

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 22030097

DRB GROUP - 6 FaNC

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I50816165 thru I50816186

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



March 16,2022

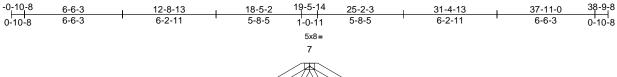
Sevier, Scott

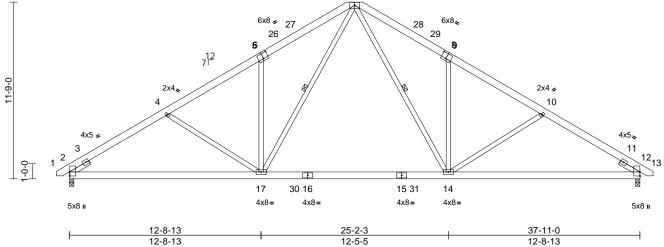
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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	DRB GROUP - 6 FaNC	
22030097	A01	Common	4	1	I5081616 Job Reference (optional)	35

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:00 ID:bD4xs?Y6N8EeiWi69pl1?iyGMN6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:76.6

Plate Offsets (X, Y): [6:0-4-0,0-4-4], [8:0-4-0,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.31	14-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.47	14-17	>960	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.07	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 282 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 17-7,14-7:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD

TOP CHORD

Structural wood sheathing directly applied or

4-1-11 oc purlins.

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

bracing. WEBS

1 Row at midpt 7-17, 7-14 REACTIONS 2=1557/0-3-8, 12=1557/0-3-8 (lb/size)

Max Horiz 2=-265 (LC 12)

Max Uplift 2=-151 (LC 14), 12=-151 (LC 15) Max Grav 2=1783 (LC 24), 12=1783 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-4=-2588/259, 4-5=-2321/228, 5-7=-2355/367. 7-9=-2354/367.

9-10=-2321/228. 10-12=-2589/259

12-13=0/20

BOT CHORD 2-17=-297/2334, 14-17=-16/1512,

12-14=-130/2136

5-17=-477/249, 7-17=-236/1197,

4-17=-296/201, 7-14=-236/1197,

9-14=-477/248, 10-14=-297/202

NOTES

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 3-1-7, Interior (1) 3-1-7 to 15-2-0, Exterior(2R) 15-2-0 to 22-9-0, Interior (1) 22-9-0 to 34-9-9, Exterior(2E) 34-9-9 to 38-7-1 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 16,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

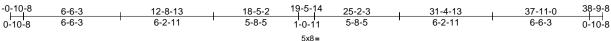


Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	A02	Common	6	1	Job Reference (optional)	50816166

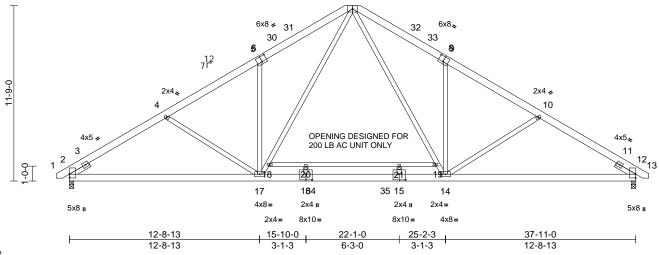
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> 38-9-8 37-11-0

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Scale = 1:77.2

Plate Offsets (X, Y): [6:0-4-0,0-4-4], [8:0-4-0,0-4-4], [15:0-5-0,0-4-8], [16:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.11	15-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.46	15-16	>997	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 300 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 17-7,14-7,18-19:2x4

SP No.2

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

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-0 oc purlins.

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

bracing.

REACTIONS 2=1658/0-3-8, 12=1655/0-3-8 (lb/size)

Max Horiz 2=-265 (LC 12)

Max Uplift 2=-50 (LC 14), 12=-53 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/20, 2-4=-2492/66, 4-5=-2203/22,

5-7=-2226/160, 7-9=-2218/166,

9-10=-2197/29, 10-12=-2486/73, 12-13=0/20

BOT CHORD 2-17=-188/2063. 14-17=0/1359.

12-14=-35/2046

WEBS 5-17=-479/247, 17-18=-139/1072,

7-18=-116/1089, 4-17=-279/230, 7-19=-128/1078, 14-19=-149/1062, 9-14=-479/246, 10-14=-281/230,

18-20=-10/21, 20-21=-10/21, 19-21=-10/21,

16-20=0/31, 15-21=0/30

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 3-1-7, Interior (1) 3-1-7 to 15-2-0, Exterior(2R) 15-2-0 to 22-9-0, Interior (1) 22-9-0 to 34-9-9, Exterior(2E) 34-9-9 to 38-7-1 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 200.0lb AC unit load placed on the bottom chord, 18-8-0 from left end, supported at two points, 5-0-0 apart.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- 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



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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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 Qtv Ply DRB GROUP - 6 FaNC 150816167 22030097 A03 Common Structural Gable Job Reference (optional) Page: 1

Carter Components (Sanford), Sanford, NC - 27332,

-0-10-8

0-10-8

6-6-3

6-6-3

12-8-13

6-2-11

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38-9-8 18-5-2 25-2-3 31-4-13 37-11-0 6-2-11 5-8-5 5-8-5 6-6-3 1-0-11 0-10-8

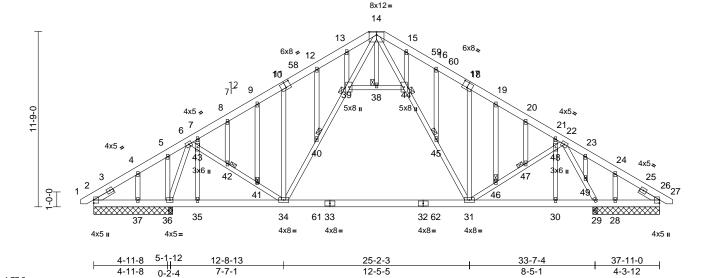


Plate Offsets (X, Y): [11:0-4-0,0-4-4], [14:0-6-0,0-2-4], [17:0-4-0,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.26	31-34	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.40	31-34	>863	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.02	29	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 376 lb	FT = 20%

LUMBER TOP CHORD

Scale = 1:77.2

2x6 SP No 2

BOT CHORD 2x6 SP No.2 **WEBS** 2x4 SP No.3 *Except* 34-14,31-14:2x4 SP

No.2

OTHERS 2x4 SP No.3

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

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 38. 39, 40, 41, 42, 44,

45, 46, 47

REACTIONS (lb/size)

2=113/5-3-8, 26=76/4-5-8, 28=145/4-5-8, 29=1302/0-3-8, 36=1393/5-3-8, 37=85/5-3-8, 50=113/5-3-8, 54=76/4-5-8

Max Horiz 2=266 (LC 13), 50=266 (LC 13) 2=-63 (LC 10), 28=-88 (LC 15),

29=-99 (LC 15), 36=-150 (LC 14), 37=-88 (LC 14), 50=-63 (LC 10)

Max Grav 2=142 (LC 25), 26=83 (LC 35), 28=182 (LC 29), 29=1539 (LC 25),

36=1670 (LC 24), 37=143 (LC 24), 50=142 (LC 25), 54=83 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-138/261, 4-5=-94/238

5-6=-89/203, 6-7=-1166/103, 7-8=-1196/123, 8-9=-1149/140, 9-10=-1087/155, 10-12=-1187/239, 12-13=-1141/256, 13-14=-1141/311. 14-15=-1206/323. 15-16=-1255/290, 16-18=-1291/271, 18-19=-1160/160, 19-20=-1216/146

20-21=-1258/129 21-22=-1258/109 22-23=0/207, 23-24=0/118, 24-26=-53/207,

26-27=0/20

2-37=-189/149, 36-37=-189/149, 35-36=-94/383, 34-35=-94/383, 31-34=0/858,

30-31=0/510, 29-30=0/510, 28-29=-134/87,

26-28=-134/87

WEBS 10-34=-438/209, 34-40=-126/450,

39-40=-137/486, 14-39=-204/586, 6-43=0/812, 42-43=0/833, 41-42=0/822,

34-41=0/844, 14-44=-215/652, 44-45=-163/633, 31-45=-150/590,

18-31=-410/205, 31-46=0/638, 46-47=0/626, 47-48=0/634, 22-48=0/612, 14-38=-12/27, 13-39=-170/89. 12-40=-41/13. 9-41=0/42. 8-42=-27/17, 7-43=-108/22, 35-43=-161/48,

5-36=-145/1, 4-37=-144/112, 15-44=-89/66, 16-45=-49/15, 19-46=0/30, 20-47=-27/17, 21-48=-34/27, 30-48=-89/41, 23-49=-15/114 24-28=-281/110, 6-36=-1235/143

22-49=-1426/127, 29-49=-1324/113 38-39=-94/46, 38-44=-92/45

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-11-8, Interior (1) 2-11-8 to 14-11-8. Exterior(2R) 14-11-8 to 22-6-11. Interior (1) 22-6-11 to 34-9-9, Exterior(2E) 34-9-9 to 38-7-1 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.



Continued on page 2

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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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	A03	Common Structural Gable	1	1	Job Reference (optional)	150816167

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- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Job Truss Truss Type Qtv Ply DRB GROUP - 6 FaNC 150816168 22030097 A04 Common Supported Gable Job Reference (optional) Carter Components (Sanford), Sanford, NC - 27332, Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:05 Page: 1 ID:husayWcpnt6IYOYkURLMI2yGMJ9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10-8 37-11-0 38-9-8 18-5-2 0-10-8 0-10-8 18-5-2 18-5-2 5x8= 12 11 13 8x10 " 8x10 10 14 53 54 9 15 712 16 7 17 11-9-0 6 18 5 19 20 4x5 = 4x5 3 21 ²²23 0-0-P 44 42 38 36 35 32 31 27 25 24 4x8= 4x8= 4x5 II 4x5 ı 37-11-0 Scale = 1:72 Plate Offsets (X, Y): [9:0-5-0,0-4-8], [15:0-5-0,0-4-8], [22:Edge,0-6-12] 1-11-4 CSI DEFL in I/defl L/d **PLATES** GRIP Loading (psf) Spacing (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) 999 MT20 244/190 n/a n/a Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.03 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr WB 22 YES 0.15 Horz(CT) 0.01 n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MSH Weight: 358 lb BCDL 10.0 FT = 20%LUMBER Max Grav 2=233 (LC 14), 22=172 (LC 15), **WEBS** 12-34=-161/47, 11-35=-193/47, 24=154 (LC 25), 25=165 (LC 25), 10-37=-189/83, 9-38=-125/73, 8-39=-115/67, TOP CHORD 2x6 SP No.2 26=161 (LC 25), 27=161 (LC 25), 7-40=-123/73, 6-41=-123/72, 5-42=-122/71, 2x6 SP No.2 BOT CHORD 28=162 (LC 25), 29=154 (LC 25), 4-43=-128/78, 3-44=-114/129, **OTHERS** 2x4 SP No.3 *Except* 34-12:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 0-11-6, Right 2x4 SP 30=164 (LC 22), 31=228 (LC 22), 13-33=-193/39, 14-31=-189/86, 15-30=-125/74, 16-29=-115/66, 33=232 (LC 22), 34=191 (LC 27), No.3 -- 0-11-6 35=232 (LC 21), 37=228 (LC 21), 17-28=-123/73, 18-27=-123/72, BRACING 38=164 (LC 21), 39=154 (LC 24), 19-26=-122/71, 20-25=-127/77, TOP CHORD Structural wood sheathing directly applied or 40=162 (LC 24), 41=161 (LC 24), 21-24=-92/109 6-0-0 oc purlins. 42=161 (LC 24), 43=165 (LC 24), NOTES **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc 44=186 (LC 24), 45=233 (LC 14), 1) Unbalanced roof live loads have been considered for bracing. 49=172 (LC 15) this design. WEBS 1 Row at midpt 12-34, 11-35, 10-37, **FORCES** (lb) - Maximum Compression/Maximum 13-33, 14-31 Tension REACTIONS (lb/size) 2=91/37-11-0, 22=91/37-11-0, TOP CHORD 1-2=0/20, 2-3=-182/142, 3-4=-222/186, 24=109/37-11-0, 25=158/37-11-0, 4-5=-187/167, 5-6=-163/150, 6-7=-149/139, 26=155/37-11-0, 27=155/37-11-0, 7-8=-136/140, 8-10=-122/193 28=156/37-11-0, 29=148/37-11-0, 10-11=-135/225, 11-12=-149/245, 30=154/37-11-0, 31=162/37-11-0, 12-13=-149/245, 13-14=-135/216, 33=155/37-11-0, 34=131/37-11-0, 14-16=-105/165, 16-17=-62/78, 35=155/37-11-0. 37=162/37-11-0. 17-18=-72/49, 18-19=-82/55, 19-20=-108/72, 38=154/37-11-0. 39=148/37-11-0. 20-21=-158/91, 21-22=-138/77, 22-23=0/20 40=156/37-11-0. 41=155/37-11-0. **BOT CHORD** 2-44=-88/183, 43-44=-88/183, 42=155/37-11-0, 43=158/37-11-0, 42-43=-88/183, 41-42=-88/183, 44=109/37-11-0, 45=91/37-11-0, 40-41=-88/183, 39-40=-88/183, 49=91/37-11-0 38-39=-88/183, 37-38=-88/184, Max Horiz 2=-260 (LC 12), 45=-260 (LC 12) 35-37=-88/184, 34-35=-88/184, Max Uplift 2=-149 (LC 12), 22=-58 (LC 13), 33-34=-88/184, 31-33=-88/184, 24=-132 (LC 15), 25=-50 (LC 15), 30-31=-88/184, 29-30=-86/182, 26=-49 (LC 15), 27=-49 (LC 15), 28-29=-86/182, 27-28=-86/182, 28=-49 (LC 15), 29=-43 (LC 15), 26-27=-86/182, 25-26=-86/182, 30=-50 (LC 15), 31=-63 (LC 15), 24-25=-86/182, 22-24=-86/182

Continued on page 2

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

33=-15 (LC 15), 35=-24 (LC 14), 37=-60 (LC 14), 38=-50 (LC 14), 39=-43 (LC 14), 40=-49 (LC 14), 41=-49 (LC 14), 42=-49 (LC 14), 43=-50 (LC 14), 44=-161 (LC 14), 45=-149 (LC 12), 49=-58 (LC 13)

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



March 16,2022

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	A04	Common Supported Gable	1	1	I508 Job Reference (optional)	816168

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Wed Mar 16.11:02:05 ID:husayWcpnt6IYOYkURLMI2yGMJ9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-1 to 2-11-8, Exterior(2N) 2-11-8 to 14-11-8, Corner(3R) 14-11-8 to 22-11-8,

Exterior(2N) 22-11-8 to 34-9-9, Corner(3E) 34-9-9 to 38-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

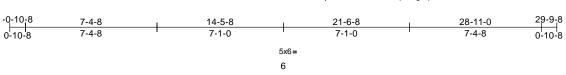
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 35, 37, 38, 39, 40, 41, 42, 43, 44, 33, 31, 30, 29, 28, 27, 26, 25, 24, and 22. This connection is for uplift only and does not consider lateral forces.
- 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.

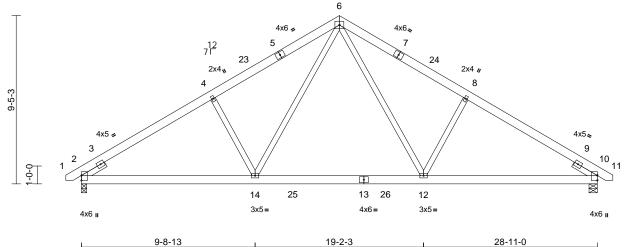
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	B01	Common	1	1	Job Reference (optional)	

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:06 ID:tZ4bPv91BhnMSJUNdOev4YyGMIS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-8-13





Scale = 1:64.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.13	12-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.20	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 199 lb	FT = 20%

9-5-5

LUMBER

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

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

- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-1-3 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=1197/0-3-8, 10=1197/0-5-8

Max Horiz 2=-207 (LC 12)

Max Uplift 2=-117 (LC 14), 10=-117 (LC 15)

9-8-13

Max Grav 2=1361 (LC 24), 10=1361 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/20, 2-4=-1868/190, 4-6=-1727/242,

6-8=-1727/242, 8-10=-1868/190, 10-11=0/20

BOT CHORD 2-14=-205/1674. 12-14=-14/1126.

10-12=-83/1520

WFBS 6-12=-126/799, 8-12=-427/249,

6-14=-126/798, 4-14=-427/249

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-8-11, Interior (1) 2-8-11 to 11-0-13, Exterior(2R) 11-0-13 to 17-10-3, Interior (1) 17-10-3 to 26-2-5, Exterior(2E) 26-2-5 to 29-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

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, rerection 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	DRB GROUP - 6 FaNC	
22030097	B02	Roof Special	2	1	Job Reference (optional)	150816170

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:06 ID:tZ4bPv91BhnMSJUNdOev4YyGMIS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

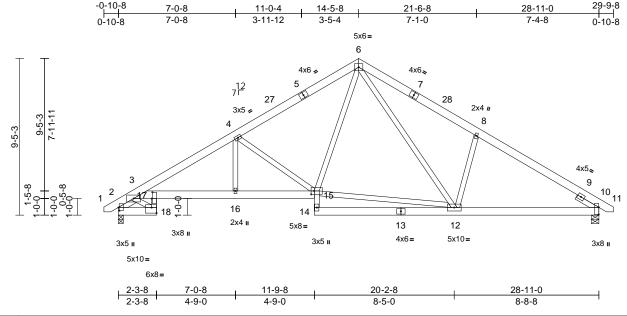


Plate Offsets (X, Y): [2:0-2-4,0-0-8], [10:0-5-2,0-0-2], [15:0-2-2,0-2-8], [17:0-4-8,0-0-8], [18:Edge,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.09	16-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.18	16-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 221 lb	FT = 20%

LUMBER

Scale = 1:69.3

TOP CHORD 2x6 SP No 2

2x6 SP No.2 *Except* 18-17,15-14:2x4 SP **BOT CHORD**

No.3

WEBS 2x4 SP No.3 *Except* 12-6:2x4 SP No.2

SLIDER Left 2x4 SP No.3 -- 1-0-15, Right 2x4 SP

No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-10 oc purlins.

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

bracing.

REACTIONS 2=1197/0-3-8, 10=1197/0-5-8 (lb/size)

Max Horiz 2=-207 (LC 12)

Max Uplift 2=-117 (LC 14), 10=-117 (LC 15) Max Grav 2=1207 (LC 21), 10=1207 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

BOT CHORD

1-2=0/20, 2-3=-848/84, 3-4=-2195/240,

4-6=-1544/220, 6-8=-1629/280,

8-10=-1708/180, 10-11=0/20

2-18=-186/877, 17-18=-204/1023

3-17=-234/1861, 16-17=-247/1893,

15-16=-247/1893, 14-15=0/153,

12-14=0/154, 10-12=-75/1396 4-15=-868/254, 12-15=-28/862,

6-15=-84/730, 6-12=-191/559,

8-12=-442/259, 3-18=-1126/241, 4-16=0/379

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-8-11, Interior (1) 2-8-11 to 11-0-13, Exterior(2R) 11-0-13 to 17-10-3, Interior (1) 17-10-3 to 26-2-5, Exterior(2E) 26-2-5 to 29-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- 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



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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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	DRB GROUP - 6 FaNC	
22030097	B03	Roof Special Structural Gable	1	1	Job Reference (optional)	I50816171

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:07 ID:NGVW_pqHvvls4QS2d0dz4MyGMF_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

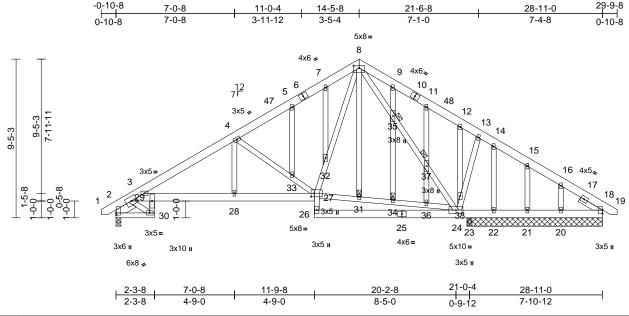


Plate Offsets (X, Y): [2:0-1-8,0-0-2], [8:0-4-0,0-1-12], [27:0-2-3,0-2-8]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.07	28-29	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.13	28-29	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.08	23	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 283 lb	FT = 20%

LUMBER

Scale = 1:68.5

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

2x6 SP No.2 *Except* 2-30:2x4 SP No.2,

30-29,27-26:2x4 SP No.3

WEBS 2x4 SP No.3 *Except* 24-8:2x4 SP No.2

OTHERS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 -- 1-2-8, Right 2x4 SP No.3

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-6 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 31,

34, 35, 37

REACTIONS (lb/size) 2=810/0-3-8, 18=29/8-0-8,

20=216/8-0-8, 21=150/8-0-8, 22=-85/8-0-8, 23=1200/0-3-8,

43=29/8-0-8 Max Horiz 2=-201 (LC 12)

Max Uplift 2=-77 (LC 14), 18=-56 (LC 34),

20=-92 (LC 15), 21=-39 (LC 15),

22=-106 (LC 21), 23=-150 (LC 14), 43=-56 (LC 34)

Max Grav 2=859 (LC 21), 18=100 (LC 35), 20=219 (LC 25), 21=154 (LC 25),

22=40 (LC 14), 23=1200 (LC 1),

43=100 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/20, 2-3=-576/57, 3-4=-1403/145,

4-5=-820/105, 5-7=-739/129, 7-8=-695/163,

8-9=-99/206, 9-11=-110/159, 11-12=-143/129, 12-13=-48/177, 13-14=-89/58,

14-15=-60/225, 15-16=-85/167,

16-18=-120/183, 18-19=0/20

BOT CHORD

2-30=-158/608, 29-30=-185/758,

3-29=-156/1203, 28-29=-158/1190, 27-28=-158/1190, 26-27=0/155, 24-26=0/146,

23-24=-138/117, 22-23=-138/117,

21-22=-138/117, 20-21=-138/117,

18-20=-138/117

WFBS 4-33=-710/208, 27-33=-759/227,

27-31=-8/277, 31-34=-7/279, 34-36=-8/279,

24-36=-10/285, 27-32=-78/622,

8-32=-125/702, 8-35=-847/141 35-37=-818/136, 24-37=-852/142

24-38=-89/161, 13-38=0/361, 4-28=0/334

3-30=-863/225, 8-31=-16/77, 7-32=-83/49,

5-33=-91/32, 9-35=-32/31, 34-35=-47/16,

11-37=-32/38, 36-37=-8/37, 12-38=-474/103,

14-22=-416/9, 15-21=-46/74, 16-20=-165/93

NOTES

Unbalanced roof live loads have been considered for 1)

this design

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-8-11, Interior (1) 2-8-11 to 11-0-13, Exterior(2R) 11-0-13 to 17-10-3, Interior (1) 17-10-3 to 26-2-5, Exterior(2E) 26-2-5 to 29-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and

forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable,

or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10

- 5) Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- 11) N/A

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.



Continued on page 2

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/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	DRB GROUP - 6 FaNC	
2203	30097	B03	Roof Special Structural Gable	1	1	Job Reference (optional)	50816171

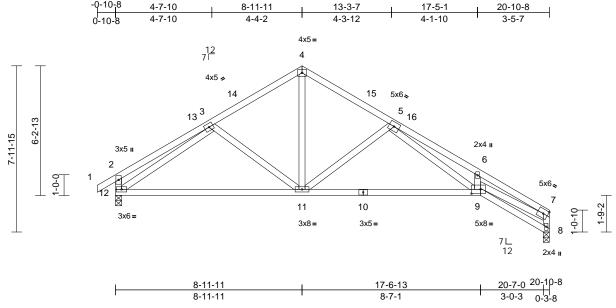
Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:07 $ID: NGVW_pqHvvls4QS2d0dz4MyGMF_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f$ Page: 2

LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	C01	Roof Special	1	1	Job Reference (optional)	I50816172

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:08 ID:EvevzESfZUuPvgppuvhwMjyGMOW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:55.4

Plate Offsets	(X,	Y):	[9:0-5-4,0	0-2-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.17	9-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.40	9-11	>612	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.17	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 117 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 9-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

8=822/0-3-8, 12=886/0-3-8

Max Horiz 12=182 (LC 13)

Max Uplift 8=-87 (LC 15), 12=-83 (LC 14)

Max Grav 8=873 (LC 22), 12=923 (LC 21) **FORCES**

Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/31, 2-3=-285/67, 3-4=-945/134,

4-5=-1005/134, 5-6=-2893/353,

6-7=-2938/241, 7-8=-901/111, 2-12=-303/96 11-12=-76/913, 9-11=-39/1295, 8-9=-35/157

BOT CHORD **WEBS**

3-11=-250/164, 4-11=-36/624, 5-11=-671/199,

5-9=-202/1527, 6-9=-156/142, 7-9=-153/2439, 3-12=-940/94

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-11-11, Exterior(2R) 5-11-11 to 11-11-11, Interior (1) 11-11-11 to 17-8-12, Exterior(2E) 17-8-12 to 20-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 12. This connection is for uplift only and does not consider lateral forces.
- 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



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

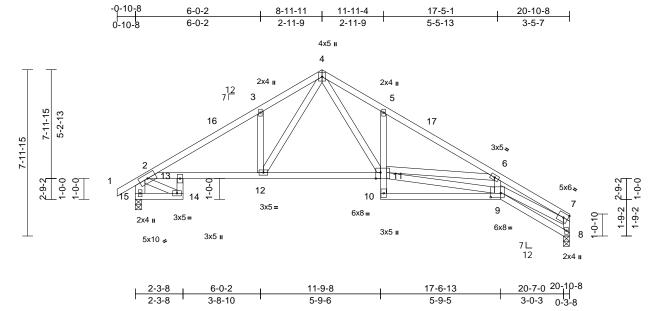
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	DRB GROUP - 6 FaNC	
22030097	C02	Roof Special	3	1	Job Reference (optional)	150816173

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Wed Mar 16.11:02:09 ID:EvevzESfZUuPvgppuvhwMjyGMOW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:55.4 Plate Offsets (X, Y): [9:0-5-12,0-2-4], [11:0-2-12,Edge]

		,, [
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.13	9-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.28	9-10	>888	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.24	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 127 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 14-13,5-10:2x4 SP

No.3

WEBS 2x4 SP No.3 *Except* 9-7:2x4 SP No.2,

15-2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (lb/size) 8=818/0-3-8, 15=888/0-3-8

Max Horiz 15=185 (LC 13)

Max Uplift 8=-87 (LC 15), 15=-80 (LC 14)

Max Grav 8=870 (LC 22), 15=925 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=0/41, 2-3=-1465/109, 3-4=-1483/207,

4-5=-1768/222. 5-6=-1729/136.

6-7=-3008/290, 7-8=-873/108, 2-15=-959/134

BOT CHORD 14-15=-136/352, 13-14=-54/146,

2-13=-6/1055, 12-13=-34/1195, 11-12=0/857,

10-11=0/129, 5-11=-446/172, 9-10=0/164,

8-9=-24/128

4-11=-177/1136, 9-11=-237/2364,

6-11=-1047/249, 6-9=0/420, 7-9=-216/2546,

2-14=-224/124, 4-12=-152/767,

3-12=-444/182

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-11-11, Exterior(2R) 5-11-11 to 12-0-2, Interior (1) 12-0-2 to 17-8-12, Exterior(2E) 17-8-12 to 20-8-12 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 15. This connection is for uplift only and does not consider lateral forces.
- 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



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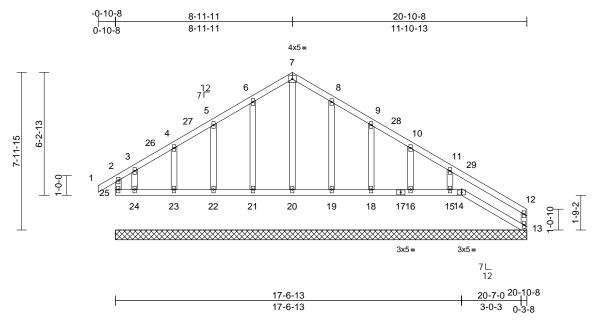
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	C03	Roof Special Supported Gable	1	1	Job Reference (optional)	150816174

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Page: 1



Scale	 1.58	5

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 113 lb	FT = 20%

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (lb/size)

13=126/20-10-8, 14=70/20-10-8, 15=218/20-10-8, 16=121/20-10-8, 18=162/20-10-8, 19=159/20-10-8, 20=111/20-10-8, 21=161/20-10-8,

22=152/20-10-8, 23=165/20-10-8, 24=52/20-10-8, 25=159/20-10-8

Max Horiz 25=176 (LC 13)

Max Uplift 13=-21 (LC 15), 15=-119 (LC 15), 16=-20 (LC 15), 18=-58 (LC 15), 19=-44 (LC 15), 20=-17 (LC 13), 21=-48 (LC 14), 22=-51 (LC 14), 23=-47 (LC 14), 24=-144 (LC 11), 25=-193 (LC 10)

Max Grav 13=131 (LC 25), 14=110 (LC 7), 15=229 (LC 25), 16=126 (LC 22), 18=228 (LC 22), 19=242 (LC 22), 20=205 (LC 15), 21=245 (LC 21), 22=217 (LC 21), 23=170 (LC 21),

24=196 (LC 12), 25=270 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-25=-199/136, 1-2=0/30, 2-3=-198/177, 3-4=-151/146, 4-5=-142/177, 5-6=-145/228, 6-7=-171/274, 7-8=-171/274, 8-9=-146/228, 9-10=-115/173, 10-11=-105/141, 11-12=-86/50, 12-13=-117/68

BOT CHORD 24-25=-25/49, 23-24=-25/49, 22-23=-25/49, 21-22=-25/49. 20-21=-25/49. 19-20=-25/49. 18-19=-25/49, 16-18=-25/49, 15-16=-25/49,

14-15=-25/49, 13-14=-37/71 **WEBS** 7-20=-216/85, 6-21=-206/72, 5-22=-179/77, 4-23=-128/82, 3-24=-106/93, 8-19=-203/68,

9-18=-190/86, 10-16=-85/44, 11-15=-226/157

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-11-11, Corner(3R) 5-11-11 to 11-11-11, Exterior(2N) 11-11-11 to 17-8-12, Corner(3E) 17-8-12 to 20-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.

- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) N/A
- 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 25, 14, 20, 21, 22, 23, 24, 19, 18, 16, 15,
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 16,2022

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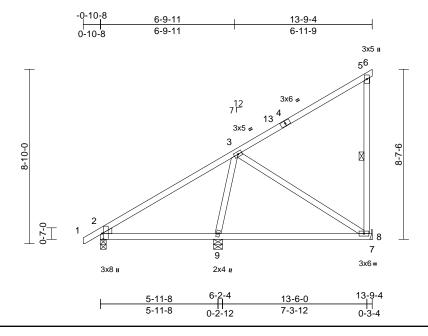
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss Truss Type Qty Ply DRB GROUP		DRB GROUP - 6 FaNC			
22030097	D01	Monopitch	4	1	Job Reference (optional)	150816175

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:10 ID:duDvsaOamEtiR5Ee7uw_GLyGMD_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.08	9-12	>849	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.16	8-9	>559	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	-0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 76 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

WFBS 1 Row at midpt 5-8

REACTIONS (lb/size) 2=400/0-3-8, 8=411/ Mechanical,

9=341/0-5-8 Max Horiz 2=299 (LC 13)

Max Uplift 2=-78 (LC 14), 8=-155 (LC 14) Max Grav 2=400 (LC 1), 8=526 (LC 21),

9=439 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-357/340, 3-5=-211/117,

5-6=-13/0, 5-8=-296/77

BOT CHORD 2-9=-230/265, 8-9=-217/304, 7-8=0/0

WEBS 3-9=-270/19, 3-8=-311/378

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 10-9-4, Exterior(2E) 10-9-4 to 13-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 8.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



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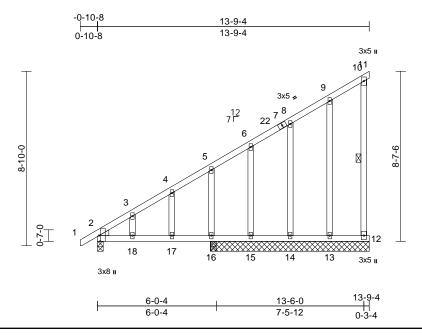
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	D02	Monopitch Structural Gable	1	1	Job Reference (optional)	150816176

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:10 ID:HCyRNhX5xwO?tx9yqQ8oltyGMCo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.4

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

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.07	17-18	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	17-18	>975	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.01	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 94 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 10-12

REACTIONS (lb/size) 2=234/0-3-8, 11=14/8-0-8,

12=58/8-0-8, 13=145/8-0-8, 14=198/8-0-8, 15=-15/8-0-8,

16=476/8-0-8

Max Horiz 2=289 (LC 13)

Max Uplift 2=-39 (LC 10), 11=-84 (LC 14),

12=-162 (LC 13), 13=-54 (LC 14), 14=-64 (LC 14), 15=-15 (LC 1),

16=-177 (LC 14)

Max Grav 2=253 (LC 27), 11=108 (LC 13),

12=155 (LC 10), 13=222 (LC 21),

14=265 (LC 21), 15=61 (LC 11), 16=476 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/24, 2-3=-241/146, 3-4=-229/150,

> 4-5=-212/150, 5-6=-176/102, 6-8=-161/104, 8-9=-153/104. 9-10=-113/108. 10-11=-77/70.

10-12=-138/118

BOT CHORD 2-18=-150/129, 17-18=-118/129,

16-17=-118/129, 15-16=-118/129, 14-15=-118/129, 13-14=-118/129,

12-13=-118/129

WEBS 9-13=-191/60, 8-14=-200/97, 6-15=-56/40,

5-16=-259/214, 4-17=-66/52, 3-18=-49/41

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 13-9-4 zone; cantilever left and right exposed end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- 10) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint



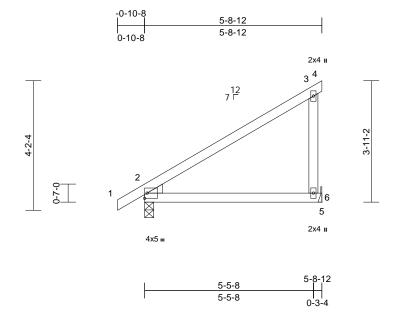
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	F01	Monopitch	3	1	Job Reference (optional)	150816177

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.15	6-9	>445	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.13	6-9	>493	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (lb/size) 2=275/0-3-8, 6=236/ Mechanical

Max Horiz 2=131 (LC 13)

Max Uplift 2=-29 (LC 14), 6=-77 (LC 11)

Max Grav 2=358 (LC 21), 6=350 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/26, 2-3=-127/91, 3-4=-13/0,

TOP CHORD 3-6=-255/129

2-6=-89/93, 5-6=0/0 **BOT CHORD**

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-8-12, Exterior(2E) 2-8-12 to 5-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



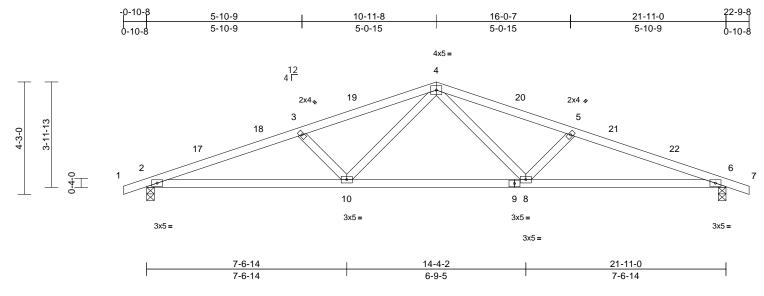
March 16,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	G01	Common	1	1	Job Reference (optional)	0816178

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.10	8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.22	10-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 92 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-12 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=929/0-3-8, 6=929/0-3-8

Max Horiz 2=63 (LC 14)

Max Uplift 2=-136 (LC 10), 6=-136 (LC 11)

Max Grav 2=976 (LC 21), 6=976 (LC 22)

FORCES (lb) - Ma

(lb) - Maximum Compression/Maximum Tension

Tension
TOP CHORD 1-2=0/17

1-2=0/17, 2-3=-2246/431, 3-4=-1938/383,

4-5=-1938/383, 5-6=-2246/431, 6-7=0/17 BOT CHORD 2-10=-333/2108, 8-10=-185/1307,

6-8=-333/2108

WEBS 4-8=-60/714, 5-8=-510/168, 4-10=-60/714,

3-10=-510/168

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-11-8, Exterior(2R) 7-11-8 to 13-11-8, Interior (1) 13-11-8 to 19-9-8, Exterior(2E) 19-9-8 to 22-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

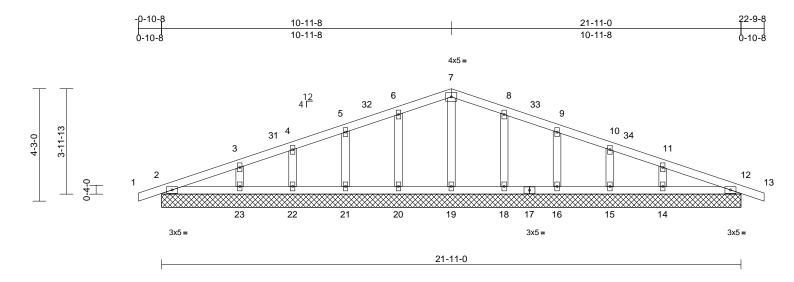




Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	G02	Common Supported Gable	1	1	Job Reference (optional)	150816179

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:12 ID:CvJ0Q?Xtn6?FcOY1rRA_EgzaOY1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.6

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 96 lb	FT = 20%

LOMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2v4 SP No 2

No.2 2x4 SP No.3 **OTHERS** BRACING

LUMBER

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=157/21-11-0. 12=157/21-11-0. 14=221/21-11-0, 15=132/21-11-0, 16=159/21-11-0, 18=160/21-11-0, 19=140/21-11-0, 20=160/21-11-0, 21=159/21-11-0, 22=132/21-11-0, 23=221/21-11-0, 24=157/21-11-0, 28=157/21-11-0

Max Horiz 2=61 (LC 14), 24=61 (LC 14) Max Uplift 2=-37 (LC 10), 12=-45 (LC 11),

14=-45 (LC 15), 15=-30 (LC 11), 16=-33 (LC 15), 18=-35 (LC 15), 20=-35 (LC 14), 21=-33 (LC 14), 22=-30 (LC 10), 23=-45 (LC 14),

24=-37 (LC 10), 28=-45 (LC 11) Max Grav 2=157 (LC 21), 12=157 (LC 22), 14=221 (LC 35), 15=175 (LC 22), 16=217 (LC 22), 18=222 (LC 22), 19=141 (LC 22), 20=222 (LC 21), 21=217 (LC 21), 22=175 (LC 21),

23=221 (LC 34), 24=157 (LC 21), 28=157 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/16, 2-3=-53/41, 3-4=-42/48, 4-5=-34/62, 5-6=-35/83, 6-7=-43/122,

7-8=-43/122, 8-9=-35/83, 9-10=-34/52, 10-11=-29/24, 11-12=-34/21, 12-13=0/16 BOT CHORD

2-23=-12/51, 22-23=-12/51, 21-22=-12/51, 20-21=-12/51, 19-20=-12/51, 18-19=-12/51, 16-18=-12/51, 15-16=-12/51, 14-15=-12/51, 12-14=-12/51

WEBS 7-19=-102/9, 6-20=-184/103, 5-21=-175/72, 4-22=-148/65, 3-23=-150/78, 8-18=-184/103,

9-16=-175/72. 10-15=-148/65. 11-14=-150/78

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-11-8, Corner(3R) 7-11-8 to 13-11-8, Exterior (2N) 13-11-8 to 19-9-8, Corner(3E) 19-9-8 to 22-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

11) * 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

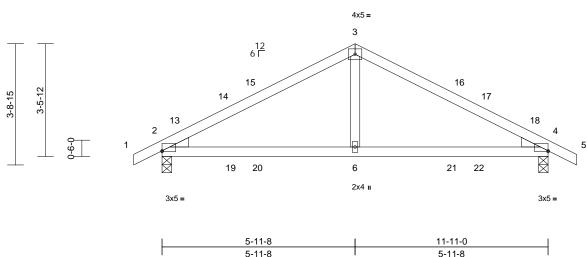


Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	S01	Common	4	1	Job Reference (optional)	150816180

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Page: 1





Scale = 1:35.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.07	6-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.09	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 47 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-14 oc purlins.

BOT CHORD Rigid ceiling directly applied or 7-4-14 oc

bracing.

REACTIONS (lb/size) 2=529/0-3-8, 4=529/0-3-8

Max Horiz 2=54 (LC 14)

Max Uplift 2=-77 (LC 11), 4=-77 (LC 10)

Max Grav 2=625 (LC 21), 4=625 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/23, 2-3=-717/766, 3-4=-717/766,

4-5=0/23

BOT CHORD 2-6=-569/532, 4-6=-569/532

WEBS 3-6=-417/266

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-11-8, Exterior(2R) 2-11-8 to 8-11-8, Interior (1) 8-11-8 to 9-9-8, Exterior(2E) 9-9-8 to 12-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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



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

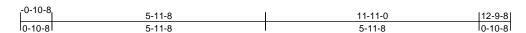
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	DRB GROUP - 6 FaNC	
22030097	S02	Common Supported Gable	1	1	Job Reference (optional)	150816181

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:12 ID:tLf5OevTC3EgDRGakillRlyAbFE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



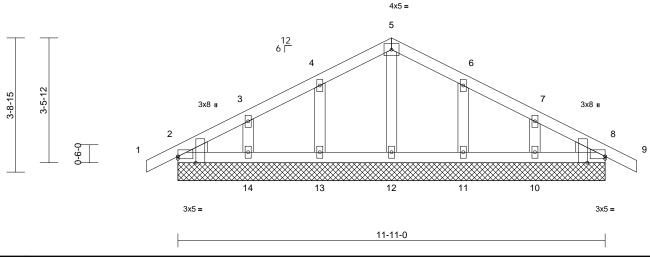


Plate Offsets (X, Y): [2:Edge,0-0-13], [2:0-2-1,Edge], [8:Edge,0-0-13], [8:0-2-1,Edge]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 55 lb	FT = 20%

LUMBER

Scale = 1:32.1

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=134/11-11-0, 8=134/11-11-0, 10=152/11-11-0, 11=162/11-11-0,

12=130/11-11-0, 13=162/11-11-0, 14=152/11-11-0, 15=134/11-11-0,

19=134/11-11-0

Max Horiz 2=52 (LC 14), 15=52 (LC 14) Max Uplift 2=-11 (LC 15), 8=-15 (LC 15),

10=-46 (LC 15), 11=-45 (LC 15), 13=-45 (LC 14), 14=-48 (LC 14), 15=-11 (LC 15), 19=-15 (LC 15)

Max Grav 2=141 (LC 21), 8=141 (LC 22), 10=217 (LC 22), 11=239 (LC 22), 12=135 (LC 21), 13=239 (LC 21),

14=217 (LC 21), 15=141 (LC 21), 19=141 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/23, 2-3=-42/33, 3-4=-56/52, TOP CHORD

4-5=-64/117, 5-6=-64/117, 6-7=-56/52,

7-8=-26/18, 8-9=0/23

BOT CHORD 2-14=-15/70, 13-14=-5/70, 12-13=-5/70,

11-12=-5/70, 10-11=-5/70, 8-10=-15/70

WEBS 5-12=-96/0, 4-13=-203/121, 3-14=-167/105,

6-11=-203/121, 7-10=-167/105

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 1-11-8, Exterior(2N) 1-11-8 to 2-11-8, Corner(3R) 2-11-8 to 8-11-8, Exterior (2N) 8-11-8 to 9-9-8, Corner(3E) 9-9-8 to 12-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) 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.



March 16,2022

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NOTES

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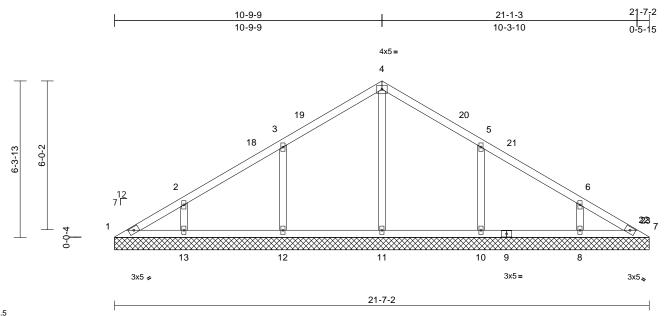
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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	DRB GROUP - 6 FaNC	
22030097	V1	Valley	1	1	Job Reference (optional)	150816182

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 16 11:02:13 ID:oLglpKb8A9yGUrojeeXvpjzaOsd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.5

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 90 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=82/21-7-2, 7=56/21-7-2,

8=285/21-7-2, 10=330/21-7-2, 11=273/21-7-2, 12=330/21-7-2,

13=289/21-7-2 Max Horiz 1=139 (LC 11)

Max Uplift 1=-16 (LC 10), 8=-74 (LC 15),

10=-112 (LC 15), 12=-112 (LC 14),

13=-78 (LC 14)

Max Grav 1=102 (LC 24), 7=61 (LC 23),

8=337 (LC 28), 10=472 (LC 6), 11=387 (LC 23), 12=471 (LC 5),

13=343 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-151/119, 2-3=-110/100, 3-4=-124/134,

4-5=-124/118, 5-6=-69/67, 6-7=-97/69

BOT CHORD 1-13=-45/125, 12-13=-45/82, 11-12=-45/82, 10-11=-45/82, 8-10=-45/82, 7-8=-45/85

4-11=-215/0. 3-12=-380/160. 2-13=-215/118.

5-10=-380/160, 6-8=-213/116

WFBS NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 2-10-0, Interior (1) 2-10-0 to 7-10-0, Exterior(2R) 7-10-0 to 13-10-0, Interior (1) 13-10-0 to 18-1-8, Exterior(2E) 18-1-8 to 21-1-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1.

LOAD CASE(S) Standard



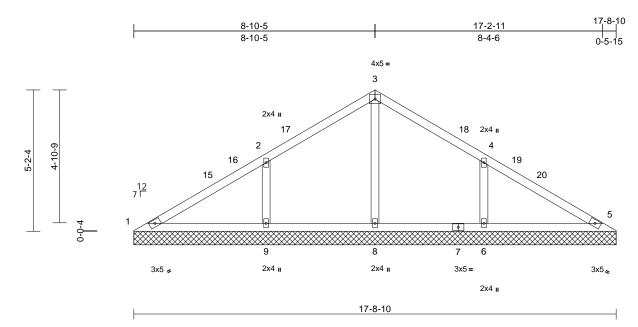
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	V2	Valley	1	1	I5081618 Job Reference (optional)	33

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Page: 1



Scale	 1.4	2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	-0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 69 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

1=39/17-8-10, 5=0/17-8-10, 6=408/17-8-10, 8=521/17-8-10, 9=408/17-8-10, 14=0/17-8-10

Max Horiz 1=117 (LC 11)

Max Uplift 1=-37 (LC 34), 6=-130 (LC 15),

9=-135 (LC 14)

Max Grav 1=95 (LC 33), 5=0 (LC 24), 6=535 (LC 21), 8=542 (LC 21), 9=540 (LC

20), 14=0 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-112/348, 2-3=0/316, 3-4=0/337,

4-5=-105/350

BOT CHORD 1-9=-239/92. 8-9=-239/74. 6-8=-239/74.

5-6=-239/74

WEBS 3-8=-481/1, 2-9=-421/170, 4-6=-419/168

NOTES

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 5-10-12, Exterior(2R) 5-10-12 to 11-10-12, Interior (1) 11-10-12 to 14-9-1, Exterior(2E) 14-9-1 to 17-9-1 zone: cantilever left and right exposed : end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint



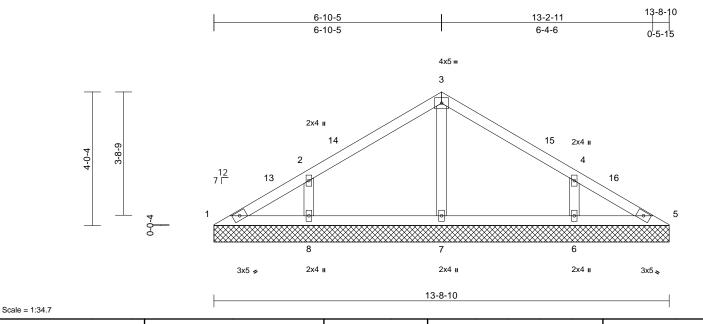
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	V3	Valley	1	1	Job Reference (optional)	I50816184

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BCDL	
LUMBI	ER

Loading

TCLL (roof)

Snow (Pf)

TCDL

BCLL

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

(psf)

20.0

20.0

10.0

10.0

0.0

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=80/13-8-10. 5=80/13-8-10.

6=320/13-8-10, 7=299/13-8-10, 8=320/13-8-10

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1 15

YES

IRC2018/TPI2014

Max Horiz 1=-90 (LC 12)

Max Uplift 1=-11 (LC 15), 6=-101 (LC 15),

8=-103 (LC 14)

Max Grav 1=86 (LC 28), 5=80 (LC 1), 6=455

(LC 21), 7=309 (LC 21), 8=455 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-119/94, 2-3=-127/88, 3-4=-127/81, TOP CHORD 4-5=-100/68

> 1-8=-34/102, 7-8=-34/51, 6-7=-34/51, 5-6=-34/78

WEBS 3-7=-226/24, 2-8=-386/144, 4-6=-386/144

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 2-10-12, Interior (1) 2-10-12 to 3-10-12. Exterior(2R) 3-10-12 to 9-10-12. Interior (1) 9-10-12 to 10-9-1, Exterior(2E) 10-9-1 to 13-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

DEFL

Vert(LL)

Vert(TL)

Horiz(TL)

0.29

0.12

0.08

I/defl

n/a 999

n/a 999

n/a n/a

(loc)

5

n/a

n/a

0.00

L/d

PLATES

Weight: 51 lb

MT20

GRIP

244/190

FT = 20%

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

CSI

TC

BC

WB

Matrix-MSH

- 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 11 lb uplift at joint



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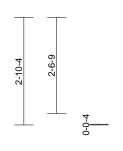


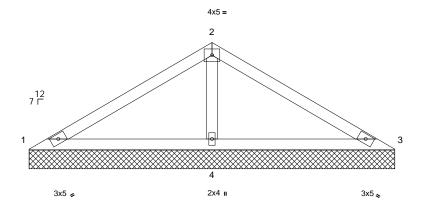
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	V4	Valley	1	1	I50816185 Job Reference (optional)	

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9-8-10

Scale = 1:30.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.40	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 33 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

9-8-10 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=40/9-8-10, 3=40/9-8-10, 4=698/9-8-10

Max Horiz 1=-63 (LC 12)

Max Uplift 1=-38 (LC 21), 3=-38 (LC 20),

4=-68 (LC 14)

Max Grav 1=123 (LC 20), 3=123 (LC 21),

4=742 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-122/388, 2-3=-122/388

BOT CHORD 1-4=-247/135, 3-4=-247/135

2-4=-567/203 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Exterior(2R) 3-0-7 to 6-9-1, Exterior(2E) 6-9-1 to 9-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1 and 38 lb uplift at joint 3.



March 16,2022

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, rerection 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

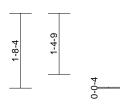


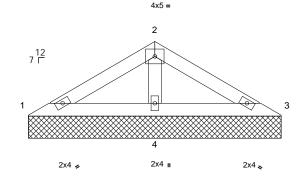
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 6 FaNC	
22030097	V5	Valley	1	1	Job Reference (optional)	150816186

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Wed Mar 16.11:02:15. ID:zXvIN_SYuTaTk3MeIPYpJhzaOWr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







5-8-10

Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-10 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=54/5-8-10, 3=54/5-8-10,

4=349/5-8-10

Max Horiz 1=-36 (LC 10) Max Uplift 1=-7 (LC 14), 3=-13 (LC 15), 4=-29

(LC 14)

Max Grav 1=96 (LC 20), 3=96 (LC 21), 4=352

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-99/146, 2-3=-99/146

BOT CHORD 1-4=-111/89, 3-4=-111/89

WEBS 2-4=-224/112

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 13 lb uplift at joint 3.



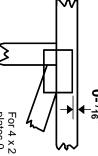


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



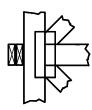
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



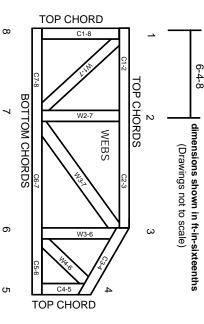
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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