

NOTES

FORCES

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior (1) 3-4-7 to 5-0-0, Exterior(2R) 5-0-0 to 11-0-0, Interior (1) 11-0-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 5) * 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.
- 6) All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 9 and 295 lb uplift at joint 7.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

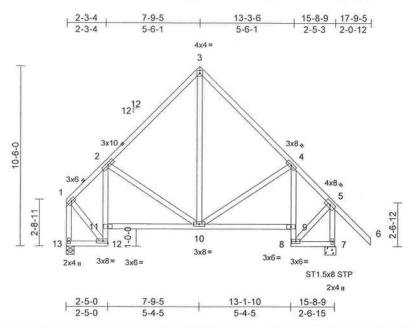
Philip J. O'Regas PE No.88126 MiTek Inc. DBA MITek USA FL Cert 66.4 1602X Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	M3	Roof Special	4	1	Job Reference (optional)	T32098968

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:43 ID:o?U? BbMIE2a63sPAXFTdpyJk2s-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.4

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	0.51	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.09	10-11	>999	180	100000000000	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.15	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		8 6					Weight: 122 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 12-2,4-8:2x4 SP No.3 WEBS

2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-2 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 13=-495 (LC 6)

Max Uplift 7=-295 (LC 11), 13=-250 (LC 11)

Max Grav 7=759 (LC 1), 13=607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-609/191, 2-3=-754/308, 3-4=-754/329, 4-5=-544/288, 5-6=0/94, 1-13=-880/266,

5-7=-943/347

12-13=-436/456, 11-12=-297/229,

2-11=-275/241, 10-11=-384/667, 9-10=-41/619, 8-9=-380/75, 4-9=-357/98,

7-8=-74/123

WEBS

3-10=-187/515, 4-10=-283/332,

2-10=-334/330, 1-12=-229/547, 5-8=-91/667

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior (1) 3-4-7 to 5-0-0, Exterior(2R) 5-0-0 to 11-0-0, Interior (1) 11-0-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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 250 lb uplift at joint 13 and 295 lb uplift at joint 7.

LOAD CASE(S) Standard

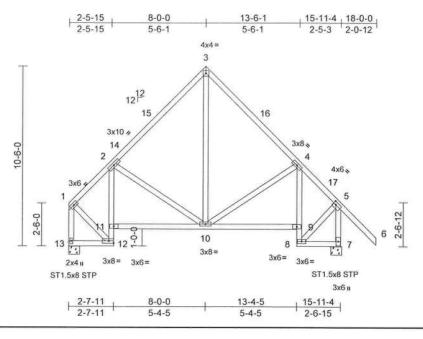
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Phillp J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply		
3698546	M4	Roof Special	4	1	Job Reference (optional)	T32098969

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:44 ID:s9P5i7_RC441y_IZ2FqzwZyJk2M-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	1./d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.05	10-11	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	2.77			21 22	(2.2. (2.4)			5.00 (A. C.)	244/190
				BC	0.63	Vert(CT)	100000	10-11	>999	180		
BCLL		Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.15	7	n/a	n/a	NAMES OF THE PARTY OF THE PARTY OF	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 122 lb	FT = 20%

LUMBER

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

BRACING

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

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

REACTIONS (size) 7=0-7-11, 13=0-7-11

Max Horiz 13=-490 (LC 8)

Max Uplift 7=-299 (LC 11), 13=-250 (LC 11) Max Grav 7=768 (LC 1), 13=616 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-591/208, 2-3=-675/328, 3-4=-675/336, 4-5=-502/327, 5-6=0/94, 1-13=-783/284,

5-7=-881/430

BOT CHORD 12-13=-438/454, 11-12=-260/215,

2-11=-211/226, 10-11=-382/692, 9-10=-43/544, 8-9=-334/77, 4-9=-308/100,

7-8=-74/152

3-10=-197/433, 4-10=-230/331,

2-10=-308/349, 1-12=-230/470, 5-8=-95/589

WEBS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 5-0-0, Exterior(2R) 5-0-0 to 11-0-0, Interior (1) 11-0-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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 250 lb uplift at joint 13 and 299 lb uplift at joint 7.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	M5	Common Girder	1	2	Job Reference (optional)	T32098970

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:44 ID:?Owph2jZr5b0A5ZPnXVImbyJjYQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



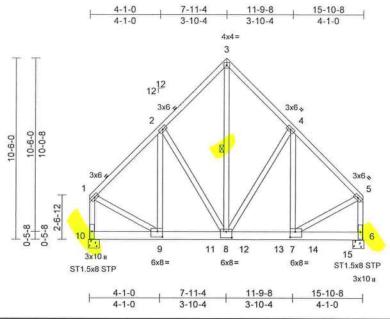


Plate Offsets (X, Y): [7:0-3-8,0-3-12], [8:0-4-0,0-4-4], [9:0-3-8,0-3-12]

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	0.43	Vert(LL)	-0.03	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.06	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.55	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.09	8-9	>999		Weight: 284 lb	FT = 20%

LUMBER

Scale = 1:66.9

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

BRACING

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

bracing.

WEBS 1 Row at midpt 3-8 REACTIONS (size) 6=0-7-11, 10=0-7-11

Max Horiz 10=-430 (LC 25)

Max Uplift 6=-2444 (LC 8), 10=-2100 (LC 9)

Max Grav 6=3926 (LC 15), 10=2706 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-2446/1995, 2-3=-2519/2175, TOP CHORD 3-4=-2518/2175, 4-5=-2846/1987,

1-10=-2736/2195, 5-6=-3151/2168

BOT CHORD 9-10=-411/403, 8-9=-1491/1863, 7-8=-1303/2008, 6-7=-84/87

WEBS

1-9=-1490/1960, 5-7=-1445/2218,

2-9=-414/218 2-8=-231/385

3-8=-2881/3240, 4-8=-720/450, 4-7=-227/819

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows.
 - Top chords connected as follows: 2x4 1 row at 0-9-0
 - Bottom chords connected as follows: 2x6 3 rows staggered at 0-8-0 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.

- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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 2100 lb uplift at joint 10 and 2444 lb uplift at joint 6.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2467 lb down and 2590 lb up at 7-0-12, 852 lb down and 502 lb up at 9-0-12, 808 lb down and 394 lb up at 11-0-12, and 808 lb down and 302 lb up at 13-0-12, and 814 lb down and 260 lb up at 15-0-12 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: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb) Vert: 11=-1466 (B), 12=-731 (B), 13=-731 (B),

14=-731 (B), 15=-737 (B)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply		
3698546	M6	Half Hip Girder	1	1	Job Reference (optional)	T32098971

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:45 ID:a4u_ihV1imLK?ILHdPNSqcyJjoC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

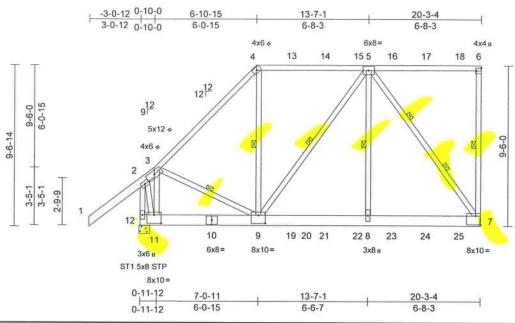


Plate Offsets (X, Y): [6:Edge,0-3-8], [7:Edge,0-6-4], [9:0-5-0,0-5-12], [11:0-5-0,0-6-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	la .	(les)	Udefi	1.64	DIATEO	CDID
				CSI		DEFL	III	(loc)	I/defl	L/a	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.10	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	0.09	8-9	>999	180	(SECULEORS	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		16. 16					Weight: 197 lb	FT = 20%

LUMBER

Scale = 1:68.5

TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 SP No.1, 4-6:2x4 SP 2850F 2.0E or 2x4 SP M 31

BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 6-7,9-5,7-5:2x4 SP

BRACING TOP CHORD Structural wood sheathing directly applied or

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

bracing. WEBS

1 Row at midpt 6-7, 3-9, 4-9, 5-9, 5-8 2 Rows at 1/3 pts

WEBS REACTIONS (size) 7= Mechanical, 11=0-7-11, 12=0-7-11

Max Horiz 12=590 (LC 5)

Max Uplift 7=-2580 (LC 5), 11=-2448 (LC 8), 12=-325 (LC 25)

7=2366 (LC 15), 11=2633 (LC 15), 12=282 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/115, 2-3=-207/222, 3-4=-1946/2017, 4-5=-1314/1610, 5-6=-191/154,

6-7=-303/394, 2-12=-340/263 BOT CHORD 11-12=-563/364, 9-11=-503/343, 8-9=-1552/1358, 7-8=-1552/1358 3-9=-1501/1502, 4-9=-1084/1026,

5-9=-196/234, 5-8=-687/903, 5-7=-2210/2425, 2-11=-242/270,

3-11=-1900/1854

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 11 SP 2400F 2.0E .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2580 lb uplift at joint 7, 325 lb uplift at joint 12 and 2448 lb uplift at joint
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 209 lb down and 230 lb up at 9-0-12, 209 lb down and 230 lb up at 11-0-12, 209 lb down and 227 lb up at 13-0-12, 209 lb down and 230 lb up at 15-0-12, and 209 lb down and 230 lb up at 17-0-12, and 209 lb down and 230 lb up at 19-0-12 on top chord, and 1086 lb down and 1345 lb up at 7-0-0, 174 lb down and 191 lb up at 9-0-12. 174 lb down and 191 lb up at 11-0-12, 174 lb down and 191 lb up at 13-0-12, 174 lb down and 191 lb up at 15-0-12, and 174 lb down and 191 lb up at 17-0-12, and 174 lb down and 191 lb up at 19-0-12 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: 1-2=-60, 2-3=-60, 3-4=-60, 4-6=-60, 7-12=-20 Concentrated Loads (lb)

