

Truss Name

V2

V3

V4



RE: Lot 35 OS Lot 35 OS MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Date

3/31/2021

3/31/2021

3/31/2021

Site Information:

Customer: Project Name: Lot 35 OS

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7 - 16[Low Rise] Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#
1	145424710	B1	3/31/2021	21	145424730
2	145424711	B2	3/31/2021	22	145424731
3	145424712	B3	3/31/2021	23	145424732
4	145424713	B4	3/31/2021		
5	145424714	B5	3/31/2021		
6	145424715	B6	3/31/2021		
7	145424716	C1	3/31/2021		
8	145424717	C2	3/31/2021		
9	145424718	C3	3/31/2021		
10	145424719	C4	3/31/2021		
11	145424720	C5	3/31/2021		
12	145424721	D1	3/31/2021		
13	145424722	D2	3/31/2021		
14	145424723	D3	3/31/2021		
15	145424724	D4	3/31/2021		
16	145424725	D5	3/31/2021		
17	145424726	D6	3/31/2021		
18	145424727	D7	3/31/2021		
19	145424728	D8	3/31/2021		
20	145424729	V1	3/31/2021		

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

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: 001193

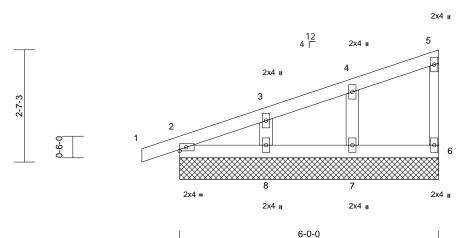
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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



Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	B1	GABLE	1	1	Job Reference (optional)	I45424710

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:39 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 6-0-0 0-10-8 6-0-0





Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

BRACING

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

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

bracing.

2=6-0-0, 6=6-0-0, 7=6-0-0, 8=6-0-0 REACTIONS (size)

Max Horiz 2=98 (LC 5)

2=-39 (LC 4), 6=-11 (LC 5), 7=-48 Max Uplift

(LC 4), 8=-48 (LC 8)

Max Grav 2=150 (LC 1), 6=67 (LC 1), 7=196

(LC 1), 8=179 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-78/27, 3-4=-55/23, 4-5=-48/16,

5-6=-52/20

BOT CHORD 2-8=-31/23, 7-8=-31/23, 6-7=-31/23

WEBS 3-8=-134/74, 4-7=-154/73

NOTES

- Wind: ASCE 7-16: Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- 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.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 6, 39 lb uplift at joint 2, 48 lb uplift at joint 8 and 48 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



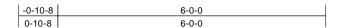
March 31,2021

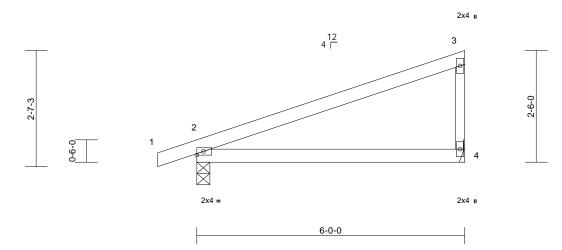


Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	B2	Monopitch	5	1	Job Reference (optional)	145424711

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.07	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	2-4	>526	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF 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 (size) 2=0-3-8, 4= Mechanical

Max Horiz 2=98 (LC 5)

Max Uplift 2=-88 (LC 4), 4=-55 (LC 8) Max Grav 2=337 (LC 1), 4=252 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-87/55, 3-4=-195/89

BOT CHORD 2-4=-31/23

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 4 and 88 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021

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

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

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

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

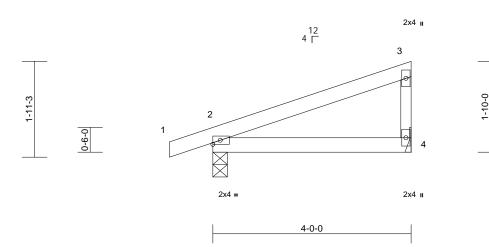


Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	B3	Monopitch	5	1	Job Reference (optional)	145424712

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:42 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 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) 2=0-3-8, 4= Mechanical

Max Horiz 2=69 (LC 5)

Max Uplift 2=-75 (LC 4), 4=-35 (LC 8) Max Grav 2=250 (LC 1), 4=159 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/6, 2-3=-69/35, 3-4=-122/57

BOT CHORD 2-4=-21/16

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 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 35 lb uplift at joint 4 and 75 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



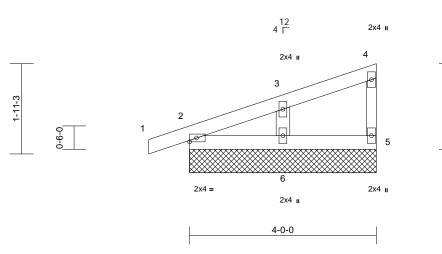


Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	B4	GABLE	1	1	Job Reference (optional)	I45424713

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0-10-8	4-0-0



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

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) 2=4-0-0, 5=4-0-0, 6=4-0-0

Max Horiz 2=69 (LC 5)

Max Uplift 2=-47 (LC 4), 5=-11 (LC 4), 6=-50 (LC 8)

Max Grav 2=147 (LC 1), 5=67 (LC 1), 6=198

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-54/28, 3-4=-41/12, 4-5=-53/20

TOP CHORD

BOT CHORD 2-6=-21/16, 5-6=-21/16

WEBS 3-6=-150/79

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- 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.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 5, 47 lb uplift at joint 2 and 50 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021



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

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

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

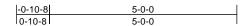
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

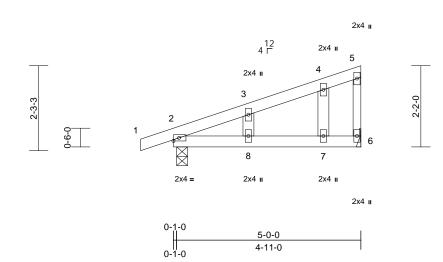


Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	B5	GABLE	1	1	Job Reference (optional)	I45424714

