

RE: Lot 1 OS Lot 1 OS MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: Lot 1 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 27 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2	Seal# I47787250 I47787251	Truss Name A1 A2	Date 9/7/2021 9/7/2021	No. 21 22	Seal# 47787270 47787271	Truss Name B1 LAY1	Date 9/7/2021 9/7/2021
3	147787251	A2 A3	9/7/2021	23	147787271	LAY2	9/7/2021
4	147787252	A4	9/7/2021	24	147787272	V1	9/7/2021
5	147787254	A5	9/7/2021	25	147787274	V2	9/7/2021
6	147787255	A6	9/7/2021	26	147787275	V3	9/7/2021
7	147787256	A7	9/7/2021	27	147787276	V4	9/7/2021
8	147787257	A8	9/7/2021				
9	147787258	A9	9/7/2021				
10	147787259	A10	9/7/2021				
11	147787260	A11	9/7/2021				
12	147787261	A12	9/7/2021				
13	147787262	A13	9/7/2021				
14	147787263	A14	9/7/2021				
15	147787264	A15	9/7/2021				
16	147787265	A16	9/7/2021				
17	147787266	A17	9/7/2021				
18	147787267	A18	9/7/2021				

9/7/2021

9/7/2021

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

A19

A20

MiTek USA, Inc under my direct supervision

147787268

147787269

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

19

20

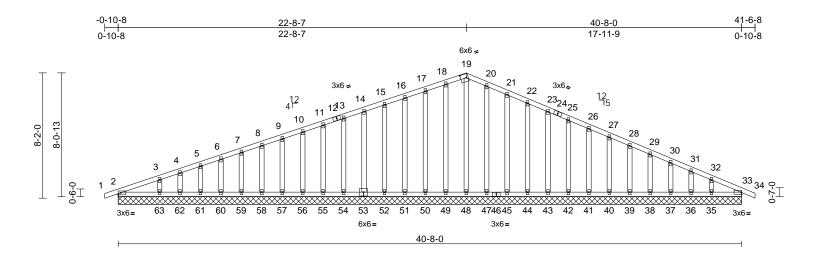
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 1 OS	
Lot 1 OS	A1	Roof Special Supported Gable	4	1	Job Reference (optional)	147787250

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:48 ID:q6SPGwyY2XfiPIHfSAmENyz6Qwt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:75.1

Plate Offsets	(X,	Y):	[19:0-4-7,0-3-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	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	0.12	Horz(CT)	0.01	33	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 228 lb	FT = 10%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
OTHERS	2x4 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.

REACTIONS (lb/size)

2=176/40-8-0, 33=154/40-8-0, 35=155/40-8-0, 36=108/40-8-0, 37=123/40-8-0, 38=119/40-8-0, 39=120/40-8-0. 40=120/40-8-0. 41=120/40-8-0. 42=120/40-8-0. 43=120/40-8-0, 44=120/40-8-0 45=120/40-8-0, 47=123/40-8-0, 48=109/40-8-0, 49=123/40-8-0, 50=120/40-8-0, 51=120/40-8-0 52=121/40-8-0, 53=120/40-8-0 54=119/40-8-0, 55=120/40-8-0, 56=120/40-8-0, 57=120/40-8-0, 58=120/40-8-0, 59=120/40-8-0, 60=118/40-8-0, 61=130/40-8-0, 62=76/40-8-0, 63=226/40-8-0

Max Horiz 2=139 (LC 8)

Max Uplift 2=-19 (LC 9), 33=-9 (LC 5), 35=-57 (LC 9), 36=-28 (LC 9), 37=-32 (LC 9), 38=-32 (LC 9), 39=-32 (LC 9), 40=-32 (LC 9), 41=-32 (LC 9), 42=-32 (LC 9), 43=-32 (LC 9), 44=-32 (LC 9), 45=-38 (LC 9), 47=-18 (LC 9), 49=-19 (LC 8), 50=-33 (LC 4), 51=-28 (LC 4), 52=-28 (LC 8), 53=-28 (LC 4), 54=-29 (LC 8), 55=-28 (LC 4), 56=-28 (LC 4), 57=-28 (LC 8), 58=-28 (LC 4), 59=-28 (LC 8), 60=-28 (LC 4), 61=-30 (LC 8), 62=-22 (LC 4), 63=-65 (LC 8) Max Grav 2=176 (LC 1), 33=154 (LC 1)

35=156 (LC 22), 36=108 (LC 22), 37=123 (LC 1), 38=119 (LC 22), 39=120 (LC 1), 40=120 (LC 1), 41=120 (LC 1), 42=120 (LC 22), 43=120 (LC 1), 44=120 (LC 1), 45=121 (LC 22), 47=124 (LC 22), 48=140 (LC 18), 49=124 (LC 21), 50=121 (LC 21), 51=120 (LC 1), 52=121 (LC 1), 53=120 (LC 1), 54=119 (LC 21), 55=120 (LC 1) 56=120 (LC 21), 57=120 (LC 21), 58=120 (LC 1), 59=120 (LC 1),

60=118 (LC 21), 61=130 (LC 1),

62=76 (LC 21), 63=226 (LC 21) **FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/6, 2-3=-166/72, 3-4=-122/71, 4-5=-107/78, 5-6=-89/83, 6-7=-75/92, 7-8=-61/103, 8-9=-48/114, 9-10=-38/124, 10-11=-28/135, 11-13=-20/146, 13-14=-20/157, 14-15=-21/168, 15-16=-21/179, 16-17=-21/190, 17-18=-21/202, 18-19=-22/208, 19-20=-25/208, 20-21=-24/188, 21-22=-24/162, 22-23=-24/137, 23-25=-24/113, 25-26=-24/90, 26-27=-24/74, 27-28=-24/58, 28-29=-24/43, 29-30=-31/29, 30-31=-44/23, 31-32=-64/16, 32-33=-109/28, 33-34=0/6



September 7,2021



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A1	Roof Special Supported Gable	4	1	Job Reference (optional)	147787250

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:48 ID:q6SPGwyY2XfiPIHfSAmENyz6Qwt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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2-63=-10/117. 62-63=-10/117. 61-62=-10/117. BOT CHORD 60-61=-10/117, 59-60=-10/117, 58-59=-10/117, 57-58=-10/117, 56-57=-10/117, 55-56=-10/117, 54-55=-10/117, 52-54=-10/117, 51-52=-10/117, 50-51=-10/117, 49-50=-10/117, 48-49=-10/117, 47-48=-10/117, 45-47=-10/117, 44-45=-10/117, 43-44=-10/117, 42-43=-10/117, 41-42=-10/117, 40-41=-10/117, 39-40=-10/117, 38-39=-10/117, 37-38=-10/117, 36-37=-10/117, 35-36=-10/117, 33-35=-10/117 **WEBS** 19-48=-114/0, 18-49=-97/35, 17-50=-94/49, 16-51=-93/44, 15-52=-93/45, 14-53=-94/44, 13-54=-93/45, 11-55=-93/44, 10-56=-93/44, 9-57=-93/44, 8-58=-93/44, 7-59=-93/45, 6-60=-92/44, 5-61=-99/47, 4-62=-64/32, 3-63=-167/91, 20-47=-97/34, 21-45=-94/54, 22-44=-93/48, 23-43=-93/48, 25-42=-93/48, 26-41=-93/48, 27-40=-93/48, 28-39=-93/48, 29-38=-93/48, 30-37=-95/49, 31-36=-86/43, 32-35=-118/77

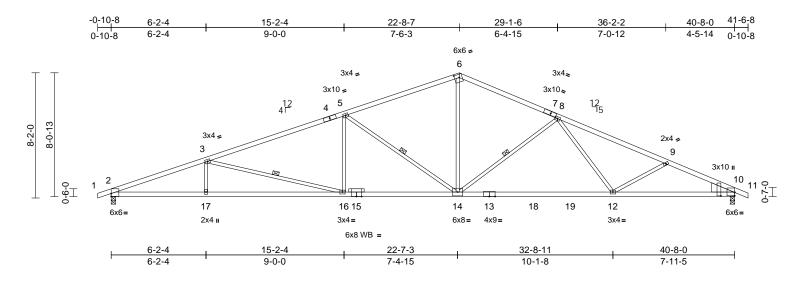
NOTES

- 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 study exposed to wind (normal to the face) see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 2, 9 lb uplift at joint 33, 19 lb uplift at joint 49, 33 lb uplift at joint 50, 28 lb uplift at joint 51, 28 lb uplift at joint 52, 28 lb uplift at joint 53, 29 lb uplift at joint 54, 28 lb uplift at joint 55, 28 lb uplift at joint 56, 28 lb uplift at joint 57, 28 lb uplift at joint 58, 28 lb uplift at joint 59, 28 lb uplift at joint 60, 30 lb uplift at joint 61, 22 lb uplift at joint 62, 65 lb uplift at joint 63, 18 lb uplift at joint 47, 38 lb uplift at joint 45, 32 lb uplift at joint 44, 32 lb uplift at joint 43, 32 lb uplift at joint 42, 32 lb uplift at joint 41, 32 lb uplift at joint 40, 32 lb uplift at joint 39, 32 lb uplift at joint 38, 32 lb uplift at joint 37, 28 lb uplift at joint 36 and 57 lb uplift at joint 35.
- 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.

Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A2	Roof Special	8	1	Job Reference (optional)	147787251

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:50 ID:0EdaZh4RSv19D?dnb_SpJGz6Qwi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:75.1

Plate Offsets (X, Y): [2:Edge,0-2-5], [6:0-3-12,0-2-8], [7:0-4-7,0-1-8], [10:Edge,0-2-10], [10:0-2-11,0-10-13]

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	0.97	Vert(LL)	-0.46	12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.82	12-14	>590	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.19	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.24	16-17	>999	240	Weight: 144 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 6-7,7-11:2x4

SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E 2x3 SPF No.2 WEBS **OTHERS** 2x3 SPF No.2 WEDGE Right: 2x8 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 9-4-14 oc

bracing.

WEBS 1 Row at midpt 3-16, 5-14, 8-14

REACTIONS (lb/size) 2=1888/0-3-8, 10=1888/0-3-8

Max Horiz 2=139 (LC 8)

Max Uplift 2=-318 (LC 4), 10=-239 (LC 9) Max Grav 2=1937 (LC 2), 10=1951 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-4773/679, 3-5=-3747/541,

5-6=-2694/392, 6-8=-2745/412,

8-9=-3708/382, 9-10=-3857/475, 10-11=0/6

BOT CHORD 2-17=-690/4436, 16-17=-690/4436, 14-16=-450/3481, 12-14=-269/3059,

10-12=-377/3430

WEBS 3-17=0/331, 3-16=-1014/255, 5-16=0/527,

5-14=-1243/320, 6-14=-142/1510,

8-14=-798/278, 8-12=0/536, 9-12=-244/215

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
- 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 318 lb uplift at joint 2 and 239 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



September 7,2021



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

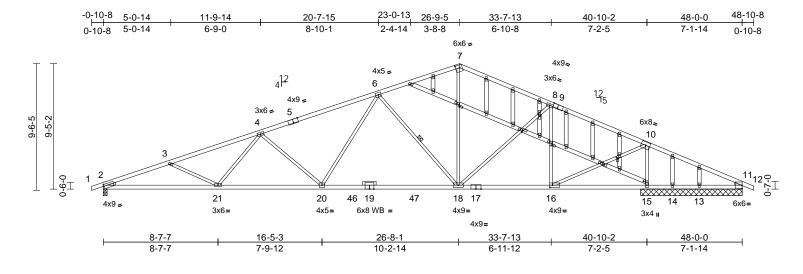
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A3	Roof Special Structural Gable	4	1	Job Reference (optional)	147787252

Run: 8.43 E Aug 16 2021 Print: 8.430 E Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 11:29:47 ID:Bura03dgskim7vZQkxmNelz6Qw?-3GFS3i18eYr98B907?_EYLhUsrNoShCsE4?Bgdyg1g4

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[2:0-0-12,0-1-11], [5:0-4-8,Edge], [7:0-3-12,0-2-8], [9:0-4-4,Edge], [16:0-2-8,0-2-0], [23:0-1-4,0-1-0], [24:0-0-2,0-1-12], [25:0-1-4,0-1-0], [26:0-1-8,0-1-0], Plate Offsets (X, Y): [27:0-2-0,0-0-7], [36:0-1-6,0-1-0], [43:0-1-4,0-1-0]

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	0.98	Vert(LL)	-0.51	18-20	>967	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.86	18-20	>565	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.12	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.22	20-21	>999	240	Weight: 217 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 5-7:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Except* **WEBS**

22-23,23-24,24-25,25-26,26-27:2x4 SPF

No.2

OTHERS 2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2 Right: 2x3 SPF No.2

BRACING

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

bracing.

