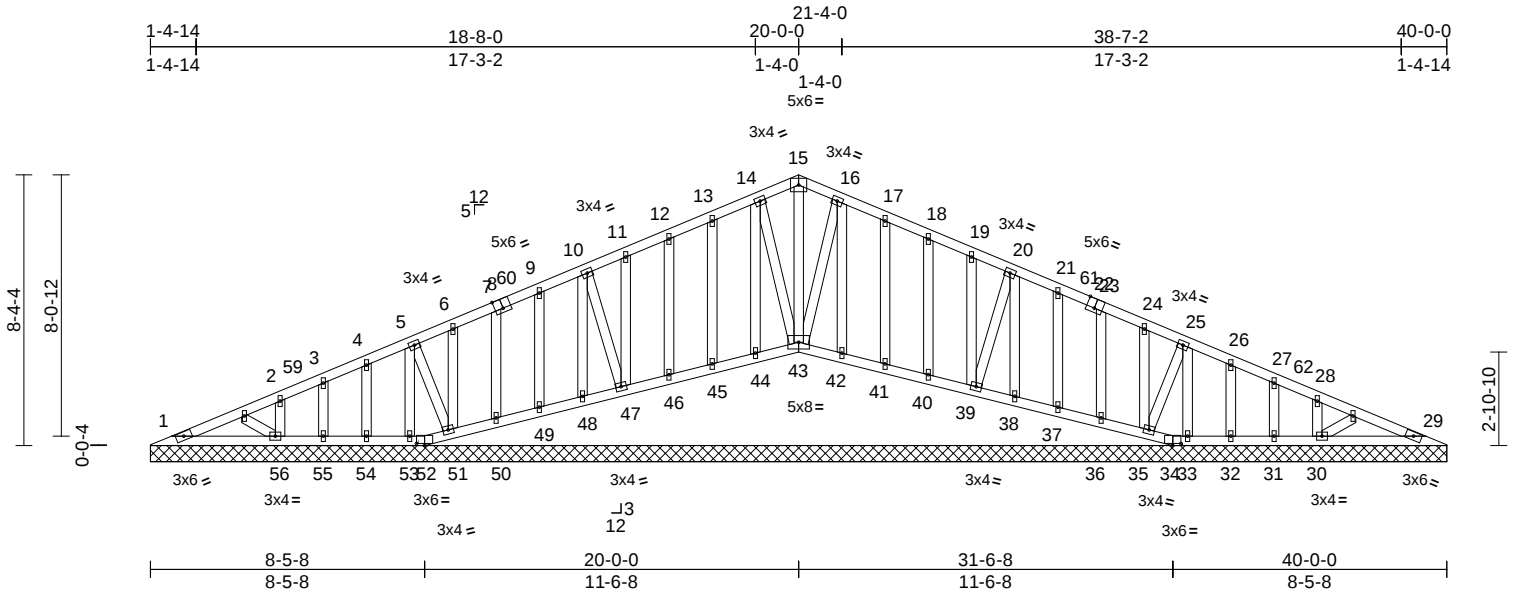


Job	Truss	Truss Type	Qty	Ply	
21-079912T	A1	Roof Special Supported Gable	1	1	R67747680
Job Reference (optional)					

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Wed Aug 25 09:12:53
ID:tHEcDjoy4nB3xbYrf3plE?yAv1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?r

Page: 1



Scale = 1:71.1

Plate Offsets (X, Y): [7:0-3-0,Edge], [23:0-3-0,Edge], [34:0-3-0,0-0-12], [52:0-3-0,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	63.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20
(Roof Snow = 63.0)		Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999	220/195
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.01	29	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-S							
BCDL	10.0										
Weight: 259 lb FT = 12%											

LUMBER

TOP CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
WEBS	2x4 DF Stud
OTHERS	2x4 DF Stud