Vert: 9=-431 (F), 13=-90 (F), 14=-90 (F), 15=-90 (F), 16=-90 (F), 17=-90 (F), 18=-90 (F), 19=-56 (F), 21=-56 (F), 22=-56 (F), 23=-56 (F), 24=-56 (F), 25=-56 (F)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017





3698546	M7	Piggyback Base	1	1	Job Reference (optional)	T32098972
Job	Truss	Truss Type	Qty	Ply		

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:45 ID:PWnhXYnSHrF3GQciTkIrGTyJjnr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

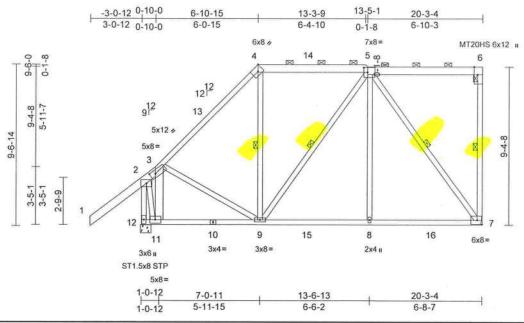


Plate Offsets (X, Y): [3:0-3-12,0-2-8], [4:0-3-8,Edge], [5:0-2-12,0-3-8], [6:0-5-8,Edge]

	In comment of the com											
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)	-0.07	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.12	7-8	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.02	7	n/a	n/a	Vin Value (Value	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.07	7-8	>999	240	Weight: 181 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 6-7:2x4 SP No.2,

11-3:2x6 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins

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

BOT CHORD Rigid ceiling directly applied WEBS 6-7, 4-9, 5-9, 5-7 1 Row at midpt

7= Mechanical, 11=0-7-11, REACTIONS (size)

12=0-7-11 Max Horiz 12=583 (LC 7)

Max Uplift 7=-492 (LC 7), 11=-409 (LC 7),

12=-252 (LC 6)

Max Grav 7=872 (LC 2), 11=1194 (LC 18),

12=183 (LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/116, 2-3=-84/292, 3-4=-766/339,

4-6=-542/389, 6-7=-179/170, 2-12=-261/403 BOT CHORD 11-12=-552/597, 9-11=-475/572,

8-9=-395/811, 7-8=-393/816

3-9=-79/512, 4-9=-45/180, 5-9=-189/170,

5-8=0/406, 5-7=-1130/481, 2-11=-290/368,

3-11=-1104/189

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R) 3-10-12 to 9-11-11, Interior (1) 9-11-11 to 17-2-4, Exterior(2E) 17-2-4 to 20-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 6) 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 11 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 492 lb uplift at joint 7, 252 lb uplift at joint 12 and 409 lb uplift at joint 11.
- 11) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regas PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:



3698546	M8	Piggyback Base	1	1	Job Reference (optional)	T32098973
Job	Truss	Truss Type	Qty	Ply		

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:46 ID:ERcxqUF2IDe9ye?XJbOIRHyJjfU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

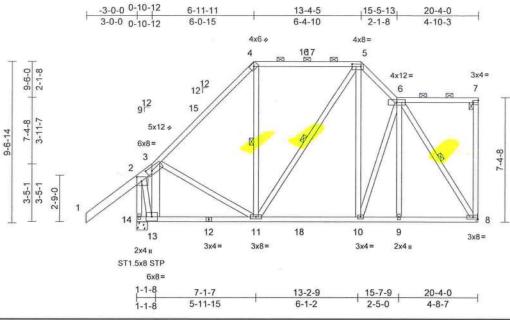


Plate Offsets (X, Y): [2:0-3-8,0-3-0], [3:0-3-12,0-2-8], [5:0-6-4,0-1-12], [7:Edge,0-1-8]

		T	11 (3074) 70760	1								
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	0.86	Vert(LL)	-0.05	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.09	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.03	8-9	>999	240	Weight: 186 lb	FT = 20%

LUMBER

Scale = 1:68.5

TOP CHORD 2x4 SP No.2 *Except* 1-3:2x6 SP No.2

BOT CHORD 2x4 SP No.2 WEBS

2x4 SP No.3 *Except* 13-3:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5. 6-7.

Rigid ceiling directly applied. **BOT CHORD**

WEBS 1 Row at midpt

4-11, 5-11, 6-8 REACTIONS (size) 8= Mechanical, 13=0-7-11,

14=0-7-11

Max Horiz 14=555 (LC 7)

8=-384 (LC 7), 13=-428 (LC 10), Max Uplift

14=-270 (LC 6)

Max Grav 8=828 (LC 2), 13=1123 (LC 18),

14=185 (LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/113, 2-3=-68/238, 3-4=-795/345,

4-5=-561/394, 5-6=-758/473, 6-7=-148/216, 7-8=-153/127, 2-14=-258/344

13-14=-525/469, 11-13=-444/449,

10-11=-310/725, 9-10=-280/706,

8-9=-279/707

WEBS 3-11=-157/504, 4-11=-69/178, 5-11=-154/161,

5-10=-144/342, 6-10=-193/219, 6-9=-27/131,

6-8=-1048/334, 2-13=-260/339,

3-13=-1118/252

NOTES

TOP CHORD

BOT CHORD

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-1-12, Interior (1) 0-1-12 to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R) 3-10-12 to 9-11-11, Interior (1) 9-11-11 to 10-4-5, Exterior(2R) 10-4-5 to 13-4-5, Exterior(2E) 13-4-5 to 15-5-13, Interior (1) 15-5-13 to 17-2-4, Exterior(2E) 17-2-4 to 20-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 13 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 384 lb uplift at joint 8, 270 lb uplift at joint 14 and 428 lb uplift at joint 13.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

3698546	M9	Piggyback Base	1	1	Job Reference (optional)	T32098974
Job	Truss	Truss Type	Qty	Ply		

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:46 ID:J7bug22RIVznsn2DASan7CyJjeS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

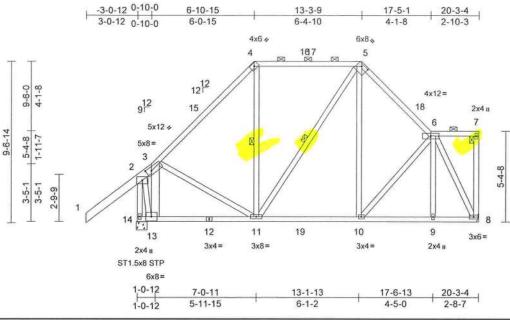


Plate Offsets (X, Y): [3:0-3-12.0-2-8], [5:0-4-12.0-1-8]

W 100 M	51 51	1		1								
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	0.50	Vert(LL)	-0.05	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.08	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	100000000	Wind(LL)	0.01	9-10	>999	240	Weight: 176 lb	FT = 20%

LUMBER

Scale = 1:68.5

TOP CHORD 2x4 SP No.2 *Except* 1-3:2x6 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 13-3:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(6-0-0 max.): 4-5, 6-7. BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 4-11, 5-11

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

14=0-7-11

Max Horiz 14=515 (LC 7)

Max Uplift 8=-292 (LC 11), 13=-407 (LC 10),

14=-273 (LC 6)

Max Grav 8=828 (LC 2), 13=1112 (LC 18),

14=152 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/116, 2-3=-89/277, 3-4=-833/357,

4-5=-587/402, 5-6=-835/435, 6-7=-104/157,

7-8=-74/72, 2-14=-244/280

13-14=-485/356, 11-13=-418/332,

10-11=-253/671, 9-10=-195/605.

8-9=-193/607

WEBS 3-11=-163/505, 4-11=-72/189, 5-11=-177/165,

5-10=-81/307, 6-10=-177/182, 6-9=-5/133,

6-8=-1097/335, 2-13=-271/376,

3-13=-1131/226

NOTES

TOP CHORD

BOT CHORD

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R) 3-10-12 to 9-11-11, Interior (1) 9-11-11 to 10-4-5, Exterior(2R) 10-4-5 to 16-4-5, Interior (1) 16-4-5 to 17-5-13, Exterior(2E) 17-5-13 to 20-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; end vertical left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
-) Bearings are assumed to be: Joint 13 SP No.2.
- 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 8, 273 lb uplift at joint 14 and 407 lb uplift at joint 13.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regas PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	M10	Piggyback Base	2	1	Job Reference (optional)	T32098975

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:47 ID:VKtlF3??8mwarwbPIYUIqsyJjdD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

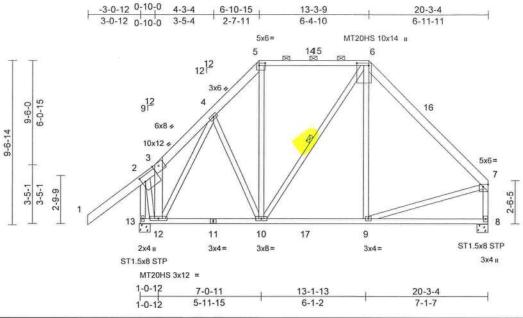


Plate Offsets (X, Y): [2:0-2-4,0-4-0], [5:0-4-4,0-1-12], [6:0-1-12,0-8-4], [7:Edge,0-1-8]

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	0.63	Vert(LL)	-0.06	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.12	8-9	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.01	8	n/a	n/a	A Principle of the Control of the Co	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS	0.050400	Wind(LL)	0.01	9-10	>999	240	Weight: 186 lb	FT = 20%

LUMBER

Scale = 1:67.3

TOP CHORD 2x6 SP No.2 *Except* 5-6:2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3 *Except* 12-3:2x6 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and

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

bracing, Except:

6-0-0 oc bracing: 12-13.