WEBS 1 Row at midpt REACTIONS All bearings 7-7-8. except 2=0-3-8

Max Horiz 2=163 (LC 8)

Max Uplift All uplift 100 (lb) or less at joint(s)

13 except 2=-324 (LC 4), 11=-348 (LC 23), 14=-147 (LC 2), 15=-311

(LC 4)

Max Grav All reactions 250 (lb) or less at joint

(s) 11, 13, 14 except 2=1880 (LC

2), 15=2889 (LC 2)

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

(lb) or less except when shown. TOP CHORD 2-3=-4417/738, 3-4=-4209/624,

4-5=-3315/500, 5-6=-3235/525, 6-7=-1893/341, 7-8=-1949/351, 8-9=-1396/225, 9-10=-1555/223,

10-11=-196/1234

BOT CHORD 2-21=-776/4095, 20-21=-597/3670,

20-46=-326/2524, 19-46=-326/2524 19-47=-326/2524, 18-47=-326/2524, 17-18=-55/1359, 16-17=-55/1359, 15-16=-1037/206, 14-15=-1037/206 13-14=-1037/206, 11-13=-1037/206

WFBS 3-21=-289/206, 4-21=0/453, 4-20=-870/296,

> 6-20=-101/1067, 6-18=-1236/353, 7-18=-121/976, 8-18=-77/598 8-16=-921/199. 10-16=-287/2632. 10-15=-2565/383

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 studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=324, 15=310, 11=347. 14=147.
- 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



September 7,2021



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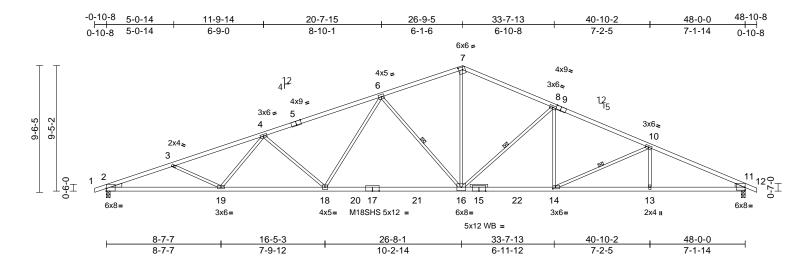
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A4	Roof Special	4	1	Job Reference (optional)	147787253

Run: 8.43 S. Aug 16 2021 Print: 8.430 S. Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:51 ID:ecYqRXa94vnWE0U4qPcprVz6Qqv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:86.6

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-4-8,Edge], [7:0-3-12,0-2-8], [9:0-4-4,Edge], [11:Edge,0-2-10], [14:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
	vi /	-			0.05		0.00	. ,			-	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)		16-18	>840		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-1.17	16-18	>489	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.26	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.30	18	>999	240	Weight: 173 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt 6-16, 8-16, 10-14

REACTIONS (lb/size) 2=2218/0-3-8, (req. 0-3-10), 11=2218/0-3-8, (req. 0-3-10)

Max Horiz 2=163 (LC 8)

Max Uplift 2=-368 (LC 4), 11=-278 (LC 9)

Max Grav 2=2318 (LC 2), 11=2324 (LC 2)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-5618/858, 3-4=-5477/754,

4-6=-4640/660, 6-7=-3241/478, 7-8=-3324/490, 8-10=-4088/477,

10-11=-4797/510, 11-12=0/6 BOT CHORD 2-19=-878/5214, 18-19=-723/4908,

16-18=-453/3790, 14-16=-294/3701,

13-14=-381/4282, 11-13=-381/4282

6-16=-1218/351, 7-16=-217/1929,

8-16=-974/284, 8-14=-8/521, 10-14=-677/205, 10-13=0/315,

3-19=-223/194, 4-19=0/410, 4-18=-858/296,

6-18=-102/1051

NOTES

WEBS

 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
- 3) All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.
- WARNING: Required bearing size at joint(s) 2, 11 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 2 and 278 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



September 7,2021



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

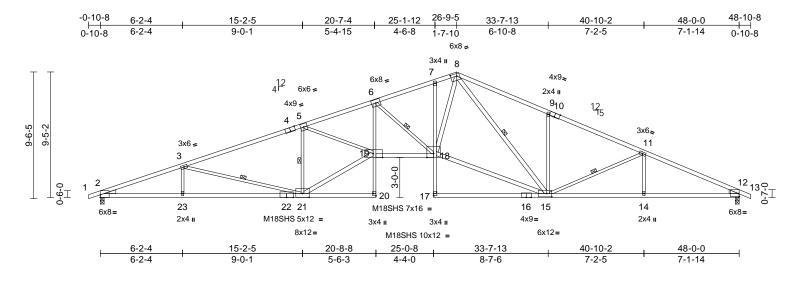
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A5	Roof Special	4	1	Job Reference (optional)	147787254

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:52 ID:m6qk9_kJ0uQgl?_a5eLttFz6Qqi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.6

Plate Offsets (X, Y): [2:Edge,0-2-5], [4:0-4-8,Edge], [8:0-5-8,0-2-4], [10:0-4-8,Edge], [12:Edge,0-2-10], [15:0-4-8,0-3-0], [19:0-8-8,Edge], [20:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.67	20	>849	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-1.21	18-19	>472	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.53	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.48	20	>999	240	Weight: 202 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-4:2x4 SPF

2400F 2.0E

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 20-6,7-17:2x3

SPF No.2, 17-16:2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 21-19:2x4 SPF 2100F 1.8E, 15-18,18-8,15-8:2x4 SPF No.2

WEDGE Left: 2x4 SP No.3

Right: 2x4 SPF No.2

BRACING

WEBS

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

Rigid ceiling directly applied or 8-6-0 oc bracing.

1 Row at midp 3-21, 5-21, 6-18, 8-15,

11-15

REACTIONS (lb/size) 2=2218/0-3-8, 12=2218/0-3-8

Max Horiz 2=163 (LC 12)

Max Uplift 2=-368 (LC 4), 12=-278 (LC 9) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/6, 2-3=-5568/825, 3-5=-4624/683,

5-6=-6933/973, 6-7=-4877/677,

7-8=-4807/714 8-9=-3856/558

9-11=-3864/470, 11-12=-4542/514, 12-13=0/6

BOT CHORD 2-23=-846/5161, 21-23=-846/5161,

20-21=-5/26, 19-20=0/66, 6-19=-276/2088, 18-19=-779/6516, 17-18=0/143,

7-18=-212/106, 15-17=0/33,

14-15=-385/4036, 12-14=-385/4036

3-23=0/322, 3-21=-947/260, 5-21=-2147/391,

19-21=-694/4966, 5-19=-187/2359,

6-18=-2587/454, 15-18=-352/3966, 8-18=-433/3133, 8-15=-741/115,

9-15=-516/263, 11-15=-664/218, 11-14=0/287

NOTES

WEBS

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
- All plates are MT20 plates unless otherwise indicated.
- 4) 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 368 lb uplift at joint 2 and 278 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



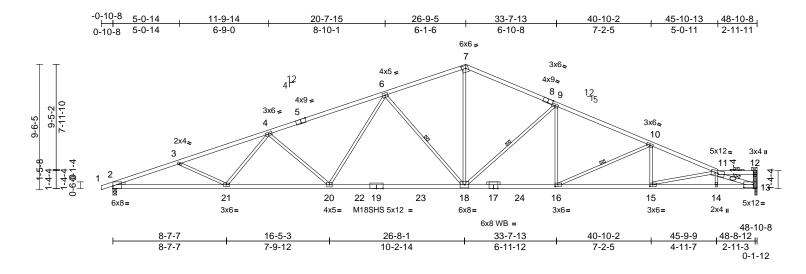
September 7,2021



Ī	Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
	Lot 1 OS	A6	Roof Special	2	1	Job Reference (optional)	147787255

Run: 8.43 E Aug 16 2021 Print: 8.430 E Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 11:30:12 ID:mNMAkoxz07ZFqdnrbi9s3qz6QqR-mSOfkxM3HrFKtKkDCAzZ82J6OjZHHv8rRn176Zyg1ff

Page: 1



Scale = 1:87.4

APPLY 2 X 4 SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-4-8,Edge], [7:0-3-12,0-2-8], [8:0-4-7,Edge], [13:0-8-8,0-2-8], [15:0-2-8,0-1-8], [16:0-2-8,0-1-8]

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	0.90	Vert(LL)	-0.74	18-20	>793	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.26	18-20	>461	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.29	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	18-20	>999	240	Weight: 182 lb	FT = 10%

LUMBER			BOT CHORD	2-21=-894/532	2, 20-21=-7	40/5027,		9) Pro	vide me	chanic	al connection (by	others) of truss to
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	18-20	>999	240	Weight: 182 lb	FT = 10%
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.29	13	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.26	18-20	>461	240	M18SHS	197/144
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.74	18-20	>793	360	MT20	197/144

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 11-12:2x4 SPF No 2

2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 12-13,13-11:2x4 SPF

No.2

OTHERS 2x3 SPF No.2

LBR SCAB 12-13 SPF No.2 one side

Left: 2x3 SPF No.2 WEDGE

BRACING

FORCES

BOT CHORD

TOP CHORD Structural wood sheathing directly applied,

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

(6-0-0 max.): 11-12.