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

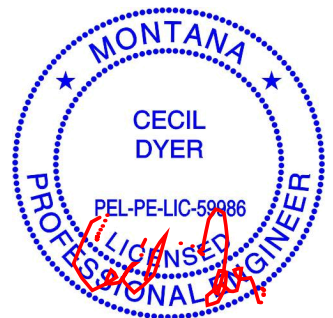
(lb/size)	1=228/40-0-0, 29=228/40-0-0, 30=573/40-0-0, 31=57/40-0-0, 32=257/40-0-0, 33=208/40-0-0, 34=6/40-0-0, 35=219/40-0-0, 36=222/40-0-0, 37=221/40-0-0, 38=221/40-0-0, 39=221/40-0-0, 40=225/40-0-0, 41=208/40-0-0, 42=141/40-0-0, 43=399/40-0-0, 44=141/40-0-0, 45=208/40-0-0, 46=225/40-0-0, 47=221/40-0-0, 48=221/40-0-0, 49=221/40-0-0, 50=222/40-0-0, 51=219/40-0-0, 52=6/40-0-0, 53=208/40-0-0, 54=257/40-0-0, 55=57/40-0-0, 56=573/40-0-0
Max Horiz	1=132 (LC 11)

FORCES

Max Uplift	1=-18 (LC 12), 30=-91 (LC 12), 31=-11 (LC 12), 32=-39 (LC 12), 33=-38 (LC 12), 34=-22 (LC 12), 35=-37 (LC 12), 36=-35 (LC 12), 37=-36 (LC 12), 38=-36 (LC 12), 39=-35 (LC 12), 40=-37 (LC 12), 41=-35 (LC 12), 45=-34 (LC 11), 46=-37 (LC 11), 47=-35 (LC 11), 48=-36 (LC 11), 49=-36 (LC 11), 50=-35 (LC 11), 51=-37 (LC 11), 52=-24 (LC 12), 53=-38 (LC 11), 54=-39 (LC 11), 55=-11 (LC 11), 56=-91 (LC 11)
Max Grav	1=233 (LC 17), 29=233 (LC 18), 30=573 (LC 18), 31=57 (LC 1), 32=257 (LC 1), 33=208 (LC 18), 34=8 (LC 17), 35=219 (LC 1), 36=235 (LC 18), 37=303 (LC 18), 38=313 (LC 18), 39=310 (LC 18), 40=316 (LC 18), 41=295 (LC 18), 42=199 (LC 18), 43=399 (LC 1), 44=199 (LC 17), 45=295 (LC 17), 46=316 (LC 17), 47=310 (LC 17), 48=313 (LC 17), 49=303 (LC 17), 50=235 (LC 17), 51=219 (LC 1), 52=8 (LC 18), 53=208 (LC 17), 54=257 (LC 1), 55=57 (LC 1), 56=573 (LC 17)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-168/116, 2-3=-135/69, 3-4=-87/82, 4-5=-86/88, 5-6=-73/101, 6-7=-61/114, 7-9=-66/127, 9-10=-78/140, 10-11=-79/164, 11-12=-79/189, 12-13=-81/215, 13-14=-89/241, 14-15=-92/251, 15-16=-92/251, 16-17=-89/241, 17-18=-81/215, 18-19=-79/189, 19-20=-79/164, 20-21=-78/139, 21-23=-66/113, 23-24=-61/88, 24-25=-62/63, 25-26=-63/38, 26-27=-46/35, 27-28=-102/6, 28-29=-121/94
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August 25, 2021

Continued on page 2

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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



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

Job	Truss	Truss Type	Qty	Ply	
21-079912T	A1	Roof Special Supported Gable	1	1	R67747680 Job Reference (optional)

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Wed Aug 25 09:12:53
ID:tHEcDjoy4nB3xbYrf3plE?yWAv1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 2

BOT CHORD 1-56=-38/114, 55-56=-38/114, 54-55=-38/114,
53-54=-38/114, 52-53=-38/114,
51-52=-39/119, 50-51=-40/120,
49-50=-40/120, 48-49=-40/120,
47-48=-40/120, 46-47=-40/120,
45-46=-40/120, 44-45=-40/120,
43-44=-40/119, 42-43=-40/119,
41-42=-40/120, 40-41=-40/120,
39-40=-40/120, 38-39=-40/120,
37-38=-40/120, 36-37=-40/120,
35-36=-40/120, 34-35=-39/119,
33-34=-38/114, 32-33=-38/114,
31-32=-38/114, 30-31=-38/114,
29-30=-38/114