WEBS 1 Row at midpt 6-10

REACTIONS (size) 8=0-7-11, 12=0-7-11, 13=0-7-11

Max Horiz 13=457 (LC 7)

Max Uplift 8=-251 (LC 11), 12=-291 (LC 10), 13=-234 (LC 6)

Max Grav 8=831 (LC 2), 12=815 (LC 18),

13=397 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/116, 2-3=-167/302, 3-4=-190/165,

4-5=-840/446, 5-6=-603/387, 6-7=-932/344,

2-13=-458/383, 7-8=-964/347

BOT CHORD 12-13=-433/369, 10-12=-323/468, 9-10=-192/559, 8-9=-100/137

WERS 5-10=-144/228, 6-10=-200/155, 6-9=0/253,

2-12=-272/389, 7-9=-204/441,

3-12=-349/116, 4-12=-832/265,

4-10=-143/279

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 1-1-13, Exterior(2E) 1-1-13 to 4-4-0, Exterior(2R) 4-4-0 to 9-11-11, Interior (1) 9-11-11 to 10-4-5, Exterior(2R) 10-4-5 to 16-4-5, Interior (1) 16-4-5 to 17-2-4, Exterior (2E) 17-2-4 to 20-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 13, 291 lb uplift at joint 12 and 251 lb uplift at joint 8.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply		
3698546	M11	Piggyback Base	2	1	Job Reference (optional)	T32098976

Run: 8 72 S. Oct. 5 2023 Print: 8 720 S.Oct. 5 2023 MiTek Industries. Inc. Mon Nov. 13 14:41:47 ID:GHBd7dTWiesR3N8GnUbl8AyJjW9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

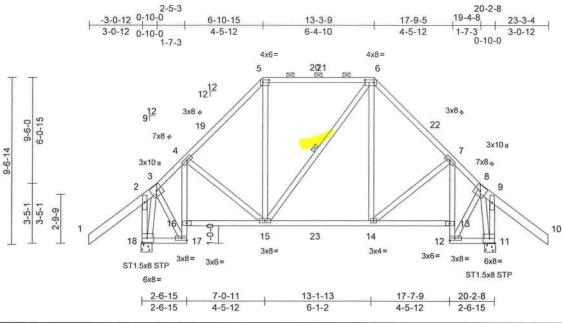


Plate Offsets (X, Y): [5:0-4-4,0-1-12], [6:0-6-4,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	44	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.06	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.10	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.06	15-16	>999	240	Weight: 182 lb	FT = 20%

LUMBER

Scale = 1:66.2

2x4 SP No.2 *Except* 1-3,8-10:2x6 SP No.2 TOP CHORD

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals, and

2-0-0 oc purlins (5-4-11 max.): 5-6

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

bracing.

WEBS 1 Row at midpt 6-15

11=0-7-11, 18=0-7-11 REACTIONS (size) Max Horiz 18=-494 (LC 8)

Max Uplift 11=-404 (LC 11), 18=-404 (LC 10)

Max Grav 11=1034 (LC 2), 18=1027 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/116, 2-3=-366/632, 3-4=-765/186,

4-5=-1045/359, 5-6=-740/363,

6-7=-1041/375, 7-8=-708/254, 8-9=-389/821,

9-10=0/116, 2-18=-700/1060, 9-11=-726/1202

BOT CHORD 17-18=-379/424, 16-17=-386/261,

4-16=-355/266, 15-16=-423/738,

14-15=-186/697, 13-14=-77/695,

12-13=-460/167, 7-13=-428/175, 11-12=-87/277

3-17=-240/593, 4-15=-225/243,

5-15=-62/280, 6-15=-172/173, 6-14=-85/302,

7-14=-170/230, 3-18=-946/3, 8-12=-157/659,

8-11=-1071/124

NOTES

WEBS

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8. Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R) 3-10-12 to 9-11-11, Interior (1) 9-11-11 to 10-4-5, Exterior(2R) 10-4-5 to 16-4-5, Interior (1) 16-4-5 to 19-5-4, Exterior(2E) 19-5-4 to 23-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 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 18 and 404 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

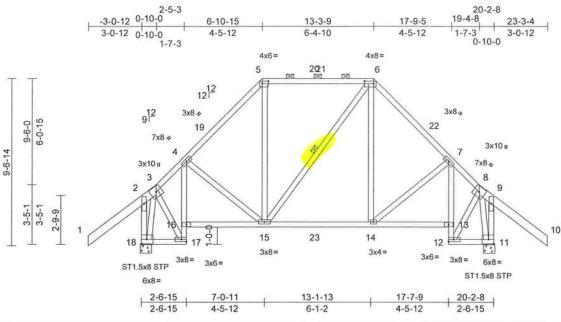
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16923 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply	72 7 7 7 7 7	
3698546	M12	Piggyback Base	1	1	Job Reference (optional)	T32098977

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:48 ID:b2fpyGgB_GaCCiAycsKgiMyJjQk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.2 Plate Offsets (X, Y): [5:0-4-4,0-1-12], [6:0-6-4,0-1-12]

	77754 777											
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	0.59	Vert(LL)	-0.06	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.10	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.06	15-16	>999	240	Weight: 182 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-3,8-10:2x6 SP No.2

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals, and

2-0-0 oc purlins (5-4-11 max.): 5-6.

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

WEBS 1 Row at midpt

11=0-7-11, 18=0-7-11 REACTIONS (size)

Max Horiz 18=-494 (LC 8)

Max Uplift 11=-404 (LC 11), 18=-404 (LC 10)

6-15

Max Grav 11=1034 (LC 2), 18=1027 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/116, 2-3=-366/632, 3-4=-765/186,

4-5=-1045/359, 5-6=-740/363,

6-7=-1041/375, 7-8=-708/254, 8-9=-389/821, 9-10=0/116, 2-18=-700/1060, 9-11=-726/1202

BOT CHORD 17-18=-379/424, 16-17=-386/261,

4-16=-355/266, 15-16=-423/738,

14-15=-186/697, 13-14=-77/695, 12-13=-460/167, 7-13=-428/175,

11-12=-87/277

3-17=-240/593, 4-15=-225/243,

5-15=-62/280, 6-15=-172/173, 6-14=-85/302,

7-14=-170/230, 8-12=-157/659, 3-18=-946/3,

8-11=-1071/124

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R) 3-10-12 to 9-11-11, Interior (1) 9-11-11 to 10-4-5, Exterior(2R) 10-4-5 to 16-4-5, Interior (1) 16-4-5 to 19-5-4, Exterior(2E) 19-5-4 to 23-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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 18 and 404 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	M13	Hip Girder	1	1	Job Reference (optional)	T32098978

Run: 8 72 S. Oct. 5 2023 Print: 8 720 S. Oct. 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:49 ID:q8OR_5vuFYhBqaODFWE0yoyJiM0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

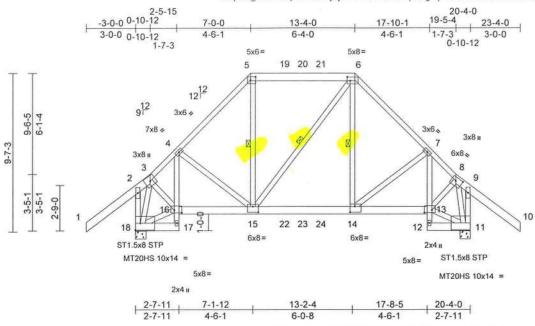


Plate Offsets (X, Y): [5:0-3-12 0-2-8] [6:0-2-4 0-2-12] [8:0-4-12 0-2-8] [11:0-0-0 Edge] [13:0-5-8 0-2-0] [14:0-3-8 0-4-4] [15:0-4-0 0-4-4] [16:0-5-8 0-2-0]

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	0.85	Vert(LL)	0.22	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	0.20	14-15	>999	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	-0.09	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						V-415-010	Weight: 205 lb	FT = 20%

LUMBER

Scale = 1:69.9

TOP CHORD 2x6 SP No.2 *Except* 3-5,6-8:2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except* 17-4,7-12:2x4 SP No.3 WEBS

2x4 SP No.3

BRACING TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 4-2-12 oc

bracing

WERS 1 Row at midpt 5-15, 6-15, 6-14 REACTIONS (size) 11=0-7-11, 18=0-7-11

Max Horiz 18=-485 (LC 6) Max Uplift 11=-2623 (LC 9), 18=-2623 (LC 8)

Max Grav 11=2615 (LC 16), 18=2608 (LC 15) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD

1-2=0/113, 2-3=-489/554, 3-4=-2192/2259,

4-5=-2701/3037, 5-6=-1917/2304, 6-7=-2686/3019, 7-8=-2098/2239,

8-9=-477/550, 9-10=0/113, 2-18=-840/844,

9-11=-824/839

BOT CHORD 17-18=-169/148, 16-17=-5/50,

4-16=-923/1040, 15-16=-1854/1830, 14-15=-2094/2002, 13-14=-1498/1577,

12-13=0/46, 7-13=-830/1000, 11-12=-135/114

WEBS 3-16=-1454/1471, 4-15=-822/782, 5-15=-1586/1354, 6-15=-174/173,

6-14=-1588/1406, 7-14=-720/745, 8-13=-1424/1443, 3-18=-2378/2243,

8-11=-2427/2316, 16-18=-869/885.