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

bracing, Except: 8-3-6 oc bracing: 2-21

9-1-1 oc bracing: 20-21. WEBS 1 Row at midpt 6-18, 9-18, 11-13, 10-16

REACTIONS (lb/size)

2=2258/0-3-8, (req. 0-3-11), 13=2185/(0-2-0 + bearing block),

(req.0-3-10) Max Horiz 2=167 (LC 8)

Max Uplift 2=-371 (LC 4), 13=-265 (LC 9)

Max Grav 2=2360 (LC 2), 13=2304 (LC 2) (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-5734/867, 3-4=-5598/762,

4-5=-4767/639, 5-6=-4686/669, 6-7=-3370/487, 7-8=-3443/500,

8-9=-3457/468, 9-10=-4332/494

10-11=-5232/566

BOT CHORD

20-22=-470/3912, 19-22=-470/3912, 19-23=-470/3912, 18-23=-470/3912,

17-18=-319/3928, 17-24=-319/3928, 16-24=-319/3928, 15-16=-487/4790,

14-15=-600/5359, 13-14=-606/5360 WEBS 4-21=0/406, 4-20=-856/296, 6-20=-102/1050,

6-18=-1217/351, 7-18=-225/2023, 9-18=-1101/300, 11-13=-5549/617

9-16=-15/635, 10-16=-946/228, 10-15=0/401,

11-15=-582/115

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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 13 greater than input bearing size.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 371 lb uplift at joint 2 and 265 lb uplift at joint 13.
- 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

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



September 7,2021



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

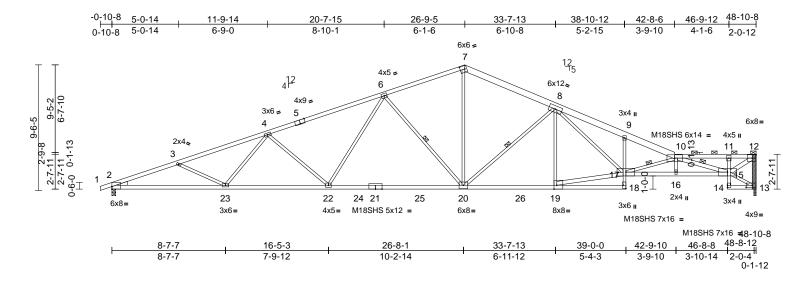
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A7	Roof Special	2	1	Job Reference (optional)	147787256

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:54 ID:YkQT6ze_7F_tPhoBYbjhyGz6QpW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:87.4

APPLY 2 X 4 SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

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	0.89	Vert(LL)	-0.84	20-22	>692	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-1.45	20-22	>403	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.46	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.39	20-22	>999	240	Weight: 208 lb	FT = 10%

LUMBER			BOT CHORD	2-23=-897/532	0, 22-23=-7	43/5024,		9) Pro	vide me	chanic	al connection (by	others) of truss	s to
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.39	20-22	>999	240	Weight: 208 lb	FT = 10%	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.46	13	n/a	n/a	1		
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-1.45	20-22	>403	240	M18SHS	197/144	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.84	20-22	>692	360	MT20	197/144	

2x4 SPF 2100F 1.8E *Except* 7-10:2x6 SPF TOP CHORD

No.2. 10-12:2x4 SPF No.2 2x4 SPF 2100F 1.8E *Except*

BOT CHORD 18-9,11-14:2x3 SPF No.2, 17-15:2x4 SPF

2400F 2.0E, 14-13:2x4 SPF No.2

2x3 SPF No.2 *Except* **WEBS** 12-13,19-17,15-10,15-12:2x4 SPF No.2

LBR SCAB 12-13 SPF No.2 one side

Left: 2x4 SP No.3 WEDGE

BRACING

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

(2-7-15 max.): 10-12.

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

bracing.

1 Row at midpt

WEBS REACTIONS (lb/size)

6-20, 8-20, 10-17, 10-15

2=2258/0-3-8, (req. 0-3-11), 13=2185/(0-2-0 + bearing block),

(req.0-3-10)

Max Horiz 2=171 (LC 12) Max Uplift 2=-370 (LC 4), 13=-268 (LC 9)

Max Grav 2=2359 (LC 2), 13=2303 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-2=0/6, 2-3=-5732/863, 3-4=-5596/759, TOP CHORD

4-6=-4765/666, 6-7=-3376/483, 7-8=-3478/496, 8-9=-6533/764,

9-10=-6606/691, 10-11=-3314/387, 11-12=-3166/369, 12-13=-2251/281 BOT CHORD

20-22=-473/3910, 19-20=-343/3974, 18-19=-15/224, 17-18=0/99, 9-17=-221/137, 16-17=-953/8651, 15-16=-948/8654, 14-15=0/32, 11-15=-322/115, 13-14=-10/35

WEBS 3-23=-218/194, 4-23=0/406, 4-22=-857/296, 6-22=-102/1050, 6-20=-1195/347,

7-20=-220/2028. 8-20=-1133/297. 8-19=-573/133, 17-19=-334/3818, 8-17=-395/2858, 10-17=-2756/344,

10-15=-5630/557, 13-15=-39/34, 12-15=-470/3853, 10-16=-32/101

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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 13 greater than input bearing size.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 370 lb uplift at joint 2 and 268 lb uplift at joint 13.
- 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

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER



September 7,2021



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

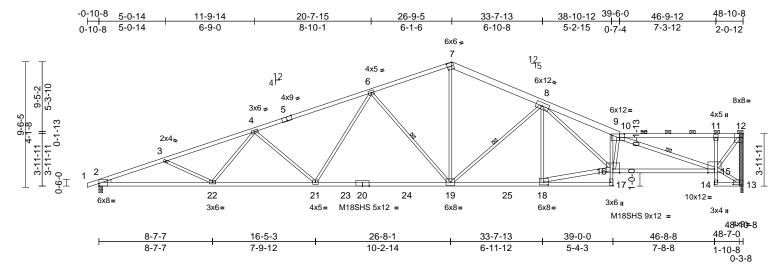
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A8	Roof Special	2	1	Job Reference (optional)	147787257

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Page: 1



Scale = 1:87.4

APPLY 2 X 4 SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-4-8,Edge], [7:0-4-4,0-3-0], [10:0-4-8,0-3-4], [12:0-3-8,Edge], [13:0-5-8,0-2-0], [17:Edge,0-2-8], [18:0-4-0,0-2-8]]
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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	0.89	Vert(LL)	-0.79	19-21	>742	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-1.35	19-21	>432	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.39	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.35	19-21	>999	240	Weight: 211 lb	FT = 10%

LUMBER TOP CHORD 2x4 SPF 2100F 1.8E *Except* 7-10:2x6 SPF

No.2, 10-12:2x4 SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 17-9,11-14:2x3 SPF No.2, 14-13:2x4 SPF

WEBS 2x3 SPF No.2 *Except* 12-13,18-16:2x4 SPF

No.2, 15-10:2x4 SPF 2100F 1.8E 13-12 SPF No.2 one side

LBR SCAB Left: 2x3 SPF No.2 WEDGE

BRACING

TOP CHORD

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

(3-1-9 max.): 10-12.

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

WEBS

6-19, 8-19, 10-15 1 Row at midpt

2=2258/0-3-8, (req. 0-3-11), 13=2185/(0-2-0 + bearing block), REACTIONS (lb/size)

(req.0-3-10)

Max Horiz 2=175 (LC 8)

Max Uplift 2=-368 (LC 4), 13=-272 (LC 9)

Max Grav 2=2359 (LC 2), 13=2303 (LC 2)

FORCES

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

TOP CHORD 2-3=-5732/857, 3-4=-5596/752,

4-5=-4765/628, 5-6=-4684/659,

6-7=-3376/476, 7-8=-3478/489,

8-9=-6564/718, 9-10=-6856/706 10-11=-1738/203, 11-12=-1677/197,

12-13=-2280/274

BOT CHORD

2-22=-898/5320, 21-22=-743/5024, 21-23=-473/3910, 20-23=-473/3910, 20-24=-473/3910, 19-24=-473/3910,

19-25=-391/3973, 18-25=-391/3973, 9-16=-47/503, 15-16=-721/6451,

11-15=-501/211

4-22=0/406, 4-21=-857/296, 6-21=-102/1050, 6-19=-1194/347, 7-19=-214/2026,

8-19=-1131/281, 8-18=-573/138, 16-18=-352/3851, 8-16=-371/2895 10-16=-1640/298, 10-15=-5020/496,

12-15=-386/2874

NOTES

WEBS

- 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 13 greater than input bearing size.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 2 and 272 lb uplift at joint 13.
- 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

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS
MANUFACTURER OR THE BUILDING DESIGNER



September 7,2021

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

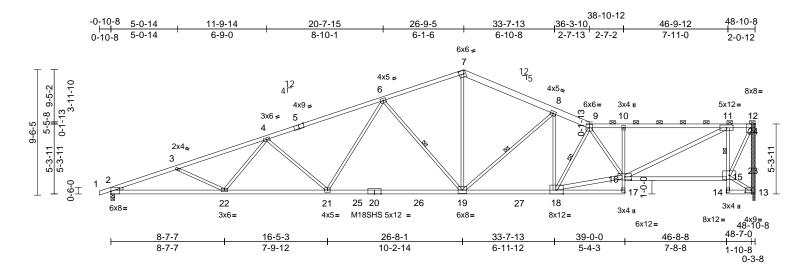
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A9	Roof Special	2	1	Job Reference (optional)	147787258

Run: 8.43 E Aug 16 2021 Print: 8.430 E Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 11:34:25 ID:Y42cy1gl6Miq6loW1ykdvCz6QoB-s7AlqRQmia7RkDZrXp0uuOHMZivU3L34cep0UOyg1bi

Page: 1



Scale = 1:87.4

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

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	0.90	Vert(LL)	-0.72	19-21	>813	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.23	19-21	>474	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.30	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.32	19-21	>999	240	Weight: 215 lb	FT = 10%

LUMBER

2x4 SPF 2100F 1.8E *Except* 7-9:2x6 SPF TOP CHORD

No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except*

17-10,11-14:2x3 SPF No.2, 16-15,14-13:2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 12-13,16-11:2x4 SPF No.2, 18-16:2x4 SPF 2100F 1.8E

LBR SCAB 13-12 SPF No.2 one side

WEDGE Left: 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(2-11-8 max.): 9-12.

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

bracing. Except:

11-15 1 Row at midpt

WEBS 1 Row at midpt 6-19, 8-19, 9-18

2=2258/0-3-8, (req. 0-3-11), 13=2185/(0-2-0 + bearing block), REACTIONS (lb/size)

(req.0-3-10)

Max Horiz 2=219 (LC 7) Max Uplift 2=-364 (LC 4), 13=-279 (LC 9)

Max Grav 2=2360 (LC 2), 13=2304 (LC 2)

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

(lb) or less except when shown TOP CHORD

2-3=-5734/847, 3-4=-5599/742, 4-5=-4766/618, 5-6=-4685/648, 6-7=-3379/465, 7-8=-3480/478, 8-9=-4319/461, 9-10=-4571/473

10-11=-4595/474, 11-12=-1183/131, 13-23=-2286/288, 23-24=-2286/288,

12-24=-2286/288

BOT CHORD 2-22=-897/5322, 21-22=-741/5026,

21-25=-470/3912, 20-25=-470/3912 20-26=-470/3912, 19-26=-470/3912, 19-27=-428/3967, 18-27=-428/3967,

10-16=-528/208, 15-16=-206/1221, 11-15=-2105/387

WEBS

4-22=0/407, 4-21=-857/296, 6-21=-102/1048,

6-19=-1193/347, 7-19=-206/2024, 8-19=-1119/258, 8-18=-3/721, 9-18=-1580/186, 16-18=-476/4692, 9-16=-298/90, 11-16=-381/3788,

12-15=-371/2613

NOTES

- Attached 5-3-11 scab 12 to 13, front face(s) 2x4 SPF 1) No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9" O.C.,
- 2) 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 13 greater than input bearing size.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 364 lb uplift at joint 2 and 279 lb uplift at joint 13.
- 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.

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

LOAD CASE(S) Standard

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



September 7,2021



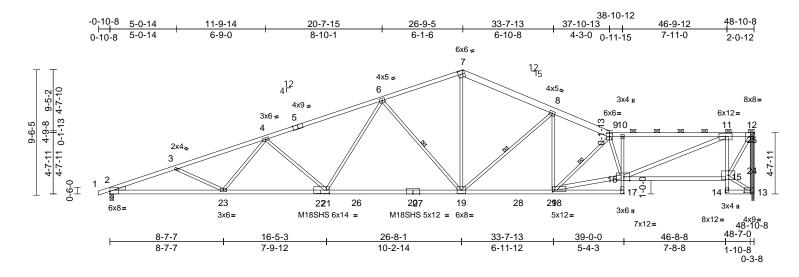
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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



ſ	Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
	Lot 1 OS	A10	Roof Special	2	1	Job Reference (optional)	147787259

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:55 ID:5QY4tJ4?KVs8ZppsTNqMk9z6Qng-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:87.4

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-4-8,Edge], [7:0-4-4,0-3-0], [12:0-3-8,Edge], [13:0-5-8,0-2-0], [16:0-5-4,Edge], [17:Edge,0-2-8], [18:0-1-14,0-1-8], [22:0-2-8,0-3-0]

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	0.90	Vert(LL)	-0.74	19-21	>791	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-1.26	19-21	>461	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.32	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	19-21	>999	240	Weight: 213 lb	FT = 10%

LUMBER 2x4 SPF 2100F 1.8E *Except* 7-9:2x6 SPF TOP CHORD

No.2

2x4 SPF 2100F 1.8E *Except* BOT CHORD

17-10,11-14:2x3 SPF No.2, 16-15,14-13:2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 12-13:2x4 SPF No.2,

18-16,16-11:2x4 SPF 2100F 1.8E

LBR SCAB 13-12 SPF No.2 one side

WEDGE Left: 2x4 SP No.3

BRACING

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

(2-5-6 max.): 9-12.

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

bracing.

WFRS 1 Row at midpt 6-19, 8-19, 9-18

REACTIONS (lb/size) 2=2258/0-3-8, (req. 0-3-11),

13=2185/(0-2-0 + bearing block),

(req.0-3-10) Max Horiz 2=188 (LC 5)

Max Uplift 2=-366 (LC 4), 13=-275 (LC 9)

Max Grav 2=2359 (LC 2), 13=2302 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/6, 2-3=-5731/852, 3-4=-5595/747, 4-6=-4763/654, 6-7=-3376/471,

7-8=-3476/483, 8-9=-4343/470, 9-10=-5466/571, 10-11=-5496/570,

11-12=-1431/166, 12-13=-2282/283 BOT CHORD 2-23=-898/5319, 21-23=-743/5023,

19-21=-472/3909, 18-19=-411/3959, 17-18=-47/142, 16-17=0/91, 10-16=-740/273,

15-16=-232/1481, 14-15=0/24, 11-15=-2095/379, 13-14=-64/0 **WEBS**

3-23=-218/194, 4-23=0/407, 4-21=-857/296, 6-21=-102/1048, 6-19=-1193/347,

7-19=-210/2021, 8-19=-1113/271, 8-18=-11/702, 9-18=-2105/263, 16-18=-552/5392, 9-16=-156/358,

11-16=-434/4365, 13-15=-24/87,

12-15=-379/2730

NOTES

- Attached 4-7-11 scab 12 to 13, front face(s) 2x4 SPF 1) No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9"
- 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 13 greater than input bearing size.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 366 lb uplift at joint 2 and 275 lb uplift at joint 13.
- 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.

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

LOAD CASE(S) Standard

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER



September 7,2021



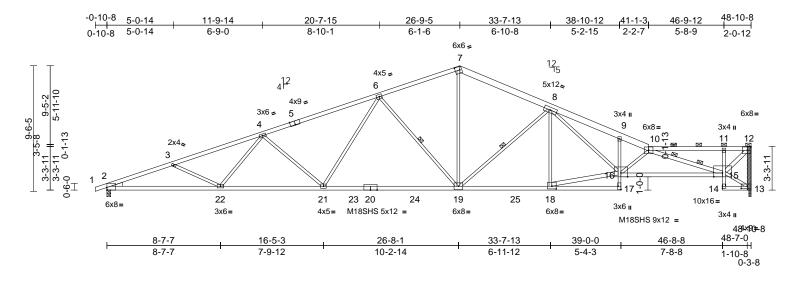
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, 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 1 OS	
Lot 1 OS	A11	Roof Special	2	1	Job Reference (optional)	147787260

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:56 ID:5zbx0xUKKy8Je2PPSWRK7Kz6Qn8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:87.4

APPLY 2 X 4 SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

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

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	0.90	Vert(LL)	-0.80	19-21	>727	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-1.38	19-21	>423	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.40	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.36	19-21	>999	240	Weight: 209 lb	FT = 10%

LUMBER	BOT CHORD 2-22=-898/5320, 21-22=-743/5024, 9) Provide mechanical connection (by others) of true						others) of truss	s to					
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.36	19-21	>999	240	Weight: 209 lb	FT = 10%	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.40	13	n/a	n/a			
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-1.38	19-21	>423	240	M18SHS	197/144	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.80	19-21	>727	360	MT20	197/144	

2x4 SPF 2100F 1.8E *Except* 7-10:2x6 SPF TOP CHORD

No.2. 10-12:2x4 SPF No.2 2x4 SPF 2100F 1.8E *Except*

BOT CHORD 17-9,11-14:2x3 SPF No.2, 16-15:2x4 SPF

2400F 2.0E, 14-13:2x4 SPF No.2

2x3 SPF No.2 *Except* **WEBS**

12-13,18-16,15-10,15-12:2x4 SPF No.2 LBR SCAB

12-13 SPF No.2 one side

Left: 2x4 SP No.3 WEDGE

BRACING

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

(3-4-14 max.): 10-12.

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

bracing.

WEBS 6-19, 8-19 1 Row at midpt

WEBS 2 Rows at 1/3 pts 10-15

2=2258/0-3-8, (req. 0-3-11), 13=2185/(0-2-0 + bearing block), REACTIONS (lb/size)

(rea.0-3-10)

Max Horiz 2=173 (LC 8)

Max Uplift 2=-369 (LC 4), 13=-270 (LC 9)

Max Grav 2=2359 (LC 2), 13=2303 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-5732/860, 3-4=-5596/756,

4-6=-4765/663, 6-7=-3376/480, 7-8=-3479/493, 8-9=-6505/730, 9-10=-6612/672, 10-11=-2269/255 11-12=-2187/250, 12-13=-2278/273

17-18=-45/207, 16-17=0/98, 9-16=-56/86, 15-16=-831/7191, 14-15=0/27, 11-15=-402/161, 13-14=-61/0 WEBS 3-22=-218/194, 4-22=0/406, 4-21=-857/296,

6-21=-102/1050, 6-19=-1195/347, 7-19=-218/2031. 8-19=-1137/291.

8-18=-573/134, 16-18=-330/3847, 8-16=-369/2828, 10-16=-1569/273, 10-15=-5227/567, 13-15=-8/77,

19-21=-473/3910, 18-19=-369/3977,

12-15=-395/3162

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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 13 greater than input bearing size.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 b uplift at joint 2 and 270 lb uplift at joint 13.
- 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

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



September 7,2021

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

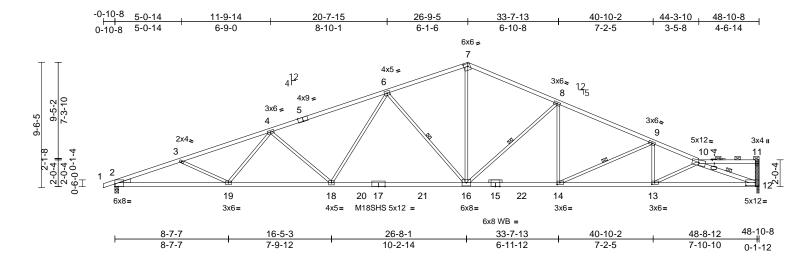
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A12	Roof Special	2	1	Job Reference (optional)	147787261

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:56 ID:mNMAkoxz07ZFqdnrbi9s3qz6QqR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:87.4

APPLY 2 X 4 SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS

2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

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	0.90	Vert(LL)	-0.74	16-18	>792	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.26	16-18	>461	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.29	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	16-18	>999	240	Weight: 184 lb	FT = 10%

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TOP CHORD 2x4 SPF 2100F 1.8E *Except* 10-11:2x4

SPF No 2

BOT CHORD 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 11-12,12-10:2x4 SPF

No.2

OTHERS 2x3 SPF No.2

LBR SCAB 12-11 SPF No.2 one side Left: 2x4 SP No.3

WEDGE **BRACING**

TOP CHORD

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

(6-0-0 max.): 10-11.

BOT CHORD Rigid ceiling directly applied or 8-3-4 oc

bracing.

1 Row at midpt 6-16, 10-12, 8-16, 9-14

WEBS REACTIONS (lb/size)

2=2258/0-3-8, (req. 0-3-11), 13=2185/(0-2-0 + bearing block),

(req.0-3-10) Max Horiz 2=170 (LC 8)

Max Uplift 2=-371 (LC 4), 12=-266 (LC 9)

Max Grav 2=2360 (LC 2), 12=2304 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-5734/865, 3-4=-5598/761,

4-6=-4767/668, 6-7=-3370/485, 7-8=-3457/498, 8-9=-4331/492, 9-10=-5210/544, 10-11=-119/13,

11-12=-184/67

BOT CHORD

TOP CHORD

2-19=-896/5322, 18-19=-742/5027, 16-18=-472/3912, 14-16=-321/3930, 13-14=-495/4777, 12-13=-612/5137

WEBS

3-19=-218/194, 4-19=0/406, 4-18=-856/296, 6-18=-102/1050, 6-16=-1217/351, 7-16=-224/2025, 10-13=-439/132,

10-12=-5409/642, 8-16=-1103/300 8-14=-11/629, 9-13=0/457, 9-14=-930/199

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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 12 greater than input bearing size.
- 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 capable of withstanding 371 lb uplift at joint 2 and 266 lb uplift at joint 12.
- 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

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



September 7,2021

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

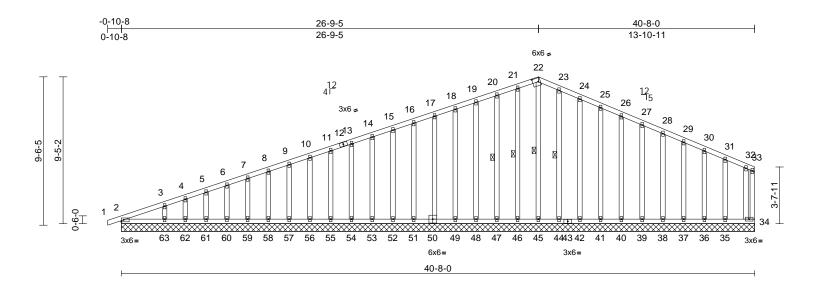


Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A13	Roof Special Supported Gable	2	1	Job Reference (optional)	147787262

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:56 ID:5nBDjN6JJdZ4GtpCxksIh4z6QmL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

TOP CHORD

Page: 1



Scale = 1:74

Plate Offsets	(X, Y):	[22:0-4-7,0-3-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	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	0.11	Horz(CT)	0.00	34	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 273 lb	FT = 10%

BODL		10.0	0000	11102010/1112011	Water	
LUMBER					Max Uplift	2=-7
TOP CHORD	2x4 SPF	No.2				(LC
BOT CHORD	2x4 SPF	No.2				9), 3
WEBS	2x4 SPF	No.2				40=
OTHERS	2x4 SPF	No.2				42=
BRACING						46=
TOP CHORD	Structura	al wood sh	eathing directly a	applied or		48=
TOT OTTOTAL			xcept end vertica			50=
BOT CHORD			ly applied or 10-0			52=
BOT OHORB	bracing.	iiiig aireet	iy applica or 10 c	000		54=
WEBS	1 Row a	t midnt	22-45, 21-46, 2	20-47		56=
WEDO	i itow a	tillapt	23-44	.0-47,		58=
DEACTIONS	(II- /-:)	0.477/4		0.0		60=
REACTIONS	(ID/SIZE)		0-8-0, 34=86/40-	/		62=
		35=131/	40-8-0, 36=118/4	10-8-0,	Max Grav	2=1

37=120/40-8-0, 38=120/40-8-0, 39=120/40-8-0, 40=120/40-8-0, 41=120/40-8-0, 42=120/40-8-0, 44=123/40-8-0, 45=111/40-8-0, 46=123/40-8-0, 47=120/40-8-0, 48=119/40-8-0, 49=122/40-8-0, 50=120/40-8-0, 51=118/40-8-0, 52=120/40-8-0, 53=120/40-8-0, 54=120/40-8-0, 55=120/40-8-0, 56=120/40-8-0, 57=120/40-8-0, 58=120/40-8-0, 59=120/40-8-0, 60=118/40-8-0, 61=131/40-8-0, 62=73/40-8-0, 63=234/40-8-0 Max Horiz 2=175 (LC 8)

FORCES

-7 (LC 9), 34=-14 (LC 4), 35=-50 9), 36=-29 (LC 9), 37=-32 (LC 38=-32 (LC 9), 39=-32 (LC 9), =-32 (LC 9), 41=-32 (LC 9), =-38 (LC 9), 44=-16 (LC 9), =-16 (LC 8), 47=-34 (LC 4), =-29 (LC 4), 49=-28 (LC 8), =-28 (LC 4), 51=-30 (LC 8), =-28 (LC 4), 53=-29 (LC 8), =-28 (LC 8), 55=-28 (LC 4), =-28 (LC 4), 57=-28 (LC 8), =-28 (LC 4), 59=-28 (LC 8), =-28 (LC 4), 61=-30 (LC 8), =-21 (LC 4), 63=-69 (LC 8)

177 (LC 1), 34=86 (LC 1), 35=131 (LC 22), 36=118 (LC 1), 37=120 (LC 22), 38=120 (LC 1), 39=120 (LC 22), 40=120 (LC 1), 41=120 (LC 1), 42=121 (LC 22), 44=123 (LC 22), 45=132 (LC 18), 46=123 (LC 21), 47=121 (LC 21), 48=119 (LC 1), 49=122 (LC 21), 50=120 (LC 1), 51=118 (LC 21), 52=120 (LC 1), 53=120 (LC 21), 54=120 (LC 21), 55=120 (LC 1), 56=120 (LC 1), 57=120 (LC 1), 58=120 (LC 1), 59=120 (LC 1), 60=118 (LC 21), 61=131 (LC 1), 62=73 (LC 21), 63=234 (LC 21)

(lb) - Maximum Compression/Maximum Tension

1-2=0/6, 2-3=-206/48, 3-4=-160/37 4-5=-146/43, 5-6=-132/52, 6-7=-118/62, 7-8=-105/73, 8-9=-91/84, 9-10=-78/95, 10-11=-64/106, 11-13=-50/117, 13-14=-49/128, 14-15=-49/138, 15-16=-49/149, 16-17=-48/160, 17-18=-49/171, 18-19=-49/182, 19-20=-49/193, 20-21=-49/205, 21-22=-48/211, 22-23=-49/211, 23-24=-48/191, 24-25=-46/167, 25-26=-44/151, 26-27=-42/134, 27-28=-40/118, 28-29=-38/102, 29-30=-36/86, 30-31=-41/69, 31-32=-51/53, 32-33=-58/49, 33-34=-34/39



September 7,2021



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A13	Roof Special Supported Gable	2	1	Job Reference (optional)	147787262

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Page: 2

2-63=-49/40. 62-63=-49/40. 61-62=-49/40. BOT CHORD 60-61=-49/40, 59-60=-49/40, 58-59=-49/40, 57-58=-49/40, 56-57=-49/40, 55-56=-49/40, 54-55=-49/40, 53-54=-49/40, 52-53=-49/40, 51-52=-49/40, 49-51=-49/40, 48-49=-49/39, 47-48=-49/39, 46-47=-49/39, 45-46=-49/39, 44-45=-49/39, 42-44=-49/39, 41-42=-49/39, 40-41=-49/39, 39-40=-49/39, 38-39=-49/39, 37-38=-49/39, 36-37=-49/39, 35-36=-49/39, 34-35=-49/39 **WEBS** 22-45=-105/11, 21-46=-97/32, 20-47=-94/50, 19-48=-93/44, 18-49=-93/45, 17-50=-94/44, 16-51=-93/45, 15-52=-93/44, 14-53=-93/44, 13-54=-93/44, 11-55=-93/44, 10-56=-93/44, 9-57=-93/44, 8-58=-93/44, 7-59=-94/45, 6-60=-92/44, 5-61=-100/47, 4-62=-62/31, 3-63=-173/96, 23-44=-97/32, 24-42=-94/54, 25-41=-93/48, 26-40=-93/48, 27-39=-93/48, 28-38=-93/48, 29-37=-93/48, 30-36=-93/43, 31-35=-99/72, 32-34=-64/11

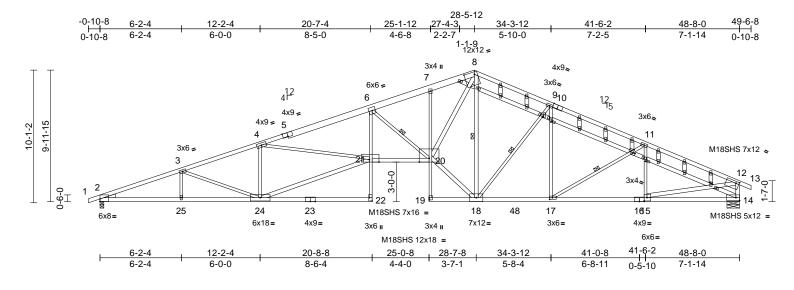
NOTES

- 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 34. 16 lb uplift at joint 46. 34 lb uplift at joint 47. 29 lb uplift at joint 48, 28 lb uplift at joint 49, 28 lb uplift at joint 50, 30 lb uplift at joint 51, 28 lb uplift at joint 52, 29 lb uplift at joint 53, 28 lb uplift at joint 54, 28 lb uplift at joint 55, 28 lb uplift at joint 56, 28 lb uplift at joint 57, 28 lb uplift at joint 58, 28 lb uplift at joint 59, 28 lb uplift at joint 60, 30 lb uplift at joint 61, 21 lb uplift at joint 62, 69 lb uplift at joint 63, 16 lb uplift at joint 44, 38 lb uplift at joint 42, 32 lb uplift at joint 41, 32 lb uplift at joint 40, 32 lb uplift at joint 39, 32 lb uplift at joint 38, 32 lb uplift at joint 37, 29 lb uplift at joint 36, 50 lb uplift at joint 35 and 7 lb uplift at joint 2.
- 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.

Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A14	Roof Special Structural Gable	2	1	Job Reference (optional)	147787263

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Scale = 1:87.6

[2:Edge,0-2-5], [5:0-4-8,Edge], [8:0-9-4,0-2-4], [10:0-4-5,Edge], [12:0-3-0,0-1-12], [15:0-2-8,0-3-0], [16:0-4-6,Edge], [17:0-2-8,0-1-8], [21:0-8-12,Edge], Plate Offsets (X, Y): [22:Edge,0-2-8], [29:0-0-3,0-1-2], [30:0-1-4,0-1-0], [31:0-2-0,0-0-4], [31:0-1-12,0-1-8], [32:0-1-4,0-1-0], [33:0-1-4,0-1-0]

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	0.88	Vert(LL)	-0.75	22-24	>770	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-1.37	22-24	>424	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.53	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.50	22	>999	240	Weight: 260 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 5-8:2x6 SPF No.2,

1-5:2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 22-6,7-19:2x3

SPF No.2, 23-22,16-14:2x4 SPF No.2

WFBS 2x4 SPF No.2 *Except*

3-25,24-3,4-24,21-4,20-6,18-9,17-9,17-11,15-

11:2x3 SPF No.2, 24-21,20-8:2x4 SPF 2100F

1.8E

OTHERS 2x4 SPF No.2 WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-1-9 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 6-20, 8-18, 9-18, 11-17

REACTIONS (lb/size) 2=2248/0-3-8, (req. 0-3-10),

14=2248/0-11-8

Max Horiz 2=170 (LC 12) Max Uplift 2=-380 (LC 4), 14=-267 (LC 9)

Max Grav 2=2309 (LC 2), 14=2324 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-5719/842, 3-4=-5187/764, 4-6=-7360/1050, 6-7=-5289/744,

7-8=-5262/793, 8-9=-3084/505, 9-11=-3537/464, 11-12=-3620/386,

12-13=0/27, 12-14=-2205/302 BOT CHORD 2-25=-863/5315, 24-25=-863/5315

> 22-24=0/51, 21-22=0/148, 6-21=-197/1916, 20-21=-883/6938, 19-20=0/45,

7-20=-265/106, 18-19=-4/14, 17-18=-255/3191, 15-17=-289/3270,

14-15=-70/227

WFBS 3-25=0/212, 3-24=-515/167, 4-24=-1390/311,

> 21-24=-764/5144, 4-21=-175/2075 6-20=-2609/500, 18-20=-292/3696,

8-20=-626/4790. 8-18=-1716/220. 9-18=-719/232, 9-17=0/365, 11-17=-252/148,

11-15=-415/141, 12-15=-248/3099

NOTES

1)

- 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 MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 380 lb uplift at joint 2 and 267 lb uplift at joint 14.
- 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



September 7,2021



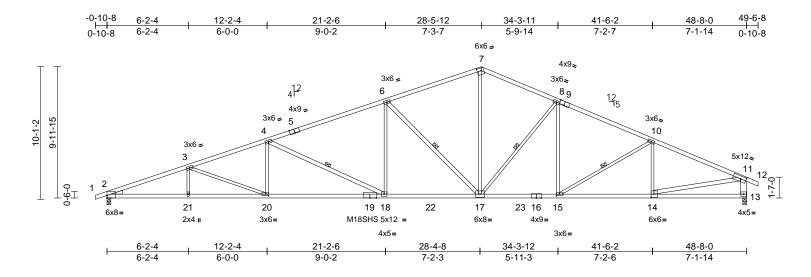
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 1 OS	
Lot	1 OS	A15	Roof Special	2	1	Job Reference (optional)	147787264

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Scale = 1:87.6

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-4-8,Edge], [7:0-3-12,0-2-8], [9:0-4-7,Edge], [11:0-4-15,0-2-8], [14:0-2-8,0-3-0], [15:0-2-8,0-1-8], [20:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.51	18-20	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.94	18-20	>619	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.24	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.31	18-20	>999	240	Weight: 196 lb	FT = 10%

LUMBER

BOT CHORD

2x4 SPF 2100F 1.8E *Except* 7-9,9-12:2x4 TOP CHORD

SPF No.2

2x4 SPF 2100F 1.8E *Except* 16-13:2x4

SPF No 2

WEBS 2x3 SPF No.2 *Except* 17-6,14-11,18-4:2x4

SPF No.2, 13-11:2x6 SPF No.2

WEDGE Left: 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals.

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

WEBS

6-17, 8-17, 10-15, 4-18 1 Row at midpt

REACTIONS (lb/size)

2=2244/0-3-8, (req. 0-3-11),

13=2251/0-3-8, (req. 0-3-11) Max Horiz 2=171 (LC 8)

Max Uplift 2=-379 (LC 4), 13=-268 (LC 9)

Max Grav 2=2333 (LC 2), 13=2350 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-5793/834, 3-4=-5265/775, TOP CHORD

4-6=-4134/611, 6-7=-3052/481, 7-8=-3109/503, 8-10=-3568/462

10-11=-3622/382, 11-12=0/30, 11-13=-2233/304

BOT CHORD 2-21=-855/5370, 20-21=-855/5370,

18-20=-728/4953, 17-18=-461/3847, 15-17=-253/3220, 14-15=-283/3271,

13-14=-78/243

WEBS 6-17=-1469/344, 7-17=-213/1789,

8-17=-724/237, 8-15=0/348, 10-15=-230/142, 10-14=-426/140, 11-14=-241/3088, 3-21=0/225, 3-20=-479/144, 4-20=0/446,

4-18=-1234/297, 6-18=-23/870

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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 13 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 379 lb uplift at joint 2 and 268 lb uplift at joint 13.
- 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



September 7,2021



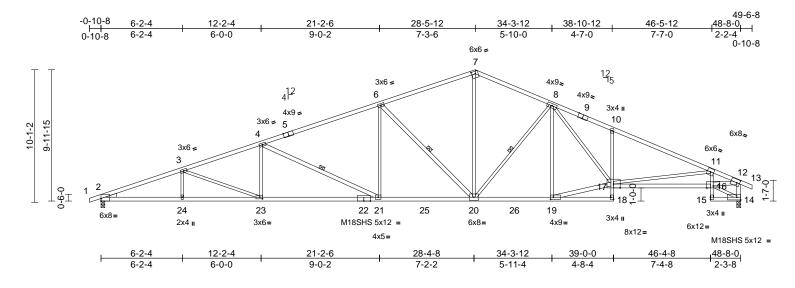
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 1 OS	
Lot 1 OS	A16	Roof Special	5	1	Job Reference (optional)	147787265

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Page: 1



Scale = 1:87.6

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-4-8,Edge], [7:0-3-8,0-2-4], [9:0-4-8,Edge], [12:0-2-9,0-3-0], [18:Edge,0-2-8], [19:0-2-8,0-2-0], [23:0-2-8,0-1-8]

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	0.81	Vert(LL)	-0.53	21-23	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.96	21-23	>602	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.35	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.32	21-23	>999	240	Weight: 205 lb	FT = 10%

ш	м	R	F	R

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 7-9:2x4 SPF

No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except*

18-10,11-15:2x3 SPF No.2, 15-14:2x4 SPF

No.2

WEBS 2x3 SPF No.2 *Except*

20-6,19-17,14-12,21-4,16-12:2x4 SPF No.2

WEDGE Left: 2x4 SP No.3

BRACING

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

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

bracing.

WEBS 1 Row at midpt 6-20, 8-20, 4-21 **REACTIONS** (lb/size) 2=2248/0-3-8, (req. 0-3-11),

14=2248/0-3-8, (req. 0-3-11) Max Horiz 2=171 (LC 8)

Max Horiz 2=171 (LC 8) Max Uplift 2=-380 (LC 4), 14=-267 (LC 9) Max Grav 2=2337 (LC 2), 14=2349 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-5804/835, 3-4=-5277/776,

4-6=-4146/612, 6-7=-3066/482, 7-8=-3117/502, 8-10=-4503/560, 10-11=-4562/487, 11-12=-4108/477,

12-13=0/27, 12-14=-2293/259 BOT CHORD 2-24=-856/5381, 23-24=-856/538

2-24=-856/5381, 23-24=-856/5381, 21-23=-729/4965, 20-21=-463/3858,

19-20=-252/3223, 18-19=-38/95, 17-18=0/77, 10-17=-427/220, 16-17=-467/3956,

15-16=0/30, 11-16=-535/155, 14-15=-41/69 WEBS 6-20=-1467/344, 7-20=-207/1779,

6-20=-1467/344, 7-20=-207/1779, 8-20=-706/228, 8-19=-538/116, 17-19=-220/3227, 8-17=-255/1497,

11-17=-76/291, 3-24=0/225, 3-23=-479/143, 4-23=0/446, 4-21=-1235/297, 6-21=-24/869,

14-16=-61/60, 12-16=-457/3804

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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) WARNING: Required bearing size at joint(s) 2, 14 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 380 lb uplift at joint 2 and 267 lb uplift at joint 14.
- 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.



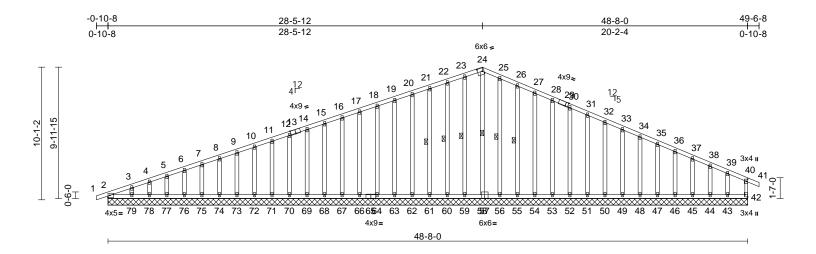
September 7,2021





Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A17	Roof Special Supported Gable	2	1	Job Reference (optional)	147787266

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:59 ID: W3M06mk9XdimnHGkYBzAJ9yhzRo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:87.6

Plate Offsets (X, Y):	[13:0-4-8,Edge]	, [24:0-4-7,0-3-0], [29:	0-2-6,Edge], [40:0-2-0,	0-1-4], [42:Edge,0-2-8]	

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	0.08	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	0.11	Horz(CT)	0.00	42	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 322 lb	FT = 10%

LUMBER					Max Uplift	2=-46 (LC 9), 42=-14 (LC 5),
TOP CHORD	2x4 SPF I	No.2			·	43=-80 (LC 9), 44=-20 (LC 9),
BOT CHORD	2x4 SPF I					45=-35 (LC 9), 46=-31 (LC 9),
WEBS	2x3 SPF I	No.2				47=-32 (LC 9), 48=-32 (LC 9),
OTHERS	2x4 SPF I	No.2				49=-32 (LC 9), 50=-32 (LC 9),
BRACING						51=-32 (LC 9), 52=-32 (LC 9),
TOP CHORD	Structura	I wood sh	eathing directly applied or			53=-32 (LC 9), 54=-32 (LC 9),
			xcept end verticals.			55=-41 (LC 9), 56=-7 (LC 9),
BOT CHORD			y applied or 6-0-0 oc			59=-12 (LC 8), 60=-35 (LC 4),
	bracing.		,			61=-29 (LC 4), 62=-28 (LC 8),
WEBS	1 Row at	midpt	24-58, 23-59, 22-60,			63=-28 (LC 4), 64=-28 (LC 4),
		•	21-61, 25-56, 26-55			66=-28 (LC 8), 67=-28 (LC 8),
REACTIONS	(lb/size)	2=147/4	8-8-0. 42=147/48-8-0.			68=-28 (LC 4), 69=-28 (LC 8), 70=-28 (LC 4), 71=-28 (LC 8),
	(,)		48-8-0, 44=123/48-8-0,			72=-28 (LC 4), 71=-28 (LC 8), 72=-28 (LC 4), 73=-28 (LC 8),
		45=120/	48-8-0, 46=120/48-8-0,			74=-28 (LC 4), 75=-28 (LC 8),
		47=120/	48-8-0, 48=120/48-8-0,			76=-29 (LC 4), 77=-29 (LC 8),
		49=120/	48-8-0, 50=120/48-8-0,			78=-30 (LC 4), 79=-53 (LC 8)
			48-8-0, 52=120/48-8-0,		Max Grav	2=147 (LC 21), 42=147 (LC 1),
			48-8-0, 54=120/48-8-0,		max o.u.	43=107 (LC 22), 44=123 (LC 1),
			48-8-0, 56=124/48-8-0,			45=120 (LC 22), 46=120 (LC 1),
			48-8-0, 59=124/48-8-0,			47=120 (LC 22), 48=120 (LC 1),
			48-8-0, 61=120/48-8-0,			49=120 (LC 22), 50=120 (LC 1),
			48-8-0, 63=120/48-8-0,			51=120 (LC 22), 52=120 (LC 22),
			48-8-0, 66=120/48-8-0, 48-8-0, 68=120/48-8-0,			53=120 (LC 1), 54=120 (LC 1),
			48-8-0, 70=120/48-8-0,			55=121 (LC 22), 56=124 (LC 1),
			48-8-0, 72=120/48-8-0,			58=178 (LC 9), 59=124 (LC 1),
			48-8-0, 74=120/48-8-0,			60=121 (LC 21), 61=120 (LC 1),
			48-8-0, 76=120/48-8-0,			62=120 (LC 1), 63=120 (LC 21),
			48-8-0, 78=113/48-8-0,			64=120 (LC 21), 66=120 (LC 1),
		79=143/				67=120 (LC 21), 68=120 (LC 1), 69=120 (LC 1), 70=120 (LC 1),
	Max Horiz	2=171 (l	_C 8)			71=120 (LC 1), 70=120 (LC 1), 71=120 (LC 1), 72=120 (LC 1),
		,	,			73=120 (LC 1), 72=120 (LC 1), 73=120 (LC 21), 74=120 (LC 1),
						75=120 (LC 21), 74=120 (LC 1), 75=120 (LC 21), 76=120 (LC 1),
						77=122 (LC 21), 78=113 (LC 1),
						79=143 (LC 1)
				FORCES	(lb) - Max	imum Compression/Maximum

TOP CHORD 1-2=0/6, 2-3=-195/121, 3-4=-160/120, 4-5=-144/126, 5-6=-131/137, 6-7=-117/147, 7-8=-104/158, 8-9=-90/169, 9-10=-76/180, 10-11=-63/191, 11-12=-49/202, 12-14=-38/213, 14-15=-38/223, 15-16=-38/234, 16-17=-38/245, 17-18=-38/256, 18-19=-38/267, 19-20=-38/278, 20-21=-38/288, 21-22=-38/299, 22-23=-38/312, 23-24=-37/315, 24-25=-38/317, 25-26=-37/302, 26-27=-34/274, 27-28=-32/250, 28-30=-31/225, 30-31=-29/201, 31-32=-27/176, 32-33=-25/152, 33-34=-23/127, 34-35=-21/103, 35-36=-19/86, 36-37=-17/69, 37-38=-17/53, 38-39=-20/37, 39-40=-44/23, 40-41=0/26, 40-42=-135/34



September 7,2021

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

Tension



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A17	Roof Special Supported Gable	2	1	Job Reference (optional)	147787266

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:52:59 ID:W3M06mk9XdimnHGkYBzAJ9yhzRo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

2-79=-15/30. 78-79=-15/30. 77-78=-15/30. BOT CHORD 76-77=-15/30, 75-76=-15/30, 74-75=-15/30, 73-74=-15/30, 72-73=-15/30, 71-72=-15/30, 70-71=-15/30, 69-70=-15/30, 68-69=-15/30, 67-68=-15/30, 66-67=-15/30, 64-66=-15/30, 63-64=-15/30, 62-63=-15/30, 61-62=-15/30, 60-61=-15/30, 59-60=-15/30, 58-59=-15/30, 56-58=-15/30, 55-56=-15/30, 54-55=-15/30, 53-54=-15/30, 52-53=-15/30, 51-52=-15/30, 50-51=-15/30, 49-50=-15/30, 48-49=-15/30, 47-48=-15/30, 46-47=-15/30, 45-46=-15/30, 44-45=-15/30, 43-44=-15/30, 42-43=-15/30 **WEBS** 24-58=-162/4, 23-59=-97/28, 22-60=-94/51, 21-61=-93/45, 20-62=-93/44, 19-63=-93/44, 18-64=-93/44, 17-66=-93/44, 16-67=-93/44, 15-68=-93/44, 14-69=-93/44, 12-70=-93/44, 11-71=-93/44, 10-72=-93/44, 9-73=-93/44, 8-74=-93/44, 7-75=-93/44, 6-76=-93/44, 5-77=-94/45, 4-78=-89/44, 3-79=-109/73 25-56=-97/23, 26-55=-94/57, 27-54=-93/48, 28-53=-93/48, 30-52=-93/48, 31-51=-93/48, 32-50=-93/48, 33-49=-93/48, 34-48=-93/48, 35-47=-93/48, 36-46=-93/48, 37-45=-93/49, 38-44=-97/43, 39-43=-77/71

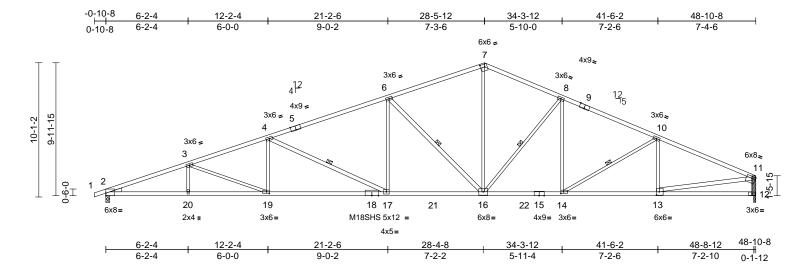
NOTES

- 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 42, 46 lb uplift at joint 2, 12 lb uplift at joint 59, 35 lb uplift at joint 60, 29 lb uplift at joint 61, 28 lb uplift at joint 62, 28 lb uplift at joint 63, 28 lb uplift at joint 64, 28 lb uplift at joint 66, 28 lb uplift at joint 67, 28 lb uplift at joint 68, 28 lb uplift at joint 69, 28 lb uplift at joint 70, 28 lb uplift at joint 71, 28 lb uplift at joint 72, 28 lb uplift at joint 73, 28 lb uplift at joint 74, 28 lb uplift at joint 75, 29 lb uplift at joint 76, 29 lb uplift at joint 77, 30 lb uplift at joint 78, 53 lb uplift at joint 79, 7 lb uplift at joint 56, 41 lb uplift at joint 55, 32 lb uplift at joint 54, 32 lb uplift at joint 53, 32 lb uplift at joint 52, 32 lb uplift at joint 51, 32 lb uplift at joint 50, 32 lb uplift at joint 49, 32 lb uplift at joint 48, 32 lb uplift at joint 47, 31 lb uplift at joint 46, 35 lb uplift at joint 45, 20 lb uplift at joint 44 and 80 lb uplift at joint 43.
- 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.

Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A18	Roof Special	2	1	Job Reference (optional)	147787267

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Page: 1



Scale = 1:86.6

APPLY 2 X 4 SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-4-8,Edge], [7:0-3-12,0-2-8], [9:0-4-8,Edge], [11:0-3-0,0-1-12], [13:0-2-8,0-3-0], [14:0-2-8,0-1-8], [19:0-2-8,0-1-8]

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	0.81	Vert(LL)	-0.51	17-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.94	17-19	>623	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.23	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.31	17-19	>999	240	Weight: 197 lb	FT = 10%

L	Ū	M	В	Е	F

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 7-9:2x4 SPF

No 2

BOT CHORD 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* **WEBS**

12-11,13-11,4-17,6-16:2x4 SPF No.2

LBR SCAB 12-11 SPF No.2 one side WEDGE Left: 2x4 SP No.3

BRACING

WFRS

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 8-5-2 oc

bracing.

8-16, 10-14, 4-17, 6-16 1 Row at midpt

REACTIONS (lb/size)

TOP CHORD

2=2258/0-3-8, (req. 0-3-11), 13=2185/(0-2-0 + bearing block),

(req.0-3-10)

Max Horiz 2=178 (LC 8)

Max Uplift 2=-380 (LC 4), 12=-246 (LC 9)

Max Grav 2=2348 (LC 2), 12=2299 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-5833/837, 3-4=-5308/779,

4-6=-4178/615, 6-7=-3097/484, 7-8=-3153/506 8-10=-3642/468

BOT CHORD

10-11=-3781/397, 11-12=-2176/282 2-20=-867/5408, 19-20=-867/5408, 17-19=-740/4994, 16-17=-474/3889

14-16=-266/3285, 13-14=-312/3422,

12-13=-53/213

WEBS

7-16=-214/1815, 8-16=-755/239, 8-14=-5/393, 10-14=-314/159, 10-13=-387/144, 11-13=-276/3257, 3-20=0/225, 3-19=-478/143, 4-19=0/446, 4-17=-1234/297, 6-17=-23/870, 6-16=-1469/344

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
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- WARNING: Required bearing size at joint(s) 2, 12 greater than input bearing size.
- 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 capable of withstanding 380 lb uplift at joint 2 and 246 lb uplift at joint 12.
- 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

SUPPLEMENTARY BEARING PLATES SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



September 7,2021



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

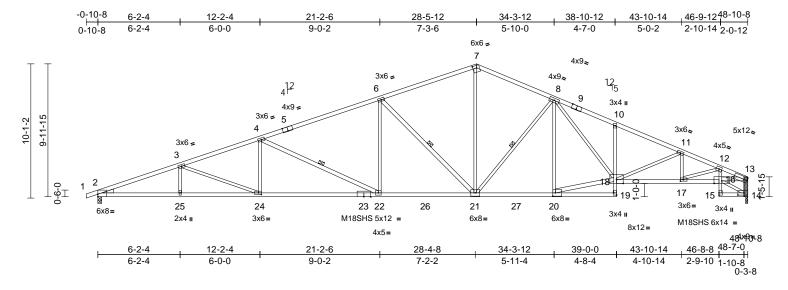
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A19	Roof Special	5	1	Job Reference (optional)	147787268

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:53:00 ID:0q1nA6KoxtqELzK4M5cyP?yi?S8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.6

APPLY 2 X 4 SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

Plate Offsets (X, Y):	Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-4-8,Edge], [7:0-3-8,0-2-4], [9:0-4-8,Edge], [14:0-5-8,0-2-0], [17:0-2-8,0-1-8], [19:Edge,0-2-8], [20:0-2-8,0-3-0], [24:0-2-8,0-1-8]											
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	тс	0.81	Vert(LL)	-0.55	22-24	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.76	Vert(CT)	-1.01	22-24	>579	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.40	14	n/a	n/a	1	
BCDI	10.0	Codo	IDC2019/TDI2014	Motriy C		Wind(LL)	0.24	22 24	~000	240	Weight: 207 lb	ET _ 109/

Loading	(psi)	Spacing	2-0-0	Col		DELL	III	(100)	i/deli	L/u	PLAIES	GKIF	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.55	22-24	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-1.01	22-24	>579	240	M18SHS	197/144	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.40	14	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.34	22-24	>999	240	Weight: 207 lb	FT = 10%	
LUMBER	BER BOT CHORD 2-25=-867/5408, 24-25=-867/5408, 8) Provide mechanical connection (by others) of trust					others) of truss to	 io						

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 7-9,9-13:2x4

SPF No 2

BOT CHORD 2x4 SPF 2100F 1.8E *Except*

19-10,12-15:2x3 SPF No.2, 15-14:2x4 SPF

No.2

WEBS 2x3 SPF No.2 *Except*

21-6,20-18,14-13,22-4:2x4 SPF No.2,

13-16:2x4 SPF 2100F 1.8E

14-13 SPF No.2 one side LBR SCAB WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

8-5-11 oc bracing: 2-25 8-5-2 oc bracing: 24-25

9-1-3 oc bracing: 22-24.

WEBS 1 Row at midpt 6-21, 8-21, 4-22

REACTIONS (lb/size) 2=2258/0-3-8, (req. 0-3-11), 13=2185/(0-2-0 + bearing block),

(req.0-3-10)

Max Horiz 2=178 (LC 12)

Max Uplift 2=-380 (LC 4), 14=-246 (LC 9)

Max Grav 2=2348 (LC 2), 14=2299 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/6, 2-3=-5833/837, 3-4=-5308/779, 4-6=-4178/615, 6-7=-3098/484, 7-8=-3151/504, 8-10=-4553/556

10-11=-4584/501, 11-12=-4865/515, 12-13=-5014/546, 13-14=-2219/260

2-25=-867/5408, 24-25=-867/5408, **BOT CHORD** 22-24=-740/4994, 21-22=-474/3888,

20-21=-265/3275, 19-20=-18/137, 18-19=0/79, 10-18=-305/160,

17-18=-438/4491, 16-17=-507/4674, 15-16=0/36, 12-16=0/132, 14-15=-13/131

WEBS 6-21=-1467/344, 7-21=-210/1806, 8-21=-737/234. 8-20=-542/123. 18-20=-253/3212. 8-18=-247/1503.

11-18=-390/129, 12-17=-195/71, 11-17=-92/76, 13-16=-483/4515,

14-16=-87/21, 3-25=0/225, 3-24=-477/143, 4-24=0/446, 4-22=-1234/297, 6-22=-24/869

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 All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 14 greater than input bearing size.
- 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 380 lb uplift at joint 2 and 246 lb uplift at joint 14.
- 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

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



September 7,2021



Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

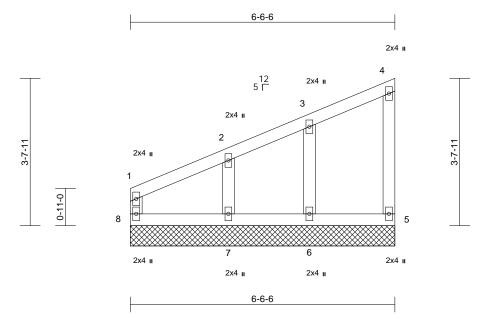
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	A20	Monopitch Supported Gable	2	1	Job Reference (optional)	147787269

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:53:01 ID:a78XY5DQKbrHjrYYzIQ5ftyhz7p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = $1:28$

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	0.06	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	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 24 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 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. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (lb/size) 5=77/6-6-6, 6=181/6-6-6,

7=218/6-6-6, 8=85/6-6-6 Max Horiz 8=139 (LC 5)

Max Uplift 5=-26 (LC 5), 6=-33 (LC 8), 7=-92

(LC 8)

Max Grav 5=77 (LC 1), 6=181 (LC 1), 7=218

(LC 1), 8=112 (LC 16) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-101/32, 2-3=-76/22, 3-4=-66/30,

4-5=-59/26, 1-8=-81/0 **BOT CHORD** 7-8=-48/34, 6-7=-48/34, 5-6=-48/34

2-7=-166/102, 3-6=-143/61 WEBS

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.
- 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.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5, 92 lb uplift at joint 7 and 33 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.

LOAD CASE(S) Standard



September 7,2021



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

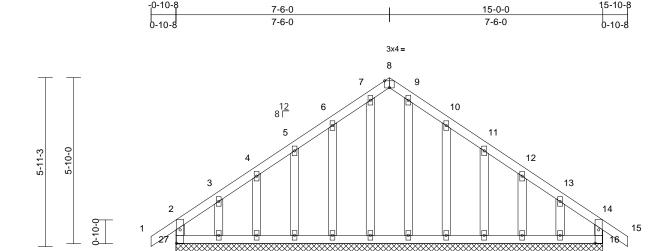
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Jo	b	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lo	t 1 OS	B1	Common Supported Gable	3	1	Job Reference (optional)	147787270

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:53:01 ID:e1NgcMxfWJjWVERPrfaxr8z6Qjz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.5

Plate Offsets (X, Y): [8:0-2-0,Edge], [16:0-5-10,0-1-8], [27:0-5-10,0-1-8]

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	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 76 lb	FT = 10%

23

LUMBER TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS **OTHERS** 2x4 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 6-0-0 oc

bracing.

REACTIONS (lb/size) 16=149/15-0-0, 17=98/15-0-0, 18=125/15-0-0, 19=119/15-0-0, 20=119/15-0-0, 21=123/15-0-0,

22=123/15-0-0, 23=119/15-0-0, 24=119/15-0-0, 25=125/15-0-0, 26=98/15-0-0, 27=149/15-0-0

Max Horiz 27=-169 (LC 6)

Max Uplift 16=-36 (LC 5), 17=-96 (LC 9), 18=-34 (LC 9), 19=-48 (LC 9), 20=-64 (LC 9), 23=-63 (LC 8), 24=-49 (LC 8), 25=-33 (LC 8),

26=-103 (LC 8), 27=-62 (LC 4) Max Grav 16=151 (LC 22), 17=139 (LC 16), 18=125 (LC 22), 19=125 (LC 16), 20=127 (LC 16), 21=127 (LC 17), 22=133 (LC 18), 23=124 (LC 15),

24=126 (LC 15), 25=125 (LC 21), 26=152 (LC 15), 27=172 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD

2-27=-141/52, 1-2=0/40, 2-3=-111/102, 3-4=-76/74, 4-5=-68/81, 5-6=-55/106, 6-7=-45/139, 7-8=-33/107, 8-9=-29/103 9-10=-25/125, 10-11=-33/93, 11-12=-42/68, 12-13=-49/54, 13-14=-81/70, 14-15=0/40, 14-16=-135/31

BOT CHORD

26

3x10 II

25

26-27=-76/89, 25-26=-76/89, 24-25=-76/89, 23-24=-76/89, 22-23=-76/89, 21-22=-76/89, 20-21=-76/89, 19-20=-76/89, 18-19=-76/89, 17-18=-76/89, 16-17=-76/89

22

21

15-0-0

20

19

WEBS 3-26=-105/91, 4-25=-98/56, 5-24=-98/62, 6-23=-98/79, 7-22=-107/4, 9-21=-100/0, 10-20=-100/81, 11-19=-98/62, 12-18=-98/57,

13-17=-98/87

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.
- 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 62 lb uplift at joint 27, 36 lb uplift at joint 16, 103 lb uplift at joint 26, 33 lb uplift at joint 25, 49 lb uplift at joint 24, 63 lb uplift at joint 23, 64 lb uplift at joint 20, 48 lb uplift at joint 19, 34 lb uplift at joint 18 and 96 lb uplift at joint 17.

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

18

17

3x10 II



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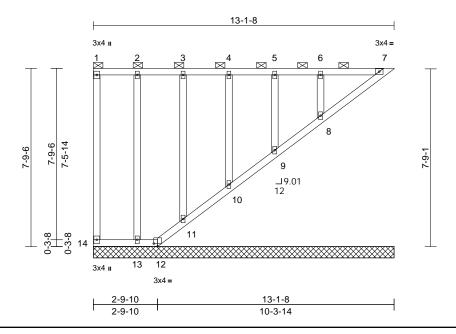
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	LAY1	Lay-In Gable	2	1	Job Reference (optional)	I47787271

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:53:01 ID:?Q2IsETSTEcOc9Ez6n2sIWz6QxV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.3

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

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 68 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

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 9-10,7-8.

REACTIONS (lb/size)

7=103/13-1-8, 8=262/13-1-8, 9=152/13-1-8, 10=188/13-1-8, 11=174/13-1-8, 12=9/13-1-8, 13=178/13-1-8, 14=66/13-1-8

Max Horiz 14=-213 (LC 6)

Max Uplift 7=-80 (LC 5), 8=-49 (LC 4), 9=-29 (LC 5), 10=-35 (LC 4), 11=-49 (LC

5), 12=-109 (LC 6), 13=-62 (LC 5),

14=-17 (LC 4)

Max Grav 7=124 (LC 15), 8=262 (LC 1), 9=152 (LC 1), 10=188 (LC 1),

11=174 (LC 1), 12=95 (LC 5), 13=178 (LC 1), 14=66 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-14=-63/58, 1-2=-106/80, 2-3=-106/80, 3-4=-106/80, 4-5=-106/80, 5-6=-106/80,

6-7=-106/80

BOT CHORD 13-14=-80/106. 12-13=-80/106.

11-12=-106/146, 10-11=-107/145, 9-10=-108/144, 8-9=-107/147, 7-8=-110/148

WEBS 2-13=-142/92, 3-11=-140/65, 4-10=-144/60,

5-9=-121/51, 6-8=-198/79

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. Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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 17 lb uplift at joint 14, 80 lb uplift at joint 7, 109 lb uplift at joint 12, 62 lb uplift at joint 13, 49 lb uplift at joint 11, 35 lb uplift at joint 10, 29 lb uplift at joint 9 and 49 lb uplift at joint 8.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 11, 10, 9, 8.
- 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 7,2021



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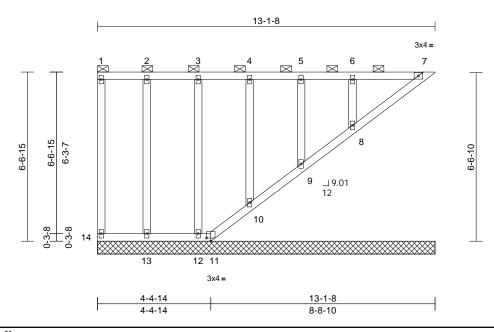
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	LAY2	Lay-In Gable	2	1	Job Reference (optional)	147787272

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Page: 1



Scale = 1:44.8

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

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 64 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

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, except

end verticals.

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

bracing, Except:

6-0-0 oc bracing: 9-10,7-8.

REACTIONS (lb/size)

7=103/13-1-8, 8=261/13-1-8, 9=153/13-1-8, 10=185/13-1-8, $11 = 7/13 - 1 - 8, \ 12 = 172/13 - 1 - 8,$ 13=186/13-1-8. 14=65/13-1-8

Max Horiz 14=-178 (LC 6)

Max Uplift 7=-70 (LC 5), 8=-49 (LC 4), 9=-29 (LC 5), 10=-36 (LC 5), 11=-47 (LC

6), 12=-48 (LC 4), 13=-39 (LC 5),

14=-15 (LC 4)

Max Grav 7=114 (LC 15), 8=261 (LC 1), 9=153 (LC 1), 10=185 (LC 1), 11=47 (LC 5), 12=172 (LC 1),

13=186 (LC 1), 14=65 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-51/47, 1-2=-89/68, 2-3=-89/68,

3-4=-89/68, 4-5=-89/68, 5-6=-89/68,

6-7=-89/68

BOT CHORD 13-14=-68/89, 12-13=-68/89, 11-12=-68/89,

10-11=-88/124, 9-10=-92/123, 8-9=-91/125,

7-8=-94/126

WEBS 2-13=-143/82, 3-12=-139/62, 4-10=-144/60,

5-9=-121/51, 6-8=-198/79

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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 15 lb uplift at joint 14, 70 lb uplift at joint 7, 47 lb uplift at joint 11, 39 lb uplift at joint 13, 48 lb uplift at joint 12, 36 lb uplift at joint 10, 29 lb uplift at joint 9 and 49 lb uplift at joint 8
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 10, 9, 8.
- 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 7,2021



FORCES

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

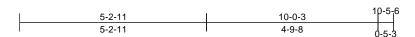
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

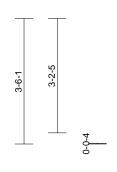


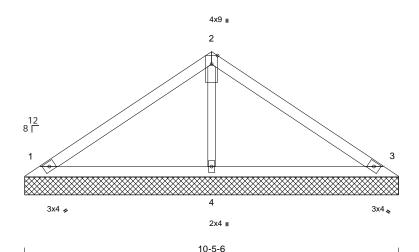
Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	V1	Valley	1	1	Job Reference (optional)	147787273

Run: 8.43 S Aug 16 2021 Print: 8.430 S Aug 16 2021 MiTek Industries, Inc. Tue Sep 07 08:53:02 ID:e8vIQv7tT8SU69TA8W3HcOyi?AK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:32.2

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	0.32	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 27 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 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 (lb/size) 1=221/10-5-6, 3=221/10-5-6,

4=418/10-5-6

Max Horiz 1=-83 (LC 4) 1=-42 (LC 8), 3=-52 (LC 9), 4=-16 Max Uplift

(LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-165/79, 2-3=-164/60

BOT CHORD 1-4=-16/76, 3-4=-16/76

WEBS 2-4=-272/69

NOTES

- 1) 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.
- 4) 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.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 52 lb uplift at joint 3 and 16 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.



September 7,2021

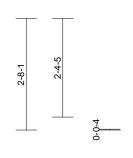


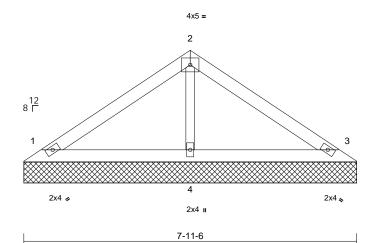
Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	V2	Valley	1	1	Job Reference (optional)	147787274

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Scale = 1:27.5

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 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 (lb/size) 1=178/7-11-6, 3=178/7-11-6,

4=277/7-11-6

Max Horiz 1=61 (LC 7)

Max Uplift 1=-39 (LC 8), 3=-47 (LC 9)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-110/56, 2-3=-106/42 **BOT CHORD** 1-4=-12/52, 3-4=-12/52

WEBS 2-4=-189/48

NOTES

FORCES

- 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.
- * 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 39 lb uplift at joint 1 and 47 lb uplift at joint 3.
- 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.



September 7,2021

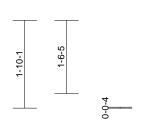


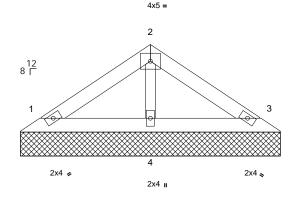
Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	V3	Valley	1	1	Job Reference (optional)	147787275

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Page: 1

		5-5-6
2-8-11	5-0-3	
2-8-11	2-3-8	0-5-3





5-5-6

Scale = 1:24.1

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	0.09	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	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-2 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=115/5-5-6, 3=115/5-5-6,

4=179/5-5-6

Max Horiz 1=-40 (LC 4)

Max Uplift 1=-25 (LC 8), 3=-30 (LC 9) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-71/36, 2-3=-69/27 **BOT CHORD** 1-4=-8/33, 3-4=-8/33 **WEBS**

2-4=-122/31

NOTES

FORCES

- 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.
- * 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 25 lb uplift at joint 1 and 30 lb uplift at joint 3.
- 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.



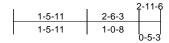
September 7,2021

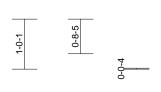


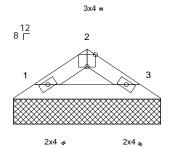
Job	Truss	Truss Type	Qty	Ply	Lot 1 OS	
Lot 1 OS	V4	Valley	1	1	Job Reference (optional)	147787276

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Page: 1







2-11-6

Scale = 1:23.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.02	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-2 oc purlins.

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

bracing.

1=92/2-11-6, 3=92/2-11-6 REACTIONS (lb/size)

Max Horiz 1=-18 (LC 4)

Max Uplift 1=-11 (LC 8), 3=-11 (LC 9) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-80/25, 2-3=-80/25

BOT CHORD 1-3=-10/54

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.
- 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 11 lb uplift at joint 1 and 11 lb uplift at joint 3.

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



September 7,2021



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

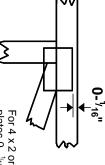


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



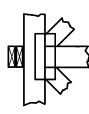
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

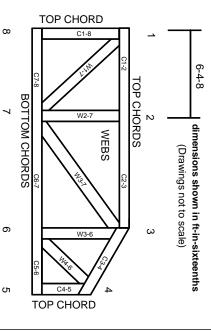
Industry Standards:

National Design Specification for Metal

DSB-89: ANSI/TPI1:

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

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- 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 all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.

Ģ

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

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or 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 project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.