WEBS 15-43=-192/35, 14-44=-171/5,
13-45=-269/57, 12-46=-289/56,
11-47=-284/55, 10-48=-287/55,
9-49=-276/55, 7-50=-208/55, 6-51=-195/55,
5-53=-191/54, 4-54=-219/64, 3-55=-70/19,
2-56=-474/198, 16-42=-171/11,
17-41=-269/57, 18-40=-289/56,
19-39=-284/55, 20-38=-287/55,
21-37=-276/55, 23-36=-208/55,
24-35=-195/55, 25-33=-191/54,
26-32=-219/64, 27-31=-70/19,
28-30=-474/198, 14-43=-140/46,
16-43=-140/49

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=4.0psf; BCDL=5.0psf; h=20ft;
Ke=0.90; Cat. II; Exp C; Enclosed; MWFRS (envelope)
exterior zone and C-C Corner(3E) 0-8-2 to 4-8-2,
Exterior(2N) 4-8-2 to 16-0-0, Corner(3R) 16-0-0 to
24-0-0, Exterior(2N) 24-0-0 to 35-3-14, Corner(3E)
35-3-14 to 39-3-14 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.33 plate grip DOL=1.33
- 2) 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.
- 3) TCLL: ASCE 7-16; Pf=63.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load
applied where required.
- 4) Unbalanced snow loads have been considered for this
design.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) * 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.
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 18 lb uplift at joint
1, 24 lb uplift at joint 52, 22 lb uplift at joint 34, 34 lb
uplift at joint 45, 37 lb uplift at joint 46, 35 lb uplift at joint
47, 36 lb uplift at joint 48, 36 lb uplift at joint 49, 35 lb
uplift at joint 50, 37 lb uplift at joint 51, 38 lb uplift at joint
53, 39 lb uplift at joint 54, 11 lb uplift at joint 55, 91 lb
uplift at joint 56, 35 lb uplift at joint 41, 37 lb uplift at joint
40, 35 lb uplift at joint 39, 36 lb uplift at joint 38, 36 lb
uplift at joint 37, 35 lb uplift at joint 36, 37 lb uplift at joint
35, 38 lb uplift at joint 33, 39 lb uplift at joint 32, 11 lb
uplift at joint 31 and 91 lb uplift at joint 30.
- 10) Beveled plate or shim required to provide full bearing
surface with truss chord at joint(s) 44, 45, 46, 47, 48, 49,
50, 51, 42, 41, 40, 39, 38, 37, 36, 35, 43.
- 11) This truss is designed in accordance with the 2018
International Building Code section 2306.1 and
referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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

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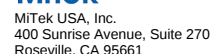