11-13=-559/583

NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2623 lb uplift at joint 18 and 2623 lb uplift at joint 11.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 lb down and 161 lb up at 7-0-0, 169 lb down and 161 lb up at 9-0-12, 169 lb down and 156 lb up at 10-2-0, and 169 lb down and 161 lb up at 11-3-4, and 169 lb down and 161 lb up at 13-4-0 on top chord, and 1176 lb down and 1431 lb up at 7-0-0, 218 lb down and 263 lb up at 9-0-12, 218 lb down and 263 lb up at 10-2-0, and 218 lb down and 263 lb up at 11-3-4, and 1176 lb down and 1431 lb up at 13-3-4 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: 1-2=-60, 2-3=-60, 3-5=-60, 5-6=-60, 6-8=-60, 8-9=-60, 9-10=-60, 17-18=-20, 13-16=-20, 11-12=-20 Concentrated Loads (lb)

Vert: 5=-52 (B), 6=-52 (B), 15=-323 (B), 14=-323 (B), 19=-52 (B), 20=-52 (B), 21=-52 (B), 22=-91 (B), 23=-91 (B), 24=-91 (B)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

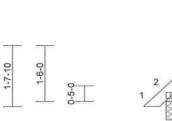


Job	Truss	Truss Type	Qty	Ply		
3698546	PB1	Piggyback	16	1	Job Reference (optional)	T32098979

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:49 ID:J7LvzWMc00KGMaY9M6jbP4yK1zU-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



11 12



4x4 = 2x4 II

2x4 =

Scale = 1:31

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

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	0.04	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a		n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP	00000000					A. 10 COURT	Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-14 oc purlins. BOT CHORD

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

REACTIONS (size)

2=2-4-7, 4=2-4-7, 6=2-4-7, 7=2-4-7,

Max Horiz 2=-56 (LC 8), 7=-56 (LC 8) Max Uplift 2=-40 (LC 10), 4=-47 (LC 11), 6=-26 (LC 10), 7=-40 (LC 10),

11=-47 (LC 11)

2=80 (LC 1), 4=80 (LC 1), 6=79 Max Grav (LC 18), 7=80 (LC 1), 11=80 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-44/67, 3-4=-44/67, 4-5=0/16

2-6=-17/85, 4-6=-17/85 BOT CHORD

WEBS 3-6=-35/6

NOTES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.

- 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 40 lb uplift at joint 2, 47 lb uplift at joint 4, 26 lb uplift at joint 6, 40 lb uplift at joint 2 and 47 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023

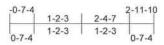
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

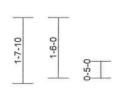


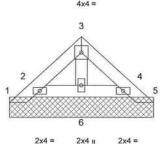
Job	Truss	Truss Type	Qty	Ply	11	
3698546	PB2	Piggyback	2	1	Job Reference (optional)	T32098980

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:50 ID:cTGYRvS?M9CGifaVG4MEBZyK1zN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1









2-4-7

Scale = 1:28.7

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	0.05	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		0.0000000000000000000000000000000000000	20305-000	1117.00	100000		Weight: 12 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-6-14 oc purlins.

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

bracing.

REACTIONS (size)

1=3-6-14, 2=3-6-14, 4=3-6-14, 5=3-6-14, 6=3-6-14, 7=3-6-14,

10=3-6-14

Max Horiz 1=-56 (LC 6)

Max Uplift 1=-48 (LC 8), 2=-74 (LC 10), 4=-55

(LC 11), 5=-2 (LC 9), 6=-21 (LC 10), 7=-74 (LC 10), 10=-55 (LC 11)

Max Grav 1=49 (LC 7), 2=131 (LC 18), 4=96

(LC 19), 5=7 (LC 11), 6=75 (LC 1),

7=131 (LC 18), 10=96 (LC 19)

(lb) - Maximum Compression/Maximum

FORCES

TOP CHORD 1-2=-74/86, 2-3=-50/81, 3-4=-50/81,

4-5=-8/23

BOT CHORD 2-6=-30/95, 4-6=-30/95

WEBS 3-6=-32/6

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For stude 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 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2, 55 lb uplift at joint 4, 48 lb uplift at joint 1, 2 lb uplift at joint 5, 21 lb uplift at joint 6, 74 lb uplift at joint 2 and 55 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

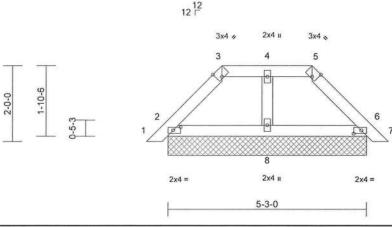


Job	Truss	Truss Type	Qty	Ply		
3698546	PB3	Piggyback	1	1	Job Reference (optional)	T32098981

Run: 8.72 S. Oct. 5.2023 Print: 8.720 S. Oct. 5.2023 MiTek Industries, Inc. Mon Nov.13.14:41:50 ID:4KMmRDbcPQb?jDwUdAzUCbyJjkC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:30.5

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

The second secon		Agricultural - model communications		10071/								
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999	100000000000000000000000000000000000000	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP	***************************************		700700		- Internation		Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 2=5-3-0, 6=5-3-0, 9=5-3-0,

(0.00)

12=5-3-0 Max Horiz 2=-72 (LC 8), 9=-72 (LC 8) Max Uplift 2=-79 (LC 10), 6=-80 (LC 11),

8=-55 (LC 7), 9=-79 (LC 10),

12=-80 (LC 11)

Max Grav 2=151 (LC 1), 6=151 (LC 1), 8=161 (LC 1), 9=151 (LC 1), 12=151 (LC

FORCES (lb) - Maxin

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-129/137, 3-4=-97/148, 4-5=-97/148, 5-6=-129/137, 6-7=0/15

BOT CHORD 2-8=-49/76, 6-8=-31/76

WEBS 4-8=-125/165

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-8 to 2-0-0, Exterior(2R) 2-0-0 to 4-4-10, Exterior(2E) 4-4-10 to 6-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- 5) Provide adequate drainage to prevent water ponding.
- 6) 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.
- 9) * 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 79 lb uplift at joint 2, 80 lb uplift at joint 6, 55 lb uplift at joint 8, 79 lb uplift at joint 2 and 80 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

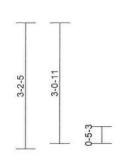
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

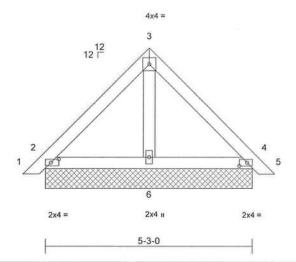


Job	Truss	Truss Type	Qty	Ply		
3698546	PB4	Piggyback	6	1	Job Reference (optional)	T32098982

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:51 ID:oGzYXejt3VsawmhPCG9qciyJjk2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







Scale = 1:29.3

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

	40-200 C-200 A-100 A-200											
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	0.18	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	n/a		n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	100100			211.5	,-unatu		Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

2=5-3-0, 4=5-3-0, 6=5-3-0, 7=5-3-0, REACTIONS (size) 10=5-3-0

> Max Horiz 2=116 (LC 9), 7=116 (LC 9) Max Uplift 2=-80 (LC 11), 4=-88 (LC 11), 6=-32 (LC 10), 7=-80 (LC 11),

10=-88 (LC 11) 2=155 (LC 1), 4=155 (LC 1), 6=154

Max Grav (LC 18), 7=155 (LC 1), 10=155 (LC

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-154/159, 3-4=-154/159, 4-5=0/15

BOT CHORD 2-6=-57/90, 4-6=-34/90

WEBS 3-6=-57/6

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 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 80 lb uplift at joint 2, 88 lb uplift at joint 4, 32 lb uplift at joint 6, 80 lb uplift at joint 2 and 88 lb uplift at joint 4.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Page: 1

Philip J. O'Regan PE No.88126 MiTek Int. DBA MITek USA FI. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

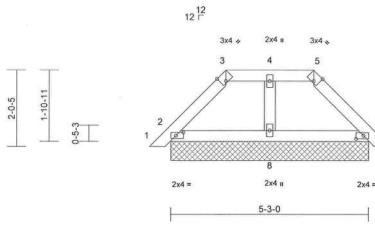
November 14,2023

314 434 1200 / MiTek-US com

Job	Truss	Truss Type	Qty	Ply		
3698546	PB5	Piggyback	1	1	Job Reference (optional)	T32098983

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries. Inc. Mon Nov 13 14:41:51 ID:4cuC?1oGPfkbFrjl6EnTOByJjjx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:30.6 Plate Offsets (X, Y): [2:0-2-6,0-1-0], [3:0-1-8,Edge], [5:0-1-8,Edge], [6:0-2-6,0-1-0]

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	0.07	Vert(LL)	n/a	-	n/a		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	- 5	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size)

2=5-3-0, 6=5-3-0, 8=5-3-0, 9=5-3-0,

12=5-3-0 Max Horiz 2=73 (LC 9), 9=73 (LC 9)