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.02	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	7-8	>999	240	Weight: 16 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

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

Max Horiz 2=84 (LC 5)

Max Uplift 2=-81 (LC 4), 6=-45 (LC 8)

Max Grav 2=293 (LC 1), 6=206 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/6, 2-3=-121/0, 3-4=-78/9, 4-5=-51/24, 5-6=-95/25

BOT CHORD

2-8=-21/55, 7-8=-21/55, 6-7=-21/55 **WEBS** 3-8=-46/49, 4-7=-44/34

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- 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.
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 6 and 81 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

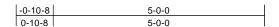


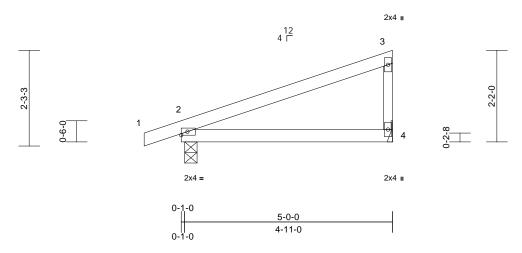


Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	B6	Monopitch	7	1	Job Reference (optional)	I45424715

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.03	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	2-4	>933	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

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

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

bracing.

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

Max Horiz 2=84 (LC 5)

Max Uplift 2=-81 (LC 4), 4=-45 (LC 8) Max Grav 2=293 (LC 1), 4=206 (LC 1)

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

Tension

TOP CHORD 1-2=0/6, 2-3=-74/45, 3-4=-159/73 2-4=-26/20

BOT CHORD NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 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 45 lb uplift at joint 4 and 81 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021



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

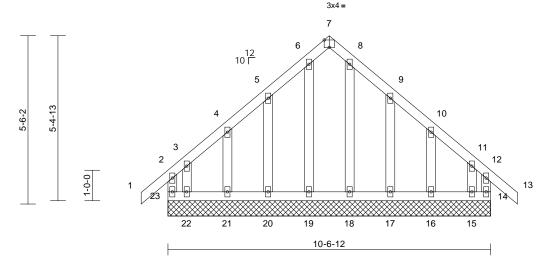
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	C1	GABLE	1	1	Job Reference (optional)	145424716

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:43 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-10-8 5-3-6 10-6-12 5-3-6 5-3-6 0-10-8 0-10-8



Scale = 1:37.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 56 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

BRACING

WEBS

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

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

bracing.

REACTIONS (size) 14=10-6-12, 15=10-6-12, 16=10-6-12, 17=10-6-12,

18=10-6-12, 19=10-6-12, 20=10-6-12, 21=10-6-12, 22=10-6-12, 23=10-6-12

Max Horiz 23=-164 (LC 6)

Max Uplift 14=-107 (LC 5), 15=-166 (LC 9), 16=-55 (LC 9), 17=-82 (LC 9),

20=-81 (LC 8), 21=-55 (LC 8), 22=-176 (LC 8), 23=-141 (LC 4)

14=200 (LC 15), 15=158 (LC 7), Max Grav 16=129 (LC 16), 17=131 (LC 16), 18=129 (LC 17), 19=133 (LC 18),

20=129 (LC 15), 21=129 (LC 15),

22=184 (LC 6), 23=228 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-23=-163/88, 1-2=0/46, 2-3=-130/110,

3-4=-75/78, 4-5=-60/75, 5-6=-47/119, 6-7=-33/84, 7-8=-28/79, 8-9=-32/111, 9-10=-46/68, 10-11=-58/64, 11-12=-109/85,

12-13=0/46. 12-14=-146/67

BOT CHORD 22-23=-80/90, 21-22=-80/90, 20-21=-80/90, 19-20=-80/90, 18-19=-80/90, 17-18=-80/90,

16-17=-80/90, 15-16=-80/90, 14-15=-80/90 3-22=-81/97, 4-21=-105/77, 5-20=-102/95,

6-19=-106/5, 8-18=-102/0, 9-17=-104/96, 10-16=-105/77, 11-15=-70/92

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- 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 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 23, 107 lb uplift at joint 14, 176 lb uplift at joint 22, 55 lb uplift at joint 21, 81 lb uplift at joint 20, 82 lb uplift at joint 17, 55 lb uplift at joint 16 and 166 lb uplift at joint 15.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

March 31,2021

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

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

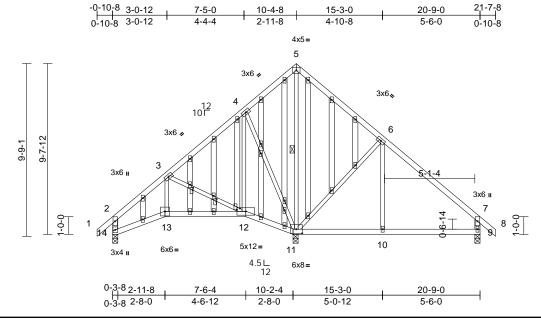
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	C2	GABLE	1	1	Job Reference (optional)	145424717

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:44 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.1

Plate Offsets (X, Y): [11:0-4-0,0-2-13], [12:0-0-15,0-2-0], [17:0-1-9,0-0-4], [20:0-1-9,0-0-4]

					-	-	-	-	-			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.02	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.22	Vert(CT)	-0.05	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	12-13	>999	240	Weight: 144 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 14-2,9-7:2x4 SPF

2400F 2 0F **OTHERS** 2x4 SPF No.2

BRACING

WEBS

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 5-11

REACTIONS (size) 9=0-3-8, 11=0-3-8, 14=0-3-8

14=-276 (LC 6) Max Horiz

Max Uplift 9=-143 (LC 9), 11=-120 (LC 8), 14=-109 (LC 9)