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component
dorf, MD 20601

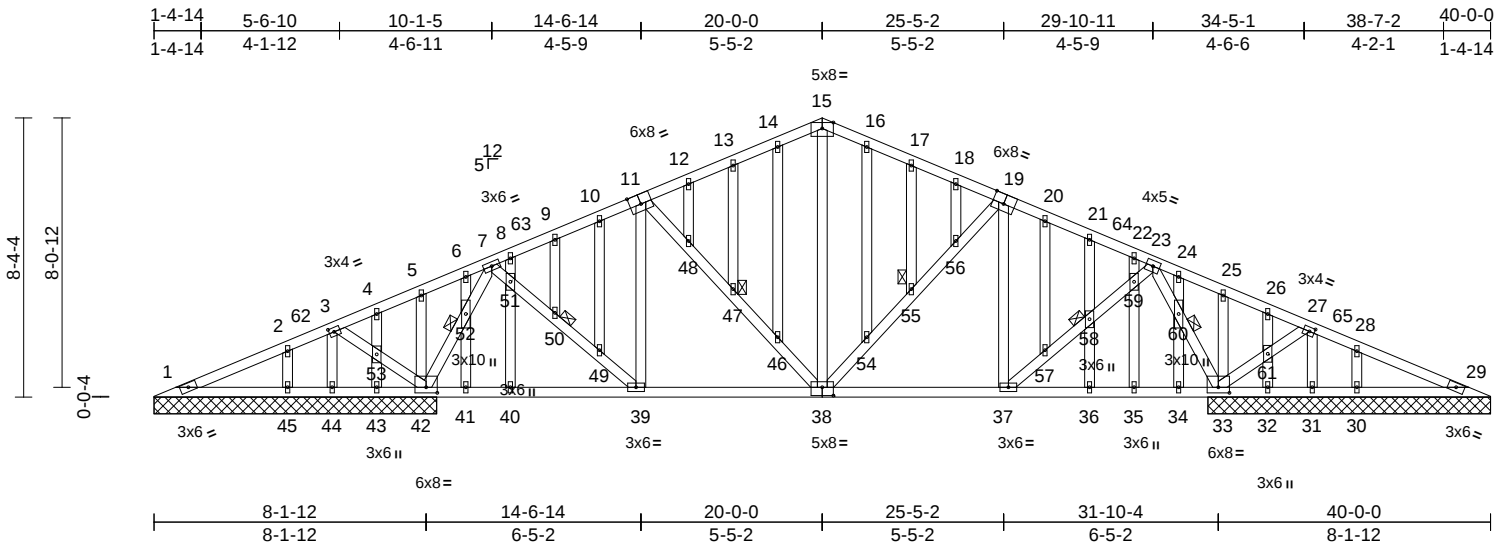


Job	Truss	Truss Type	Qty	Ply	
21-079912T	A4	Common Structural Gable	1	1	R67747682
Job Reference (optional)					

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Wed Aug 25 09:12:56

Page: 1

ID: TcFTZOCjmQpccQQ8SQyXSywAtD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?



Scale = 1:69

Plate Offsets (X, Y): [3:0-1-12,0-1-8], [11:0-4-0,Edge], [19:0-4-0,Edge], [27:0-1-12,0-1-8], [33:0-4-0,0-2-0], [38:0-4-0,0-3-0], [42:0-4-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	63.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.06	38-39	>999	240	220/195
(Roof Snow = 63.0)		Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.09	38-39	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03	33	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-S							
BCDL	10.0										
Weight: 283 lb FT = 12%											

LUMBER

TOP CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
WEBS	2x4 DF Stud *Except* 38-15,11-38,19-38:2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
OTHERS	2x4 DF Stud

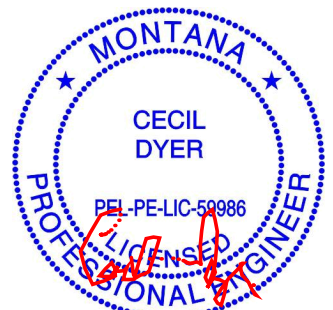
BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-4-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-42, 23-33
JOINTS	1 Brace at Jt(s): 47, 50, 55, 58

REACTIONS	(lb/size)	1=150/8-5-8, 29=150/8-5-8, 30=555/8-5-8, 31=223/8-5-8, 32=54/8-5-8, 33=2779/8-5-8, 42=2777/8-5-8, 43=54/8-5-8, 44=220/8-5-8, 45=555/8-5-8
Max Horiz	1=132 (LC 11)	
Max Uplift	1=-26 (LC 12), 29=-17 (LC 12), 30=-89 (LC 12), 31=-234 (LC 17), 32=-119 (LC 17), 33=-253 (LC 12), 42=-279 (LC 11), 43=-119 (LC 18), 44=-231 (LC 18), 45=-89 (LC 11)	
Max Grav	1=157 (LC 17), 29=157 (LC 18), 30=556 (LC 18), 31=42 (LC 12), 32=11 (LC 11), 33=2875 (LC 18), 42=2874 (LC 17), 43=8 (LC 12), 44=40 (LC 12), 45=556 (LC 17)	

FORCES	(lb) - Maximum Compression/Maximum Tension
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TOP CHORD	1-2=-105/301, 2-3=-51/212, 3-4=-93/584, 4-5=-73/628, 5-6=-42/546, 6-7=-42/654, 7-8=-1744/205, 8-9=-1741/220, 9-10=-1698/232, 10-12=-1564/254, 12-13=-1449/255, 13-14=-1429/274, 14-15=-1339/274, 15-16=-1339/273, 16-17=-1428/274, 17-18=-1449/255, 18-20=-1572/254, 20-21=-1702/233, 21-22=-1719/217, 22-23=-1747/205, 23-24=0/645, 24-25=-1/550, 25-26=-18/628, 26-27=-33/585, 27-28=0/202, 28-29=-32/300
BOT CHORD	1-45=-182/95, 44-45=-182/95, 43-44=-191/97, 42-43=-191/97, 41-42=-55/653, 40-41=-55/653, 39-40=-55/653, 37-39=-98/1533, 36-37=0/654, 35-36=0/654, 34-35=0/654, 33-34=0/654, 32-33=-193/50, 31-32=-193/50, 30-31=-181/48, 29-30=-181/48



August 25, 2021

Continued on page 2

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

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

Job	Truss	Truss Type	Qty	Ply	
21-079912T	A4	Common Structural Gable	1	1	R67747682
					Job Reference (optional)

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Page: 2

WEBS 11-39=-654/111, 19-37=-630/107,
15-38=-47/328, 3-53=-388/67,
42-53=-426/73, 42-52=-2278/186,
7-52=-2529/206, 7-51=-100/1296,
50-51=-98/1213, 49-50=-85/1111,
39-49=-95/1170, 11-48=-431/269,
47-48=-400/275, 46-47=-543/225,
38-46=-536/295, 38-54=-537/295,
54-55=-544/225, 55-56=-402/275,
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57-58=-86/1118, 58-59=-94/1191,
23-59=-104/1320, 23-60=-2537/204,
33-60=-2281/184, 33-61=-427/74,
27-61=-389/67, 14-46=-15/96,
13-47=-195/38, 12-48=-6/41, 10-49=-15/92,
9-50=-160/28, 8-51=-80/29, 40-51=0/67,
6-52=-11/207, 41-52=-94/19, 5-42=-413/71,
4-53=-99/41, 43-53=-42/56, 3-44=-45/256,
2-45=-463/115, 16-54=-14/95,
17-55=-193/38, 18-56=-5/35, 20-57=-13/83,
21-58=-209/42, 36-58=-95/26, 22-59=-55/21,
35-59=0/153, 24-60=0/165, 34-60=-132/27,
25-33=-403/66, 26-61=-99/43, 32-61=-41/56,
27-31=-46/259, 28-30=-464/115