Max Uplift 2=-79 (LC 10), 6=-81 (LC 11),

8=-54 (LC 7), 9=-79 (LC 10),

12=-81 (LC 11)

Max Grav 2=152 (LC 1), 6=152 (LC 1), 8=160 (LC 1), 9=152 (LC 1), 12=152 (LC

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/15, 2-3=-129/137, 3-4=-98/149, 4-5=-98/149, 5-6=-129/137, 6-7=0/15

BOT CHORD 2-8=-50/77, 6-8=-31/77

WEBS 4-8=-123/162

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-8 to 2-0-5, Exterior(2R) 2-0-5 to 4-4-5, Exterior(2E) 4-4-5 to 6-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For study 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.
- 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 79 lb uplift at joint 2, 81 lb uplift at joint 6, 54 lb uplift at joint 8, 79 lb uplift at joint 2 and 81 lb uplift at joint 6.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

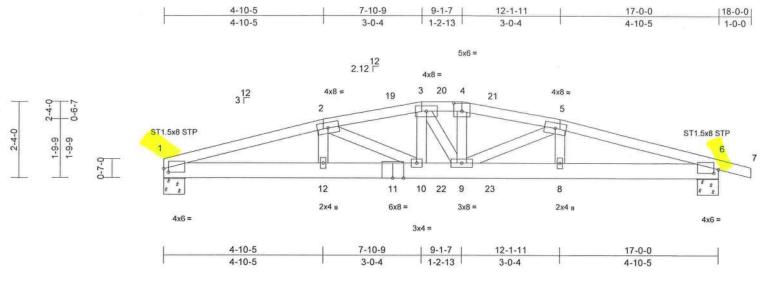
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 5634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	S1	Hip Girder	1	1	Job Reference (optional)	T32098984

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:51 ID:mR72GooaW_?6Vn?oZ1BsJ?yJgAi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35.3

Plate Offsets (X, Y): [1:0-1-11,0-1-5], [4:0-3-0,0-3-6]	0], [6:0-1-11,0-1-5]
---	----------------------

	Median en incare en e	31 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	0.65	Vert(LL)	-0.17	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.31	10	>663	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.25	10	>803	3.5	Weight: 87 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-8-2 oc purlins. BOT CHORD

Rigid ceiling directly applied or 4-8-12 oc bracing.

REACTIONS 1=0-7-11, 6=0-7-11 (size)

Max Horiz 1=-59 (LC 26)

Max Uplift 1=-817 (LC 4), 6=-892 (LC 5) Max Grav 1=1337 (LC 1), 6=1400 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3820/2375, 2-3=-3906/2436,

3-4=-3838/2408, 4-5=-3913/2432,

5-6=-3804/2355, 6-7=0/15

BOT CHORD 1-12=-2283/3667, 10-12=-2283/3667, 9-10=-2337/3831, 8-9=-2212/3651,

6-8=-2212/3651

2-12=-33/62, 2-10=-258/370, 3-10=-240/429,

3-9=-54/75, 4-9=-222/423, 5-9=-256/373,

5-8=-41/67

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed : end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 817 lb uplift at joint 1 and 892 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 127 lb up at 7-0-0, and 132 lb down and 137 lb up at 8-6-0, and 125 lb down and 127 lb up at 10-0-0 on top chord, and 148 lb down and 151 lb up at 4-10-5, 53 lb down and 21 lb up at 7-0-0, 282 lb down and 196 lb up at 7-10-9, 82 lb down and 15 lb up at 8-6-0, 282 lb down and 196 lb up at 9-1-7, and 53 lb down and 21 lb up at 10-0-0, and 148 lb down and 151 Ib up at 12-1-11 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: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 5-7=-60, 13-16=-20

Concentrated Loads (lb)

Vert: 11=-52 (B), 12=-148 (B), 10=-282 (B), 9=-282 (B), 8=-148 (B), 19=-79 (B), 20=-125 (B), 21=-79 (B), 22=-68 (B), 23=-52 (B)

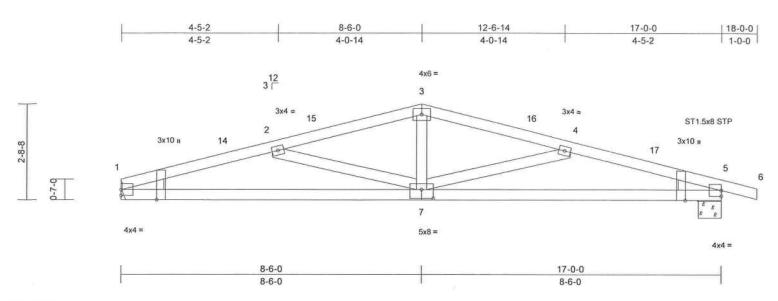
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA Fl. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	S2	Common	1	1	Job Reference (optional)	T32098985

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:52 ID:bbVJWrtL5qmFDiSyvIIGYGyJgAc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:32.6

Plate Offsets (X, Y)	[1:Edge,0-1-15], [1:0-3-6,Edge]	, [5:Edge,0-1-15],	[5:0-3-6,Edge]	, [7:0-4-0,0-3-0]
----------------------	----------------	-------------------	--------------------	----------------	-------------------

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)	-0.07	7	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.16	7-10	>999	240	0.000.00000	(100)
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.09	7-10	>999	240	Weight: 72 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. REACTIONS 1= Mechanical, 5=0-7-11 (size)

Max Horiz 1=-68 (LC 11)

Max Uplift 1=-308 (LC 6), 5=-382 (LC 7)

Max Grav 1=678 (LC 1), 5=742 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-1812/1243, 2-3=-1448/959,

3-4=-1448/958, 4-5=-1804/1187, 5-6=0/15

BOT CHORD 1-5=-1112/1724 WEBS

3-7=-96/402, 4-7=-379/314, 2-7=-392/343

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-6-0, Exterior(2R) 5-6-0 to 11-6-0, Interior (1) 11-6-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 5) * 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 1 and 382 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Page: 1

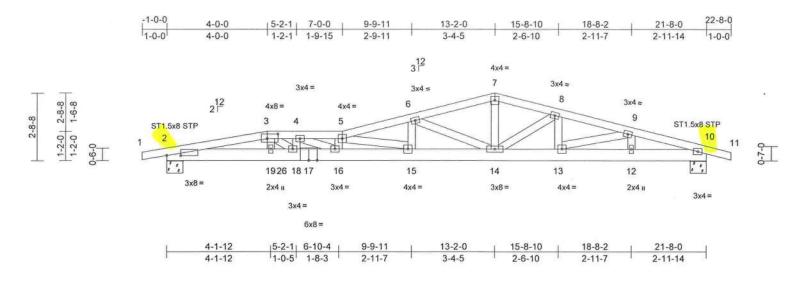
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	S3	Roof Special Girder	1	2	T32098986 Job Reference (optional)

Run: 8 72 S. Oct. 5 2023 Print: 8 720 S. Oct. 5 2023 MiTek Industries. Inc. Mon Nov. 13 14:41:53 ID:xLzVLV40NSU0L1Uekg0e7SyJg5B-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:46.3

r nata amada (r.q. r.y.	face a cate a c	31 (
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	0.38	Vert(LL)	-0.21	15-16	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.41	15-16	>640	240			
BCLL	0.0*	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.04	10	n/a	n/a			
BCDI	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.30	15-16	>879	240	Weight: 233 lh	FT = 20%	

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-6 oc purlins.

BOT CHORD Rigid ceiling directly applied or 8-3-4 oc

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

bracing.

REACTIONS 2=0-7-11, 10=0-7-11 (size)

Max Horiz 2=-63 (LC 13)

Max Uplift 2=-845 (LC 4), 10=-531 (LC 5) Max Grav 2=1522 (LC 1), 10=1080 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/10, 2-3=-5798/3043, 3-4=-6921/3599,

4-5=-6977/3537, 5-6=-4457/2184, 6-7=-2585/1206, 7-8=-2578/1216,

8-9=-2815/1234, 9-10=-2583/1124,

10-11=0/15

BOT CHORD 2-19=-3010/5698, 18-19=-3009/5700, 16-18=-3602/6921, 15-16=-3579/7053,

14-15=-2105/4320, 13-14=-1145/2719, 12-13=-1037/2478, 10-12=-1037/2478

3-19=-98/184, 5-16=-420/275,

5-15=-2840/1531, 7-14=-462/1063,

6-15=-485/1038, 6-14=-2008/1100,

8-13=-14/96, 8-14=-326/242, 9-13=-161/297,

9-12=-226/152, 4-16=-408/384,

4-18=-179/247, 3-18=-715/1473

NOTES

WEBS

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.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 845 lb uplift at joint 2 and 531 lb uplift at joint 10.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 77 lb up at 4-0-0 on top chord, and 221 lb down and 150 lb up at 4-0-0, and 486 lb down and 263 lb up at 4-7-4 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: 1-3=-60, 3-5=-60, 5-7=-60, 7-11=-60, 20-23=-20

Concentrated Loads (lb) Vert: 3=-41 (B), 19=-221 (B), 26=-486 (B)

> This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. \$8126 Mi Tek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	UA1	Piggyback Base Supported Gable	2	1	Job Reference (optional)	T32098987

Run: 8.72 S. Oct. 5.2023 Print: 8.720 S. Oct. 5.2023 MiTek Industries. Inc. Mon. Nov. 13.14-41-53 ID:uB0eVQIPkzElo2qFCd8yrXyK2_s-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

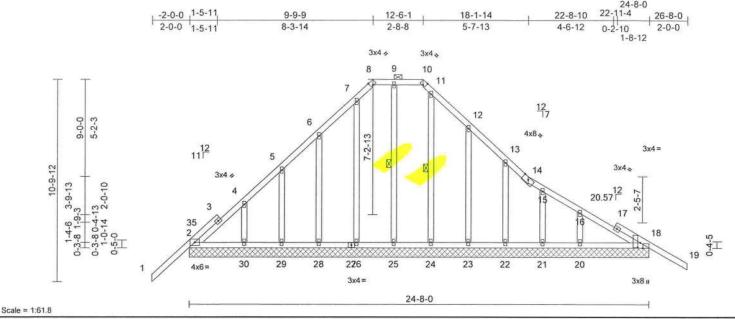


Plate Offsets (X, Y): [8:0-1-10,Edge], [10:0-1-10,Edge], [18:0-3-0,0-1-12], [18:0-1-9,Edge]

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	0.54	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	5	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	31	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Ja twit theoretic et al.					Weight: 172 lb	FT = 20%

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

2x4 SP No.3

OTHERS BRACING TOP CHORD

Structural wood sheathing directly applied, 2-0-0 oc purlins (6-0-0 max.): 8-10.