Max Grav 9=434 (LC 22), 11=1285 (LC 1),

14=365 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/46, 2-3=-370/112, 3-4=-98/230, TOP CHORD 4-5=-30/372, 5-6=-7/371, 6-7=-326/160,

7-8=0/46, 2-14=-387/122, 7-9=-386/180

BOT CHORD 13-14=-229/393, 12-13=-206/359, 11-12=-167/150, 10-11=-48/162,

9-10=-48/162

WEBS 3-13=-37/193, 3-12=-355/190, 4-12=-43/251,

4-11=-463/212, 5-11=-549/0, 6-11=-437/212,

6-10=0/238

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- 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 1-4-0 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.
- Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 14, 143 lb uplift at joint 9 and 120 lb uplift at joint
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021



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

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

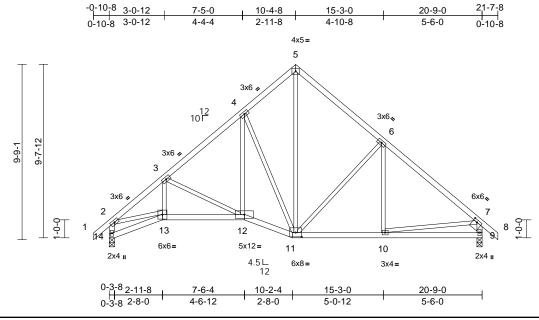
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	C3	Roof Special	3	1	Job Reference (optional)	145424718

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:45 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	тс	0.30	Vert(LL)	-0.04	` 12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	12	>999	240	Weight: 99 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 14-2,9-7:2x4 SPF

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 9=0-3-8 14=0-3-8

Max Horiz 14=-276 (LC 6)

Max Uplift 9=-114 (LC 9), 14=-114 (LC 8) Max Grav 9=992 (LC 1), 14=992 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/46, 2-3=-1444/214, 3-4=-1066/162, 4-5=-735/227, 5-6=-788/217, 6-7=-1064/140,

7-8=0/46, 2-14=-974/177, 7-9=-940/142

BOT CHORD 13-14=-261/316, 12-13=-235/1182,

11-12=-68/871, 10-11=-11/727, 9-10=-94/198 **WEBS**

3-13=-35/226, 3-12=-422/197, 4-12=-63/547, 4-11=-684/232, 5-11=-200/606,

6-11=-364/208, 6-10=0/175, 2-13=-98/1021,

7-10=0/534

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 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.
- Bearing at joint(s) 14 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 114 lb uplift at joint 14 and 114 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

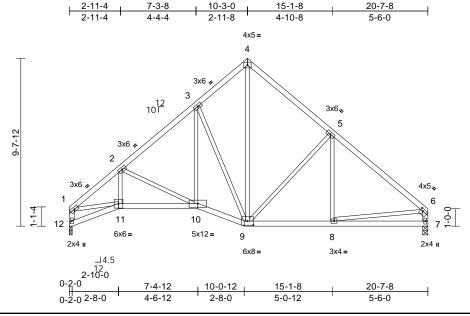




Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	C4	Roof Special	2	1	Job Reference (optional)	145424719

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:45 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.3

Plate Offsets (X, Y): [6:0-1-12,0-1-8], [9:0-4-0,0-2-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.04	10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.09	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	10	>999	240	Weight: 96 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 12-1,7-6:2x4 SPF WEBS

2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-9 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 7=0-3-8, 12=0-2-0

Max Horiz 12=-254 (LC 4)

Max Uplift 7=-90 (LC 9), 12=-89 (LC 8) Max Grav 7=915 (LC 1), 12=915 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-1401/211, 2-3=-1058/162,

3-4=-733/227, 4-5=-787/216, 5-6=-1060/136, 1-12=-900/149, 6-7=-862/118

BOT CHORD 11-12=-258/293. 10-11=-249/1142.

9-10=-84/849, 8-9=-25/731, 7-8=-69/164 WEBS

2-11=-40/194, 2-10=-400/196, 3-10=-67/528, 3-9=-668/236, 4-9=-200/607, 5-9=-374/212,

5-8=0/173, 1-11=-117/990, 6-8=-8/574

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 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.

- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 12 and 90 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

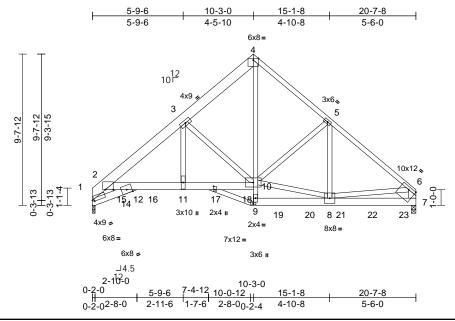




Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	C5	Roof Special Girder	1	3	Job Reference (optional)	145424720

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:46 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:73.5

Plate Offsets (X, Y): [1:0-1-4,0-1-2], [2:0-6-1,Edge], [6:Edge,0-2-0], [13:0-2-8,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.07	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.12	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	11-12	>999	240	Weight: 473 lb	FT = 10%

TOP CHORD 2x8 SP DSS *Except* 4-6:2x4 SPF No.2 2x6 SP 2400F 2.0E *Except* BOT CHORD

4-9.0-0.13-9:2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except* 7-6:2x6 SPF 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 10-0-0 oc bracing. Except:

10-0-0 oc bracing: 9-10

REACTIONS (size) 1=0-2-0, 7=0-3-8

> Max Horiz 1=249 (LC 5) Max Uplift 1=-188 (LC 8)

Max Grav 1=5682 (LC 15), 7=6218 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-7163/274, 2-3=-8058/175, 3-4=-5011/0, 4-5=-5075/7, 5-6=-6426/0, 6-7=-4739/0

BOT CHORD 1-14=-275/3589. 12-14=-304/3956.