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=4.0psf; BCDL=5.0psf; h=20ft;
Ke=0.90; Cat. II; Exp C; Enclosed; MWFRS (envelope)
exterior zone and C-C Exterior(2E) 0-8-2 to 4-8-2,
Interior (1) 4-8-2 to 16-0-0, Exterior(2R) 16-0-0 to
24-0-0, Interior (1) 24-0-0 to 35-3-14, Exterior(2E)
35-3-14 to 39-3-14 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.33 plate grip DOL=1.33
- 2) 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.
- 3) TCLL: ASCE 7-16; Pf=63.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load
applied where required.
- 4) Unbalanced snow loads have been considered for this
design.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.
- 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.
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 26 lb uplift at joint
1, 279 lb uplift at joint 42, 253 lb uplift at joint 33, 119 lb
uplift at joint 43, 231 lb uplift at joint 44, 89 lb uplift at
joint 45, 119 lb uplift at joint 32, 234 lb uplift at joint 31,
89 lb uplift at joint 30 and 17 lb uplift at joint 29.
- 9) This truss is designed in accordance with the 2018
International Building Code section 2306.1 and
referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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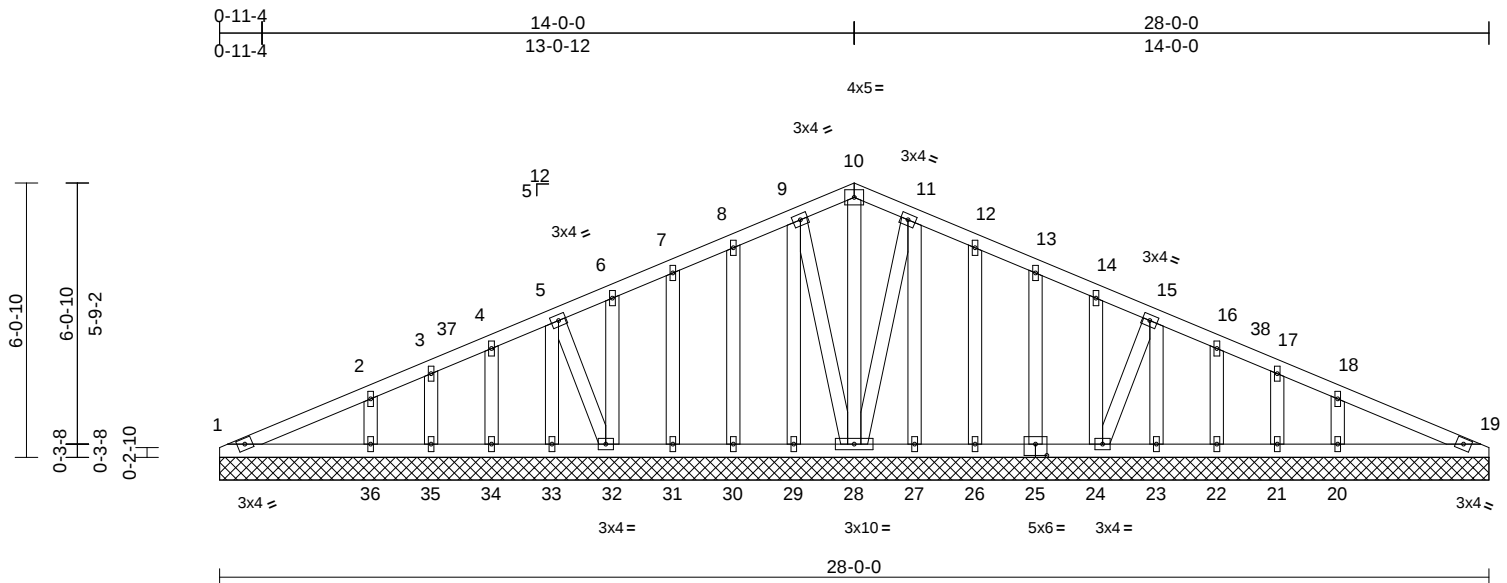
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
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Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Wed Aug 25 09:12:57
ID:uSS1mERG2ZKmfVy_ddFekgywAsv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:50.8

Plate Offsets (X, Y): [25:0-3-0,0-3-0]

[illegible]

LUMBER

TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or

2x4 DF-N 1800F 1.6E

BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or

2x4 DF-N 1800F 1.6E

OTHERS 2x4 DF Stud

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 (lb/size) 1=217/28-0-0, 19=217/28-0-0,
20=534/28-0-0, 21=81/28-0-0,
22=251/28-0-0, 23=216/28-0-0,
24=222/28-0-0, 25=221/28-0-0,
26=221/28-0-0, 27=229/28-0-0,
28=195/28-0-0, 29=229/28-0-0,
30=221/28-0-0, 31=221/28-0-0,
32=222/28-0-0, 33=216/28-0-0,
34=251/28-0-0, 35=81/28-0-0,
36=534/28-0-0

Max Horiz 1=95 (LC 11)

Max Uplift 1=15 (LC 12), 19=-1 (LC 12),
20=85 (LC 12), 21=-14 (LC 12),
22=39 (LC 12), 23=35 (LC 12),
24=36 (LC 12), 25=35 (LC 12),
26=40 (LC 12), 27=27 (LC 12),
29=30 (LC 11), 30=38 (LC 11),
31=35 (LC 11), 32=36 (LC 11),
33=35 (LC 11), 34=39 (LC 11),
35=14 (LC 11), 36=85 (LC 11)