BOT CHORD Rigid ceiling directly applied 11-24, 9-25

WEBS 1 Row at midpt REACTIONS (size)

2=24-8-0, 18=24-8-0, 20=24-8-0. 21=24-8-0, 22=24-8-0, 23=24-8-0, 24=24-8-0, 25=24-8-0, 26=24-8-0. 28=24-8-0, 29=24-8-0, 30=24-8-0,

31=24-8-0 Max Horiz 2=397 (LC 9)

2=-117 (LC 6), 18=-72 (LC 11), Max Uplift 20=-134 (LC 11), 21=-114 (LC 11),

22=-168 (LC 11), 23=-212 (LC 11), 24=-7 (LC 6), 25=-58 (LC 7), 26=-70 (LC 10), 28=-204 (LC 10), 29=-203 (LC 10), 30=-111 (LC 10),

31=-72 (LC 11) Max Grav 2=283 (LC 24), 18=292 (LC 1),

20=262 (LC 19), 21=149 (LC 19), 22=197 (LC 19), 23=209 (LC 19), 24=153 (LC 25), 25=200 (LC 21), 26=195 (LC 18), 28=201 (LC 18).

> 29=203 (LC 18), 30=182 (LC 18), 31=292 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/81, 2-4=-335/273, 4-5=-215/236,

5-6=-151/193, 6-7=-130/258, 7-8=-155/283, 8-9=-135/271, 9-10=-135/271, 10-11=-148/264, 11-12=-143/281

12-13=-74/123, 13-14=-83/99, 14-15=-90/83,

15-16=-166/114, 16-18=-287/163, 18-19=0/60

BOT CHORD 2-30=-163/349 29-30=-162/348 28-29=-162/348, 26-28=-162/348 25-26=-162/348, 24-25=-162/348

23-24=-162/348, 22-23=-162/348,

21-22=-162/348, 20-21=-162/348, 18-20=-162/348

WEBS 11-24=-113/27, 9-25=-160/79, 7-26=-155/90, 6-28=-205/226, 5-29=-179/214, 4-30=-233/150, 12-23=-200/232 13-22=-191/188, 15-21=-140/148,

16-20=-246/155

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 0-8-12, Exterior(2N) 0-8-12 to 6-9-9, Corner(3R) 6-9-9 to 15-6-1, Exterior(2N) 15-6-1 to 23-7-8, Corner(3E) 23-7-8 to 26-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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 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.

- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2, 72 lb uplift at joint 18, 7 lb uplift at joint 24, 58 lb uplift at joint 25, 70 lb uplift at joint 26, 204 lb uplift at joint 28, 203 lb uplift at joint 29, 111 lb uplift at joint 30, 212 lb uplift at joint 23, 168 lb uplift at joint 22, 114 lb uplift at joint 21, 134 lb uplift at joint 20 and 72 lb uplift at joint
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA Fl. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63617

November 14,2023

Continued on page 2

FORCES

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	UA1	Piggyback Base Supported Gable	2	1	Job Reference (optional)	T32098987

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:53 ID:uB0eVQIPkzElo2qFCd8yrXyK2_s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

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

LOAD CASE(S) Standard

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
3698546	UA2	Piggyback Base	8	1	Job Reference (optional)	T32098988

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:54 ID:nkk8MhlkCkO7Fz3hw3CyxwyK1sX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

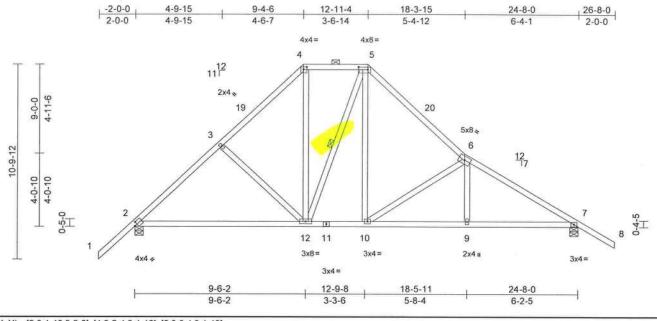


Plate Offsets (X, Y): [2:0-1-13,0-2-0], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12]

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)	-0.17	12-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.35	12-15	>847	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	765727.00	Wind(LL)	0.07	9-18	>999	240	Weight: 153 lb	FT = 20%

LUMBER

Scale = 1:64

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (6-0-0 max.): 4-5.

BOT CHORD

Rigid ceiling directly applied. 1 Row at midpt 5-12

WEBS

REACTIONS (size)

2=0-5-8, 7=0-5-8

Max Horiz 2=397 (LC 9)

Max Uplift 2=-446 (LC 10), 7=-479 (LC 11)

Max Grav 2=1107 (LC 1), 7=1107 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/81, 2-3=-1423/519, 3-4=-1256/523,

4-5=-910/492, 5-6=-1285/536,

6-7=-1852/594, 7-8=0/60

BOT CHORD 2-12=-362/997, 10-12=-110/749,

9-10=-320/1510, 7-9=-317/1516 WEBS

3-12=-392/368, 4-12=-222/523,

5-12=-187/206, 5-10=-248/550,

6-10=-929/502, 6-9=0/268

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 6-4-6, Exterior(2R) 6-4-6 to 15-11-4, Interior (1) 15-11-4 to 23-8-0, Exterior(2E) 23-8-0 to 26-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 446 lb uplift at joint 2 and 479 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 88126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply		,
3698546	UA3	Piggyback Base	8	1	Job Reference (optional)	T32098989

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14;41:55 ID:UfKvS5t0spfiSVqcVAOIL1yK1sN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

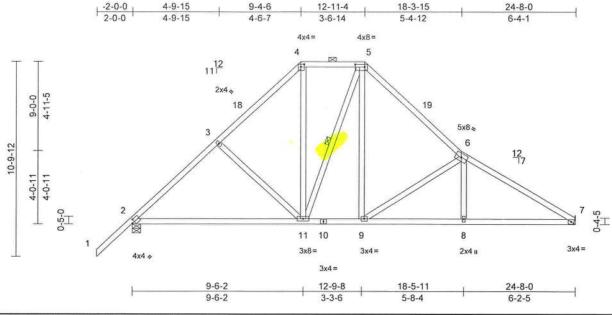


Plate Offsets (X, Y): [2:0-1-13,0-2-0], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12]

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	0.47	Vert(LL)	-0.17	11-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.35	11-17	>848	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.10	8-14	>999	240	Weight: 150 lb	FT = 20%

LUMBER

Scale = 1:64

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied. 1 Row at midpt 5-11

WEBS REACTIONS

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

Max Horiz 2=382 (LC 9)

Max Uplift 2=-448 (LC 10), 7=-387 (LC 11)

Max Grav 2=1112 (LC 1), 7=982 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/81, 2-3=-1426/530, 3-4=-1259/534,

TOP CHORD 4-5=-912/501, 5-6=-1289/552, 6-7=-1866/642

BOT CHORD 2-11=-394/978, 9-11=-130/731,

8-9=-458/1502, 7-8=-457/1509 3-11=-392/368, 4-11=-226/525,

5-11=-189/207, 5-9=-259/554, 6-9=-942/531,

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 6-4-6, Exterior(2R) 6-4-6 to 15-11-4, Interior (1) 15-11-4 to 21-8-0, Exterior(2E) 21-8-0 to 24-8-0 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=160

- 3) 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 387 lb uplift at joint 7 and 448 lb uplift at joint 2.
- 10) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	UB1	Common Supported Gable	1	1	Job Reference (optional)	T32098990

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:55 ID:G?ODrHa0zx4K1ZrxT3y7ETyK1rS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7J4zJC?f

Page: 1

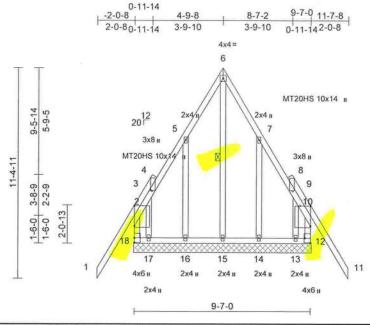


Plate Offsets (X, Y): [2:1-1-3,Edge], [3:0-0-7,0-1-0], [9:0-0-7,0-1-0], [10:1-1-3,Edge], [12:Edge,0-3-8]