2-15=0/2842, 12-15=0/2842

12-16=-179/6373, 11-16=-179/6373, 11-17=-182/6415, 17-18=-182/6415.

10-18=-182/6415, 9-10=0/895, 4-10=0/6068, 9-19=0/594, 19-20=0/594, 8-20=0/594 8-21=0/1282, 21-22=0/1282, 22-23=0/1282,

7-23=0/1282

WEBS 3-11=-272/3799, 3-10=-3485/483,

8-10=0/4382, 5-10=-1434/0, 5-8=0/1559,

6-8=0/3666

NOTES

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

Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 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 0-5-0 oc, 2x4 - 1 row at 0-7-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 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.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at ioint 1
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1033 lb down and 103 lb up at 2-0-0, 1033 lb down and 103 lb up at 4-0-0, 1033 lb down and 103 lb up at 6-0-0, 1033 lb down and 103 lb up at 8-0-0, 1033 lb down and 103 lb up at 10-0-0, 1062 lb down at 12-0-0, 1062 lb down at 14-0-0, 1062 lb down at 16-0-0, and 1062 lb down at 18-0-0, and 943 lb down at 20-0-0 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- 12) Filler applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-6=-70, 1-12=-20, 10-12=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 11=-910 (B), 14=-910 (B), 16=-910 (B), 17=-910 (B), 18=-910 (B), 19=-938 (B), 20=-938 (B), 21=-938 (B), 22=-938 (B), 23=-943 (B)



March 31,2021

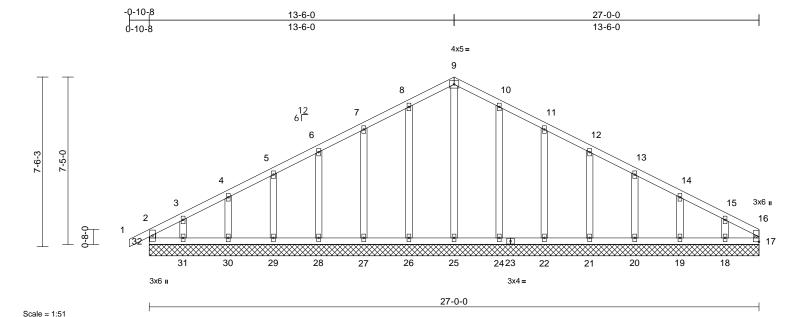




Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	D1	Common Supported Gable	1	1	Job Reference (optional)	I45424721

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:47 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 121 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 16-17:2x3 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

BRACING

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

bracing.

REACTIONS (size)

17=27-0-0, 18=27-0-0, 19=27-0-0, 20=27-0-0, 21=27-0-0, 22=27-0-0, 24=27-0-0, 25=27-0-0, 26=27-0-0, 27=27-0-0, 28=27-0-0, 29=27-0-0, 30=27-0-0, 31=27-0-0, 32=27-0-0

Max Horiz 32=121 (LC 12)

Max Uplift 18=-88 (LC 9), 19=-49 (LC 9), 20=-55 (LC 9), 21=-53 (LC 9), 22=-56 (LC 9), 24=-52 (LC 9), 26=-54 (LC 8), 27=-56 (LC 8), 28=-53 (LC 8), 29=-56 (LC 8), 30=-48 (LC 8), 31=-96 (LC 8), 32=-41 (LC 4)

17=76 (LC 18), 18=167 (LC 1), Max Grav 19=183 (LC 22), 20=179 (LC 1), 21=181 (LC 22), 22=178 (LC 1), 24=190 (LC 22), 25=190 (LC 18), 26=190 (LC 21), 27=178 (LC 1), 28=181 (LC 21), 29=178 (LC 21), 30=190 (LC 1), 31=131 (LC 15),

32=151 (LC 1)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum Tension

2-32=-134/41, 1-2=0/32, 2-3=-144/61, 3-4=-96/69, 4-5=-72/91, 5-6=-57/116, 6-7=-46/142, 7-8=-37/169, 8-9=-41/192,

9-10=-42/184, 10-11=-38/139, 11-12=-38/102, 12-13=-38/76, 13-14=-41/50, 14-15=-64/38, 15-16=-101/29, 16-17=-56/1

BOT CHORD

31-32=-23/87, 30-31=-23/87, 29-30=-23/87, 28-29=-23/87, 27-28=-23/87, 26-27=-23/87, 25-26=-23/87, 24-25=-23/87, 23-24=-23/87, 22-23=-23/87, 21-22=-23/87, 20-21=-23/87, 19-20=-23/87, 18-19=-23/87, 17-18=-23/87 9-25=-150/0, 8-26=-150/78, 7-27=-138/79, 6-28=-141/78, 5-29=-138/79, 4-30=-147/76, 3-31=-101/94, 10-24=-150/76, 11-22=-138/80, 12-21=-140/77, 13-20=-139/78, 14-19=-143/77, 15-18=-130/90

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph: TCDL=6.0psf; BCDL=6.0psf; 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.
- 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.
- * 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 41 lb uplift at joint 32, 54 lb uplift at joint 26, 56 lb uplift at joint 27, 53 lb uplift at joint 28, 56 lb uplift at joint 29, 48 lb uplift at joint 30, 96 lb uplift at joint 31, 52 lb uplift at joint 24, 56 lb uplift at joint 22, 53 lb uplift at joint 21, 55 lb uplift at joint 20, 49 lb uplift at joint 19 and 88 lb uplift at joint 18.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	D2	Roof Special	5	1	Job Reference (optional)	145424722

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:48 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