FORCES

Tension

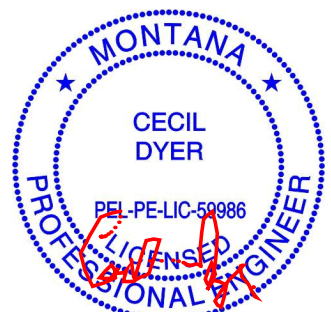
TOP CHORD 1-2=-141/98, 2-3=-109/58, 3-4=-65/68,
4-5=-70/81, 5-6=-69/93, 6-7=-69/107,
7-8=-69/132, 8-9=-70/159, 9-10=-75/180,
10-11=-75/180, 11-12=-70/159,
12-13=-69/132, 13-14=-69/107,
14-15=-69/82, 15-16=-70/57, 16-17=-41/45,
17-18=-87/21, 18-19=-109/84

BOT CHORD 1-36=28/86, 35-36=28/86, 34-35=28/86,
33-34=28/86, 32-33=28/86, 31-32=28/86,
30-31=28/86, 29-30=28/86, 28-29=28/86,
27-28=28/86, 26-27=28/86, 24-26=28/86,
23-24=28/86, 22-23=28/86, 21-22=28/86,
20-21=28/86, 19-20=28/86

WEBS 10-28--168/15, 9-29--298/43, 8-30--286/60,
7-31--284/55, 6-32--284/55, 5-33--283/54,
4-34--298/64, 3-35--99/23, 2-36--443/174,
11-27--298/43, 12-26--286/60,
13-25--284/55, 14-24--284/55,
15-23--283/54, 16-22--298/64,
17-21--99/23, 18-20--443/174

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust)
Vasd=95mph; TCCL=4.0psf; BCDL=5.0psf; h=20ft;
Ke=0.90; Cat. II; Exp C; Enclosed; MWFRS (envelope)
exterior zone and C-C Corner(3E) 0-2-8 to 3-4-0,
Exterior(2N) 3-4-0 to 11-0-0, Corner(3R) 11-0-0 to
17-0-0, Exterior(2N) 17-0-0 to 24-8-0, Corner(3E) 24-8-0
to 27-9-8 zone; cantilever left and right exposed ; end
vertical left and right exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.33 plate grip DOL=1.33
- 2) 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.
- 3) TCCL: ASCE 7-16; Pf=63.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load
applied where required.
- 4) Unbalanced snow loads have been considered for this
design.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.



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Continued on page 2

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

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



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

Job	Truss	Truss Type	Qty	Ply	
21-079912T	B1	Common	1	1	R67747683 Job Reference (optional)

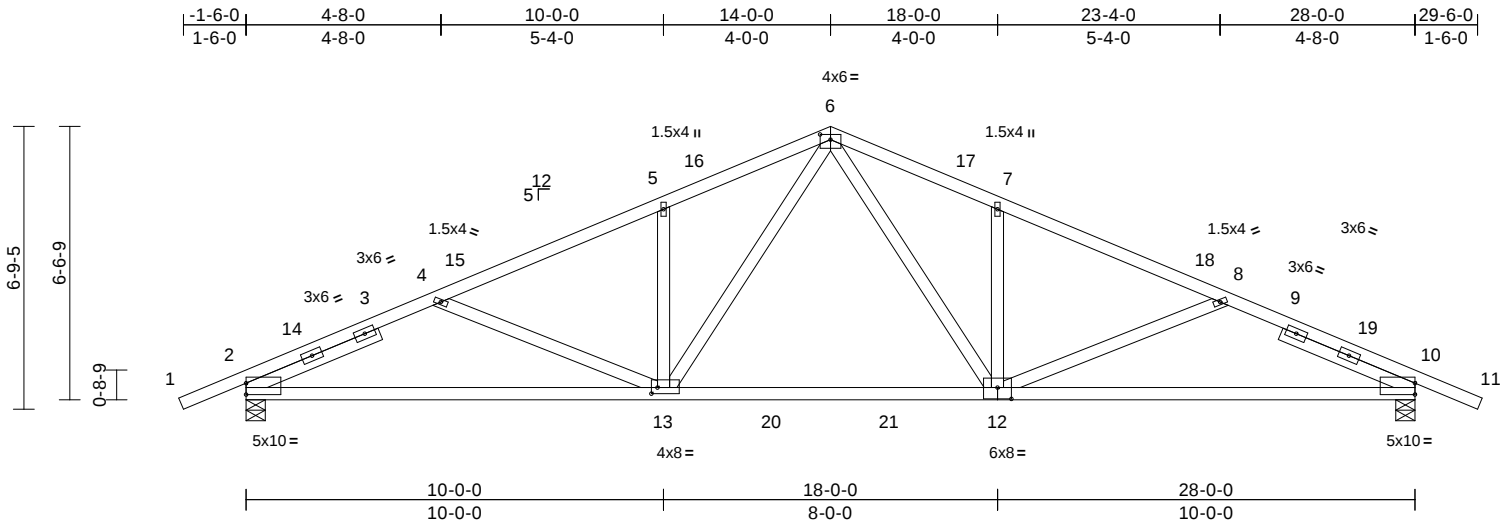
- 7) Gable studs spaced at 1-4-0 oc.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 1 lb uplift at joint 19, 30 lb uplift at joint 29, 38 lb uplift at joint 30, 35 lb uplift at joint 31, 36 lb uplift at joint 32, 35 lb uplift at joint 33, 39 lb uplift at joint 34, 14 lb uplift at joint 35, 85 lb uplift at joint 36, 27 lb uplift at joint 27, 40 lb uplift at joint 26, 35 lb uplift at joint 25, 36 lb uplift at joint 24, 35 lb uplift at joint 23, 39 lb uplift at joint 22, 14 lb uplift at joint 21 and 85 lb uplift at joint 20.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	
21-079912T	B2	Common	12	1	R67747684
Job Reference (optional)					

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Wed Aug 25 09:12:57
ID:1189OFU8LUI6zhZJpLMiywAss-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.2

Plate Offsets (X, Y): [2:Edge,0-3-4], [6:0-3-0,0-1-8], [10:Edge,0-3-4], [12:0-4-0,0-3-4], [13:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	63.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.28	12-13	>999	240	220/195
(Roof Snow = 63.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.53	2-13	>637	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.14	10	n/a	n/a	
BCLL	0.0*	Code	IBC2018/TPI2014	Matrix-S							
BCDL	10.0										
Weight: 140 lb FT = 12%											

LUMBER

TOP CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
WEBS	2x4 DF Stud *Except* 12-6,13-6:2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
SLIDER	Left 2x4 DF Stud -- 3-5-9, Right 2x4 DF Stud -- 3-5-9

BRACING

TOP CHORD	Structural wood sheathing directly applied or 1-10-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size)	2=2551/0-5-8, 10=2551/0-5-8
Max Horiz	2=-107 (LC 12)
Max Uplift	2=-251 (LC 11), 10=-251 (LC 12)
Max Grav	2=2631 (LC 18), 10=2631 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/64, 2-4=-4586/447, 4-5=-3847/384, 5-6=-3867/462, 6-7=-3867/462, 7-8=-3846/384, 8-10=-4586/447, 10-11=0/64
BOT CHORD	2-13=-426/3967, 10-13=-329/3967
WEBS	6-12=-210/1901, 6-13=-210/1901, 4-13=-637/187, 5-13=-1179/199, 7-12=-1179/199, 8-12=-637/187

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.0psf; BCDL=5.0psf; h=20ft; Ke=0.90; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-11 to 1-5-5, Interior (1) 1-5-5 to 11-0-0, Exterior(2R) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-6-11, Exterior(2E) 26-6-11 to 29-6-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=63.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 63.0 psf on overhangs non-concurrent with 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 2 and 251 lb uplift at joint 10.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 25, 2021

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