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)	n/a	- 2	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	n/a	52	n/a	999	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.00	12	n/a	n/a	100 MARTINE (1000)	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR		1000 000 000 000 000 000 000 000 000 00				CMESTER	Weight: 102 lb	FT = 20%

LUMBER

Scale = 1:62.5

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

BRACING

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

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

bracing

WEBS 1 Row at midpt 6-15

REACTIONS (size)

12=9-8-0, 13=9-8-0, 14=9-8-0, 15=9-8-0, 16=9-8-0, 17=9-8-0,

18=9-8-0 Horiz 18=-570 (LC 8)

Max Horiz 18=-5

Max Uplift 12=-734 (LC 7), 13=-568 (LC 6), 14=-372 (LC 11), 15=-16 (LC 9),

16=-372 (LC 10), 17=-585 (LC 7),

18=-765 (LC 6)

Max Grav 12=627 (LC 18), 13=616 (LC 9), 14=291 (LC 19), 15=824 (LC 11),

16=292 (LC 18), 17=637 (LC 8),

18=655 (LC 19)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 2-18=-40

2-18=-405/767, 1-2=0/110, 2-3=-365/699, 3-5=-254/383, 5-6=-336/776, 6-7=-335/777,

7-9=-235/380, 9-10=-339/619, 10-11=0/110,

10-12=-387/675 BOT CHORD 17-18=-300/313

17-18=-300/313, 16-17=-300/313, 15-16=-300/313, 14-15=-300/313,

13-14=-300/313, 12-13=-300/313

6-15=-1191/404, 5-16=-450/442,

3-17=-806/240, 7-14=-446/446,

9-13=-716/234

NOTES

WEBS

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 0-10-0, Exterior(2N) 0-10-0 to 1-10-0, Corner(3R) 1-10-0 to 7-10-0, Exterior (2N) 7-10-0 to 8-8-0, Corner(3E) 8-8-0 to 11-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- 6) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 765 lb uplift at joint 18, 734 lb uplift at joint 12, 16 lb uplift at joint 15, 372 lb uplift at joint 16, 585 lb uplift at joint 17, 372 lb uplift at joint 14 and 568 lb uplift at joint 13.

LOAD CASE(S) Standard

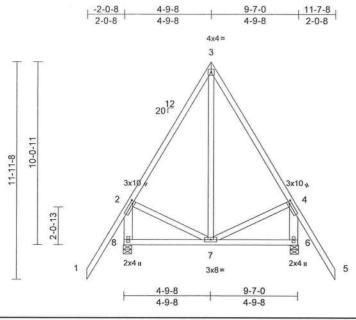
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

Job	Truss	Truss Type	Qty	Ply		
3698546	UB2	Common	2	1	Job Reference (optional)	T32098991

Run; 8.72 S. Oct. 5.2023 Print; 8.720 S.Oct. 5.2023 MiTek Industries. Inc. Mon. Nov. 13.14:41:56 ID:wOETedYC7W9_dsyJ9sNuULyK1qC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.5

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

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	0.75	Vert(LL)	-0.01	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.00	7	>999	240	Weight: 92 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 8-2,6-4:2x6 SP No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (size) 6=0-5-8, 8=0-5-8

Max Horiz 8=-619 (LC 8)

Max Uplift 6=-251 (LC 10), 8=-251 (LC 11) Max Grav 6=536 (LC 18), 8=536 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-2=0/117, 2-3=-455/279, 3-4=-455/279, TOP CHORD 4-5=0/117, 2-8=-494/338, 4-6=-510/294

BOT CHORD 7-8=-562/609, 6-7=-21/432

WEBS 3-7=-221/312, 2-7=-332/411, 4-7=-310/412

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 1-10-0, Exterior(2R) 1-10-0 to 7-10-0, Interior (1) 7-10-0 to 8-8-0, Exterior(2E) 8-8-0 to 11-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

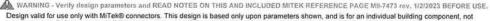
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 8 and 251 lb uplift at joint 6.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 14,2023



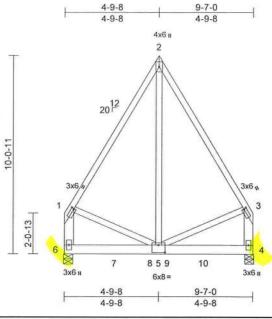
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply		
3698546	UB3	Common Girder	1	2	Job Reference (optional)	T32098992

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:56 ID:ESQNn9hDRvTsM3_L0X3O9gyK1nR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.5

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

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	0.47	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	4-5	>999		Weight: 174 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 6-1,4-3:2x6 SP No.2 WEBS

BRACING

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

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

bracing.

REACTIONS 4=0-5-8, 6=0-5-8 (size) Max Horiz 6=-446 (LC 6)

> Max Uplift 4=-1405 (LC 8), 6=-1405 (LC 9) Max Grav 4=3257 (LC 1), 6=3257 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-1751/861, 2-3=-1751/861, 1-6=-1823/851, 3-4=-1823/851

BOT CHORD 5-6=-541/562, 4-5=-207/175

WEBS 2-5=-1125/2538, 1-5=-488/840, 3-5=-492/843

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. 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.

- 4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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 1405 lb uplift at joint 6 and 1405 lb uplift at joint 4.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 969 Ib down and 394 lb up at 0-3-4, 962 lb down and 397 lb up at 2-6-12, 962 lb down and 397 lb up at 4-4-12, 962 lb down and 397 lb up at 5-3-4, and 962 lb down and 397 lb up at 7-1-4, and 969 lb down and 394 lb up at 9-4-12 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: 1-2=-60, 2-3=-60, 4-6=-20

Concentrated Loads (lb)

Vert: 6=-969 (B), 4=-969 (B), 7=-962 (B), 8=-962 (B), 9=-962 (B), 10=-962 (B)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regau PE No. S\$126 MiTek Inc. DBA MiTek USA FL Cert 66.34 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 14,2023

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

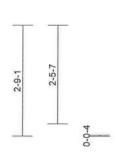


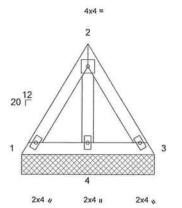
Job	Truss	Truss Type	Qty	Ply		
3698546	V3	Valley	1	1	Job Reference (optional)	T32098993

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:56 ID:nWMtUnrOTcLx5pipuxkVaEyK2lp-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







3-3-6

Sca	le	=	1	:2	8	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	0.05	Vert(LL)	n/a		n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	n/a	12	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP	- Mag-aux-	in the state of th				100000	Weight: 16 lb	FT = 20%	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-6 oc purlins.

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

bracing.

REACTIONS (size) 1=3-3-11, 3=3-3-11, 4=3-3-11

Max Horiz 1=110 (LC 7)

Max Uplift 1=-25 (LC 6), 4=-135 (LC 10)

Max Grav 1=71 (LC 19), 3=54 (LC 25), 4=177

(LC 18)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-69/62, 2-3=-61/45

BOT CHORD 1-4=-99/108, 3-4=-99/108

WERS 2-4=-116/62

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- 6) Gable studs spaced at 2-0-0 oc.

- 7) 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 25 lb uplift at joint 1 and 135 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

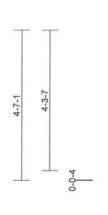
Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA Fl. Cert 6634 16023 Swingley Ridge Rd. Chexterfield, MO 63917

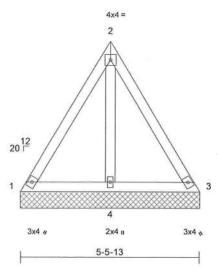


Job	Truss	Truss Type	Qty	Ply		
3698546	V6	Valley	1	1	Job Reference (optional)	T32098994

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:57 ID:JbKwrF1QiXMg0GwuqI1FEcyK2IZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







Scale = 1:35.3

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	0.21	Vert(LL)	n/a	100	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(TL)	n/a		n/a	999	1000000000	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		19-10					Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERR	0. 4 00 11 0

OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-13 oc purlins

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

bracing.

REACTIONS 1=5-6-2, 3=5-6-2, 4=5-6-2 (size)

Max Horiz 1=-191 (LC 6)

Max Uplift 1=-40 (LC 8), 4=-311 (LC 10)

Max Grav 1=110 (LC 20), 3=92 (LC 21),

4=335 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-204/164, 2-3=-195/164 1-4=-209/212, 3-4=-209/212

BOT CHORD WEBS 2-4=-348/246

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For stude 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 2-0-0 oc.

- 7) 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 40 lb uplift at joint 1 and 311 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

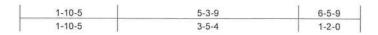
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA F1, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017



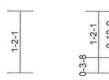
Job	Truss	Truss Type	Qty	Ply		
3698546	V7	Valley	1	1	Job Reference (optional)	T32098995

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:57 ID:x9Yn2xh?N6vnztuSEtRbhCyJg4O-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

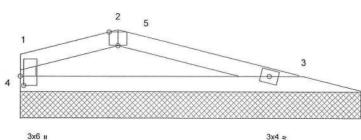
Page: 1











Scale = 1:21.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	n/a	(100)	n/a	1100000000	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(TL)	n/a	_	n/a	999		244700
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-R	10 (0.000)	22/10/10/10/10/10/10/10/10/10/10/10/10/10/				i sarcicii	Weight: 18 lb	FT = 20%

LUMBER

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

2x4 SP No.3 WEBS BRACING TOP CHORD

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 9-8-14 oc

bracing.