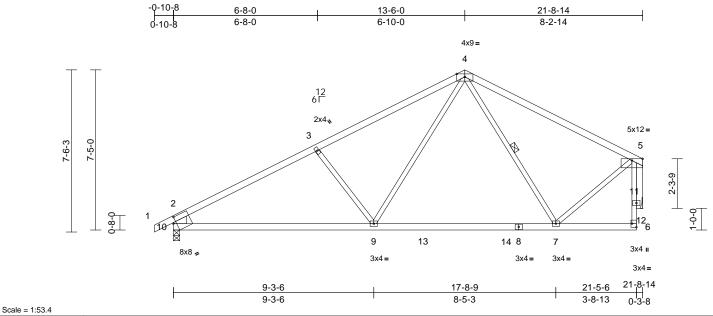


Plate Offsets (X, Y): [6:Edge,0-2-8], [10:0-1-10,0-3-4]

		1	-						-			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.21	7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.33	7-9	>772	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	7-9	>999	240	Weight: 80 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 10-2:2x8 SP DSS WEBS

OTHERS 2x4 SPF No.2

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt

REACTIONS (size) 10=0-3-8, 12= Mechanical

Max Horiz 10=175 (LC 8)

Max Uplift 10=-154 (LC 8), 12=-91 (LC 9)

Max Grav 10=1080 (LC 2), 12=992 (LC 2) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD

1-2=0/37, 2-3=-1503/220, 3-4=-1291/213, 4-5=-824/116, 6-12=0/35, 5-12=0/35,

2-10=-948/202

BOT CHORD 9-10=-282/1255, 9-13=-80/737,

13-14=-80/737, 8-14=-80/737, 7-8=-80/737,

6-7=-64/177

WEBS 5-7=-17/648, 4-9=-101/693, 3-9=-403/253,

4-7=-256/109, 5-12=-1010/98

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 10 and 91 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

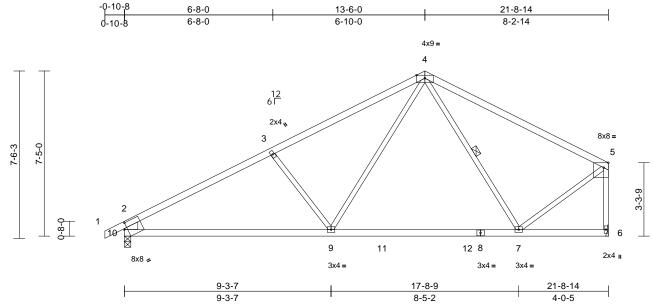




Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	D3	Common	4	1	Job Reference (optional)	145424723

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:48 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.20	7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.33	7-9	>786	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	7-9	>999	240	Weight: 78 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 4-5:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 10-2:2x8 SP DSS

BRACING

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

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

bracing.

WEBS 1 Row at midpt

REACTIONS (size) 6= Mechanical, 10=0-3-8

Max Horiz 10=153 (LC 5) Max Uplift 10=-31 (LC 8)

Max Grav 6=1020 (LC 2), 10=1078 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/37, 2-3=-1499/66, 3-4=-1287/76,

4-5=-807/49, 5-6=-999/7, 2-10=-946/80 **BOT CHORD**

9-10=-71/1291, 9-11=0/754, 11-12=0/754,

8-12=0/754, 7-8=0/754, 6-7=-31/53

WEBS 4-7=-290/58, 5-7=0/767, 4-9=-12/691, 3-9=-402/155

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

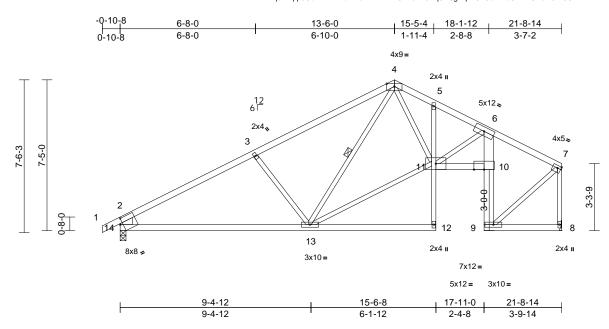






Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	D4	Roof Special	1	1	Job Reference (optional)	145424724

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:49 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:56.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.17	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.36	13-14	>717	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.38	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	10-11	>999	240	Weight: 97 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 4-7:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 12-5:2x3 SPF No.2,

6-9:2x6 SP DSS

WEBS 2x3 SPF No.2 *Except* 14-2:2x8 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing, Except:

6-0-0 oc bracing: 9-10.

WEBS 1 Row at midpt 4-13

REACTIONS (size) 8= Mechanical, 14=0-3-8

Max Horiz 14=153 (LC 5)

Max Uplift 14=-31 (LC 8)

Max Grav 8=958 (LC 1), 14=1045 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/37. 2-3=-1454/70. 3-4=-1183/77.

4-5=-1463/50, 5-6=-1551/21, 6-7=-721/39,

7-8=-961/18, 2-14=-942/82

BOT CHORD 13-14=-73/1196, 12-13=0/11, 11-12=0/83,

5-11=-100/87, 10-11=-7/1552, 9-10=-410/18,

6-10=-422/36, 8-9=-31/29

WEBS 3-13=-402/156, 4-13=-80/131, 11-13=0/1068,

4-11=-15/832, 6-11=-266/53, 7-9=0/735

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 6) bearing plate capable of withstanding 31 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

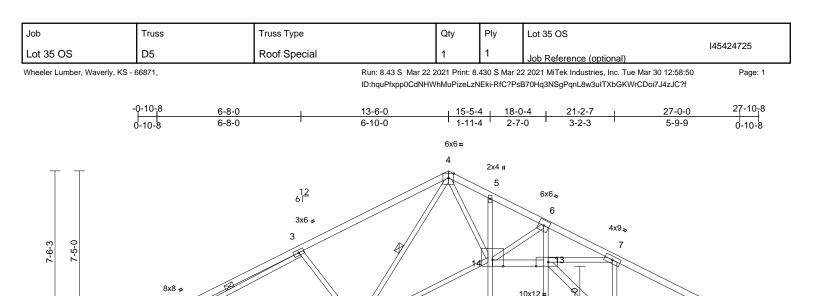
LOAD CASE(S) Standard



March 31,2021

Page: 1





4x9= 6x8= 5x12= 15-6-8 17-11-0 21-2-7 27-0-0 9-4-11 9-4-11 6-1-13 2-4-8 3-3-7 5-9-9 Scale = 1:53.4

16

Plate Offsets (X, Y): [2:0-3-5,0-5-12], [10:0-3-0,0-2-4], [13:0-6-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.26	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.46	13-14	>690	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.31	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	13-14	>999	240	Weight: 118 lb	FT = 10%

12

2x4 II

2x4 II

11

6x8

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 15-5,6-12:2x3 SPF

No.2. 14-13:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 17-2,10-8:2x6 SPF

No.2. 11-13:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-5-2 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 4-16, 3-17

REACTIONS (size) 10=0-5-8, 17=0-3-8 Max Horiz 17=111 (LC 8)

Max Uplift 10=-174 (LC 9), 17=-174 (LC 8) Max Grav 10=1272 (LC 1), 17=1272 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-836/189, 3-4=-1679/256,

4-5=-2714/267, 5-6=-2771/259,

6-7=-4570/325, 7-8=-1931/232, 8-9=0/35,

2-17=-625/185, 8-10=-1208/205 16-17=-260/1629. 15-16=0/18. 14-15=0/80.

5-14=-140/75, 13-14=-164/4035, 12-13=0/44

6-13=-98/1768, 11-12=-2/30, 10-11=-138/574

3-16=-401/254, 4-16=-362/0, 14-16=-80/1732, 4-14=-113/2031,

6-14=-1935/194, 7-13=-96/2387, 7-11=-1602/182, 3-17=-1117/110,

8-11=-21/1068, 11-13=-170/2262

NOTES

WEBS

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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

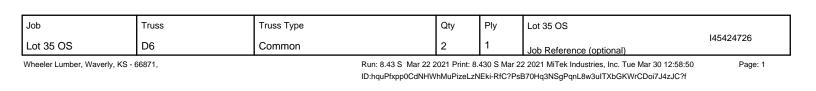
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 10 and 174 lb uplift at joint 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard









20-4-0

27-0-0

13-6-0

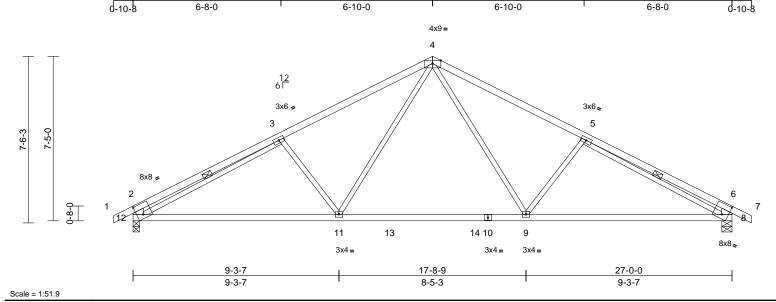


Plate Offsets (X, Y): [2:0-3-5,0-5-12], [8:0-3-5,0-5-12]

6-8-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.20	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.34	11-12	>926	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	9-11	>999	240	Weight: 100 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 12-2,8-6:2x6 SPF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 3-12, 5-8 REACTIONS (size) 8=0-5-8, 12=0-3-8

Max Horiz 12=111 (LC 8)

Max Uplift 8=-174 (LC 9), 12=-174 (LC 8)

Max Grav 8=1320 (LC 2), 12=1320 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/35, 2-3=-874/191, 3-4=-1808/260,

4-5=-1808/260, 5-6=-874/190, 6-7=0/35, 2-12=-630/186, 6-8=-630/186

11-12=-259/1707, 11-13=-51/1190,

13-14=-51/1190, 10-14=-51/1190, 9-10=-51/1190, 8-9=-149/1705

WEBS 4-9=-111/695, 5-9=-403/255, 4-11=-111/695,

3-11=-403/255, 3-12=-1150/97, 5-8=-1149/97

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 12 and 174 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

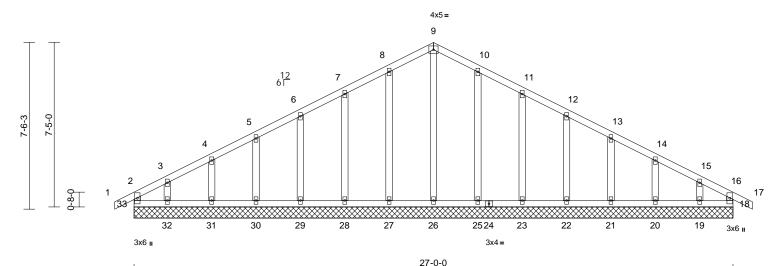
LOAD CASE(S) Standard







Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	D7	Common Supported Gable	1	1	Job Reference (optional)	145424727
/heeler Lumber, Wave	erly, KS - 66871,				22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:51	Page: 1
	-0-10-8		JanhvinmuPizeLz	NEKI-RIC?P	sB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	27-10 . 8
		13-6-0			27-0-0	
	0-10-8	13-6-0			13-6-0	(



												-	
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	18	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 122 lb	FT = 10%	

TOP OURDE	0.4005	
TOP CHORD	2x4 SPF I	
BOT CHORD	2x4 SPF I	No.2
WEBS	2x4 SPF I	No.2
OTHERS	2x4 SPF I	No.2
BRACING		
TOP CHORD	Structural	I wood sheathing directly applied or
	0-0-0 oc	ourlins, except end verticals.
BOT CHORD		•
	bracing.	3
REACTIONS	(size)	18=27-0-0, 19=27-0-0, 20=27-0-0,
	, ,	21=27-0-0, 22=27-0-0, 23=27-0-0,
		25=27-0-0, 26=27-0-0, 27=27-0-0,
		28=27-0-0, 29=27-0-0, 30=27-0-0,
		31=27-0-0, 32=27-0-0, 33=27-0-0
	Max Horiz	33=112 (LC 8)
	Max Uplift	18=-15 (LC 5), 19=-81 (LC 9),
	•	20=-50 (LC 9), 21=-55 (LC 9),
		22=-53 (LC 9), 23=-56 (LC 9),
		25=-53 (LC 9), 27=-54 (LC 8),
		28=-56 (LC 8), 29=-53 (LC 8),
		30=-56 (LC 8), 31=-48 (LC 8),
		32=-96 (LC 8), 33=-40 (LC 4)
	Max Grav	18=146 (LC 22), 19=131 (LC 1),
BRACING TOP CHORD BOT CHORD	Structural 6-0-0 oc p Rigid ceill bracing. (size) Max Horiz Max Uplift	I wood sheathing directly applied or purlins, except end verticals. ing directly applied or 6-0-0 oc 18=27-0-0, 19=27-0-0, 20=27-0-0, 21=27-0-0, 22=27-0-0, 23=27-0-0, 25=27-0-0, 26=27-0-0, 26=27-0-0, 30=27-0-0, 31=27-0-0, 32=27-0-0, 33=112 (LC 8) 18=-15 (LC 5), 19=-81 (LC 9), 20=-50 (LC 9), 21=-55 (LC 9), 22=-53 (LC 9), 23=-56 (LC 8), 25=-56 (LC 8), 29=-53 (LC 8), 30=-56 (LC 8), 31=-48 (LC 8), 32=-96 (LC 8), 33=-40 (LC 4)

Scale = 1:51.9

LUMBER

FORCES

33=146 (LC 21) (lb) - Maximum Compression/Maximum Tension

20=189 (LC 22), 21=178 (LC 1),

22=181 (LC 22), 23=178 (LC 1),

25=190 (LC 22), 26=194 (LC 18),

27=190 (LC 21), 28=178 (LC 1),

29=181 (LC 21), 30=178 (LC 1),

31=189 (LC 21), 32=133 (LC 15),

2-33=-129/41, 1-2=0/32, 2-3=-141/63, 3-4=-92/73, 4-5=-64/89, 5-6=-50/115, 6-7=-39/140, 7-8=-30/167, 8-9=-35/191, 9-10=-35/183, 10-11=-30/138, 11-12=-31/104, 12-13=-31/78, 13-14=-37/54, 14-15=-59/46, 15-16=-101/29, 16-17=0/32, 16-18=-129/20 **BOT CHORD** 32-33=-24/105, 31-32=-24/105, 30-31=-24/105, 29-30=-24/105, 28-29=-24/105, 27-28=-24/105, 26-27=-24/105, 25-26=-24/105, 24-25=-24/105, 23-24=-24/105, 22-23=-24/105, 21-22=-24/105, 20-21=-24/105, 19-20=-24/105, 18-19=-24/105

WEBS 9-26=-154/0, 8-27=-150/78, 7-28=-138/79, 6-29=-141/78, 5-30=-138/78, 4-31=-147/76, 3-32=-101/94, 10-25=-150/77, 11-23=-138/80, 12-22=-141/78, 13-21=-138/78, 14-20=-147/77, 15-19=-101/86

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- 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.

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 33, 15 lb uplift at joint 18, 54 lb uplift at joint 27, 56 lb uplift at joint 28, 53 lb uplift at joint 29, 56 lb uplift at joint 30, 48 lb uplift at joint 31, 96 lb uplift at joint 32, 53 lb uplift at joint 25, 56 lb uplift at joint 23, 53 lb uplift at joint 22, 55 lb uplift at joint 21, 50 lb uplift at joint 20 and 81 lb uplift at joint 19.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021

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

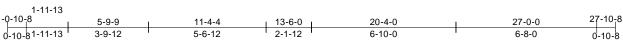
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	D8	Roof Special	4	1	Job Reference (optional)	145424728

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:51 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



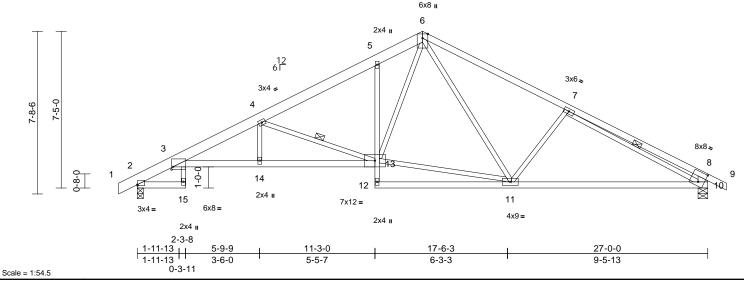


Plate Offsets (X, Y): [2:0-0-4,0-0-7], [3:0-0-13,0-1-8], [8:0-3-5,0-5-12]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.18	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.39	10-11	>817	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.25	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	15	>999	240	Weight: 125 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP DSS *Except* 6-9:2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 3-13:2x4 SPF 2100F

1.8E. 5-12:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 10-8:2x6 SPF No.2

BRACING

WEBS

Structural wood sheathing directly applied or TOP CHORD 3-3-10 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 2-15. 1 Row at midpt 4-13, 7-10

REACTIONS (size) 2=0-3-8, 10=0-5-8

Max Horiz 2=122 (LC 8)

Max Uplift 2=-166 (LC 8), 10=-173 (LC 9)

Max Grav 2=1281 (LC 1), 10=1276 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/12, 2-3=-698/152, 3-4=-2838/362,

4-5=-1867/235, 5-6=-1753/311,

6-7=-1690/256, 7-8=-847/194, 8-9=0/35,

8-10=-632/188

BOT CHORD 2-15=-33/0, 3-14=-379/2648.

13-14=-378/2648, 12-13=0/90,

5-13=-214/142, 11-12=-8/63, 10-11=-147/1634

3-15=0/68, 4-14=0/243, 4-13=-1161/276,

11-13=-45/1207, 6-13=-205/906, 6-11=-116/397, 7-11=-388/249,

7-10=-1113/106

NOTES

WFBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 2 and 173 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

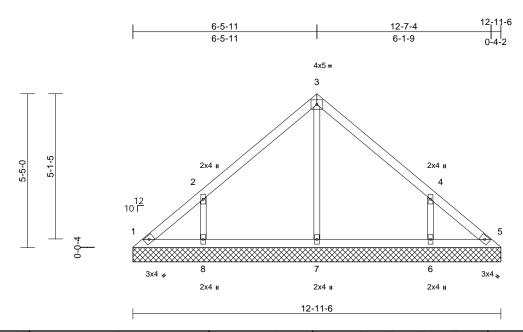


Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	V1	Valley	1	1	Job Reference (optional)	145424729

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:51 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:40.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 39 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=12-11-6, 5=12-11-6, 6=12-11-6, 7=12-11-6, 8=12-11-6

Max Horiz 1=-133 (LC 4)

Max Uplift 1=-34 (LC 4), 5=-11 (LC 5), 6=-178

(LC 9), 8=-178 (LC 8)

1=119 (LC 16), 5=102 (LC 15), Max Grav

6=360 (LC 16), 7=257 (LC 1),

8=360 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-141/103, 2-3=-171/112, 3-4=-167/88, 4-5=-123/67

BOT CHORD 1-8=-39/95, 7-8=-39/95, 6-7=-39/95,

5-6=-39/95 3-7=-172/2, 2-8=-293/219, 4-6=-293/219

WEBS

- NOTES Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 11 lb uplift at joint 5, 178 lb uplift at joint 8 and 178 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



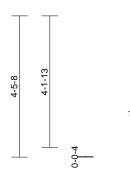
Page: 1

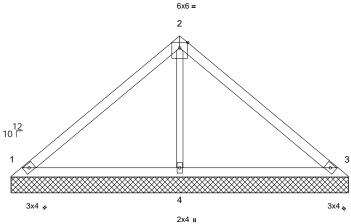


Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	V2	Valley	1	1	Job Reference (optional)	145424730

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:52 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







10-7-13

Scale = 1:36.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 30 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **OTHERS** 2x3 SPF No.2

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.

1=10-7-13, 3=10-7-13, 4=10-7-13 REACTIONS (size) Max Horiz 1=-108 (LC 4)

1=-42 (LC 8), 3=-54 (LC 9), 4=-9 Max Uplift

(LC 8)

Max Grav 1=248 (LC 1), 3=248 (LC 1), 4=394

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-205/95, 2-3=-204/76

BOT CHORD 1-4=-24/95, 3-4=-24/95

WEBS 2-4=-242/60

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 54 lb uplift at joint 3 and 9 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

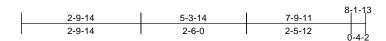


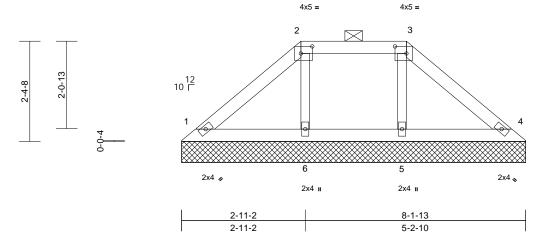
Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 35 OS	
Lot 35 OS	V3	Valley	1	1	Job Reference (optional)	145424731

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Scale = 1:27.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS **OTHERS** 2x3 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except

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

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

REACTIONS (size) 1=8-1-13, 4=8-1-13, 5=8-1-13,

6=8-1-13

Max Horiz 1=-54 (LC 4)

Max Uplift 1=-24 (LC 9), 4=-32 (LC 9), 5=-14

(LC 4), 6=-27 (LC 5)

Max Grav 1=136 (LC 1), 4=136 (LC 1), 5=201

(LC 22), 6=201 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-90/45, 2-3=-28/51, 3-4=-90/30 **BOT CHORD** 1-6=-19/46, 5-6=-18/40, 4-5=-16/44

WEBS 3-5=-148/46, 2-6=-148/59

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 32 lb uplift at joint 4, 14 lb uplift at joint 5 and 27 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 31,2021

Page: 1

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

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

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



Ply Job Truss Truss Type Qty Lot 35 OS 145424732 Lot 35 OS V4 Valley Job Reference (optional)

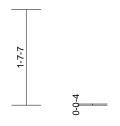
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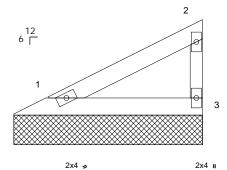
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Page: 1



2x4 II





3-2-6

Scale = 1:19.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 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 10-0-0 oc

bracing.

REACTIONS (size) 1=3-2-6, 3=3-2-6

Max Horiz 1=52 (LC 5)

Max Uplift 1=-14 (LC 8), 3=-28 (LC 8) Max Grav 1=113 (LC 1), 3=113 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-48/31, 2-3=-88/43

BOT CHORD 1-3=-18/14

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 28 lb uplift at joint 3.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





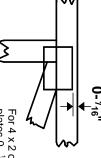


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

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

PLATE SIZE



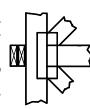
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

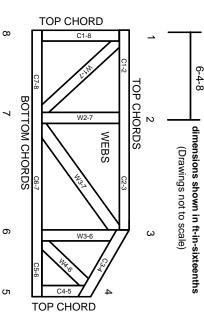
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.