REACTIONS (size) 3=6-5-9, 4=6-5-9 Max Horiz 4=-25 (LC 11)

Max Uplift 3=-100 (LC 7), 4=-84 (LC 6) Max Grav 3=206 (LC 1), 4=206 (LC 1)

(lb) - Maximum Compression/Maximum

Structural wood sheathing directly applied or

Tension

TOP CHORD 1-4=-191/296, 1-2=-359/478, 2-3=-350/432

BOT CHORD 3-4=-356/309

NOTES

FORCES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 1-10-5, Exterior(2R) 1-10-5 to 2-3-9, Exterior(2E) 2-3-9 to 5-3-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 2-0-0 oc.

- 7) 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 84 lb uplift at joint 4 and 100 lb uplift at joint 3.

LOAD CASE(S) Standard

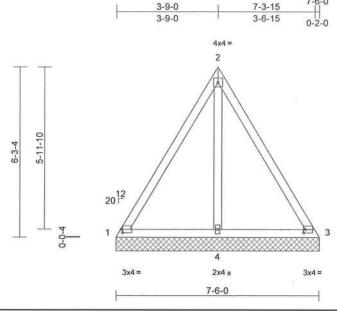
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss	Truss Type	Qty	Ply		
3698546	V8	Valley	1	1	Job Reference (optional)	T32098996

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:58 ID:48pyW_8Rp_NX_VXQIzA7YIyK2IR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42	2.0
--------------	-----

Plate Offsets	(X, Y):	[1:0-0-10,0-1-8],	[3:0-0-13,0-1-8]
---------------	---------	-------------------	------------------

	• *************************************			100							2	
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	0.34	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(TL)	n/a	-	n/a	999	100000000000000000000000000000000000000	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horiz(TL)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS			- 0.000				Weight: 40 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 7-6-0 oc purlins.

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

bracing.

1=7-6-5, 3=7-6-5, 4=7-6-5 REACTIONS (size)

Max Horiz 1=-265 (LC 6)

Max Uplift 1=-66 (LC 8), 3=-12 (LC 9), 4=-455

(LC 10)

Max Grav 1=156 (LC 10), 3=128 (LC 21),

4=476 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-357/292, 2-3=-339/292 1-4=-275/288, 3-4=-275/288

BOT CHORD WEBS

2-4=-572/417

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 4-6-5, Exterior(2E) 4-6-5 to 7-6-5 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 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 66 lb uplift at joint 1, 12 lb uplift at joint 3 and 455 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

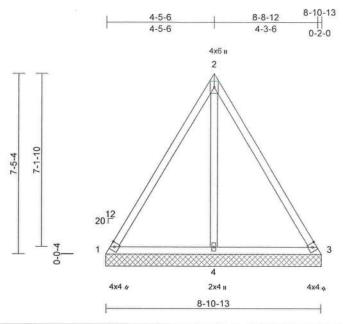
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply		
3698546	V9A	Valley	1	1	Job Reference (optional)	T32098997

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:58 ID:yAauwAOctR0Z?jeT1u22vjyK2l6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.6

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	0.51	Vert(LL)	n/a	A 2	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(TL)	n/a	S2	n/a	999	10000000000000000000000000000000000000	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horiz(TL)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS				-		7.070.041.0	Weight: 48 lb	FT = 20%

LUMBER

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

BRACING

2x4 SP No.3 OTHERS

TOP CHORD Structural wood sheathing directly applied or 8-4-10 oc purlins

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

bracing.

REACTIONS 1=8-11-1, 3=8-11-1, 4=8-11-1 (size)

Max Horiz 1=317 (LC 9)

Max Uplift 1=-94 (LC 8), 3=-31 (LC 9), 4=-617

(LC 10)

1=225 (LC 10), 3=187 (LC 11), Max Grav

4=604 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-515/442, 2-3=-494/442

1-4=-355/366, 3-4=-355/366 BOT CHORD

2-4=-784/588 WEBS

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 5-11-1, Exterior(2E) 5-11-1 to 8-11-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 94 lb uplift at joint 1, 31 lb uplift at joint 3 and 617 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

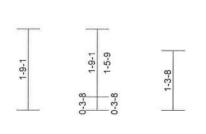
Philip J. O'Regan PE No. 88126 MiTek Inc. DBA MITEK USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

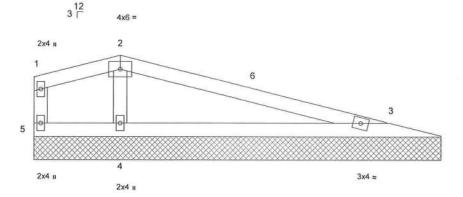


Job	Truss	Truss Type	Qty	Ply		
3698546	V9B	Valley	1	1	Job Reference (optional)	T32098998

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries Inc. Mon Nov 13 14:41:58 ID:AubBx0oeFt1WYF4AFG5iY5yJg4F-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

1-10-5	7-7-9	8-9-9
1-10-5	5-9-4	1-2-0





8-9-9

Sca	le	=	1	:25

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	0.64	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(TL)	n/a	14	n/a	999	A. 000 COMMENT	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S		1.000.1000				110-2411	Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 8-10-9 oc purlins, except end verticals.

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

REACTIONS (size) 3=8-9-9, 4=8-9-9, 5=8-9-9

Max Horiz 5=-56 (LC 6)

3=-103 (LC 7), 4=-203 (LC 7), Max Uplift

5=-94 (LC 25)

Max Grav 3=194 (LC 1), 4=461 (LC 1), 5=32

(LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-5=-30/55, 1-2=-31/47, 2-3=-76/68

TOP CHORD

4-5=-27/151, 3-4=-27/151

BOT CHORD WEBS 2-4=-379/571

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 1-10-5, Exterior(2R) 1-10-5 to 4-7-9, Exterior(2E) 4-7-9 to 7-7-9 zone; cantilever left and right exposed; end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For study 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 94 lb uplift at joint 5, 103 lb uplift at joint 3 and 203 lb uplift at joint 4.

LOAD CASE(S) Standard

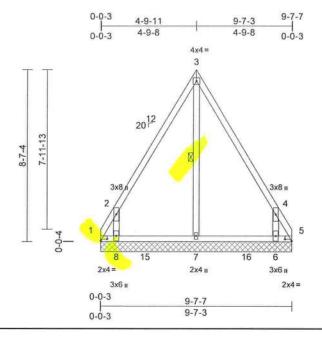
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regau PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16025 Swingley Ridgo Rd. Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply		
3698546	V10	Valley	1	1	Job Reference (optional)	T32098999

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:59 ID:nbTal1g2SWwlFFuutDyRLayK2Hl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.8

Approximate the second of the												
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	0.59	Vert(LL)	n/a	S. 5	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(TL)	n/a	12	n/a	999	1277027077	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horiz(TL)	0.01	5	n/a	n/a	l	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		111 211					Weight: 59 lb	FT = 20%

LUMBER

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

OTHERS 2x4 SP No.3

BRACING

WERS

TOP CHORD Structural wood sheathing directly applied or 5-8-13 oc purlins.

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

bracing.

1 Row at midpt 3-7

REACTIONS (size) 1=9-7-0, 5=9-7-0, 6=9-7-0, 7=9-7-0,

8=9-7-0 9=9-7-0 Max Horiz 1=-355 (LC 6), 9=-355 (LC 6)

Max Uplift 1=-820 (LC 8), 6=-548 (LC 11), 7=-456 (LC 9), 8=-935 (LC 10),

9=-820 (LC 8) 1=831 (LC 7), 6=522 (LC 19),

Max Grav 7=900 (LC 11), 8=793 (LC 18), 9=831 (LC 7)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-908/876, 2-3=-600/718, 3-4=-589/570, 4-5=-292/220

BOT CHORD 1-8=-149/166, 7-8=-12/60, 6-7=-12/60,

5-6=-91/104

WEBS 3-7=-929/680, 2-8=-1020/1086, 4-6=-943/966

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-0-3 to 2-11-13, Exterior(2R) 2-11-13 to 6-7-3, Exterior(2E) 6-7-3 to 9-7-3 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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, 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 820 lb uplift at joint 1, 456 lb uplift at joint 7, 935 lb uplift at joint 8, 548 lb uplift at joint 6 and 820 lb uplift at joint 1.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5, 9.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

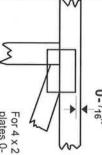
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date.

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

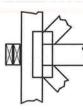
the length parallel to slots to slots. Second dimension is width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

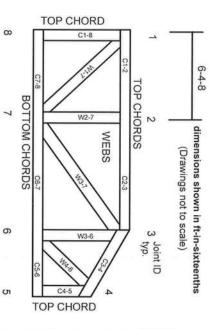
Industry Standards:

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

DSB-22

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

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

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

© 2023 MiTek® All Rights Reserved

<</p>

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- 1. Additional stability bracing for truss system, e.g.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties
- Cut members to bear tightly against each other
- locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- shall not exceed 19% at time of fabrication Unless otherwise noted, moisture content of lumber
- use with fire retardant, preservative treated, or green lumber. Unless expressly noted, this design is not applicable for
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 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
- Top chords must be sheathed or purlins provided at spacing indicated on design
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or after 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated