

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 22060076

DRB GROUP - 123 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: I52741039 thru I52741047

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

North Carolina COA: C-0844



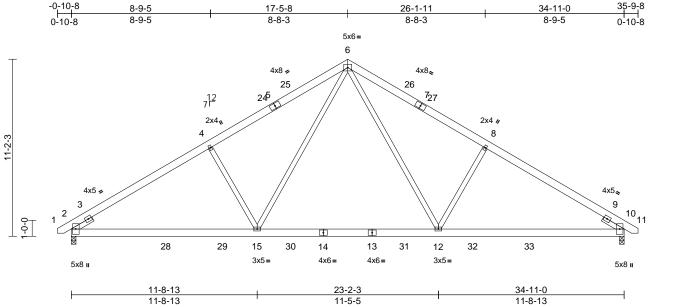
June 24,2022

Gilbert, Eric

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 - 123 FaNC	
22060076	A01	Common	4	1	Job Reference (optional)	152741039

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Fri Jun 24 09:38:41 ID:gjaDKQLY7lcou8lik6PeZ7yHzji-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:72.8

Plate Offsets (X, Y): [2:0-4-2,0-0-14], [10:0-4-2,0-0-14]

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	0.73	Vert(LL)	-0.20	12-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.33	12-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 238 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.2 *Except* 4-15,8-12:2x4 SP No.3 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-6 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=1437/0-3-8, 10=1437/0-3-8

Max Horiz 2=-248 (LC 12)

Max Uplift 2=-139 (LC 14), 10=-139 (LC 15)

Max Grav 2=1696 (LC 24), 10=1696 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2393/227, 4-6=-2211/285,

6-8=-2211/285, 8-10=-2394/227, 10-11=0/20 2-15=-263/2147, 12-15=-18/1423,

10-12=-117/1961

WEBS 6-15=-149/1040, 6-12=-149/1040,

4-15=-511/302, 8-12=-511/302

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) -0-8-1 to 2-9-14, Interior (1) 2-9-14 to 13-11-10. Exterior(2R) 13-11-10 to 20-11-6. Interior (1) 20-11-6 to 32-1-2, Exterior(2E) 32-1-2 to 35-7-1 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

- 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, 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 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



June 24,2022

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 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 - 123 FaNC	
22060076	A02	Common	8	1	Job Reference (optional)	152741040

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Fri Jun 24 09:38:43 ID:gjaDKQLY7lcou8lik6PeZ7yHzji-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

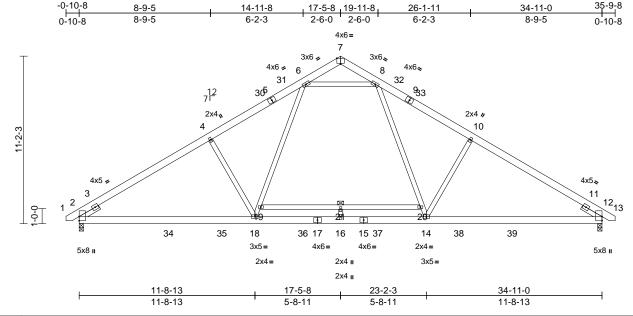


Plate Offsets (X, Y): [7:0-3-0,Edge]

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	0.49	Vert(LL)	-0.20	18-24	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.36	16-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.07	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 255 lb	FT = 20%

LUMBER

Scale = 1:76.9

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

WEBS 2x4 SP No.3 *Except* 19-20:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or

4-4-3 oc purlins.

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

bracing.

WEBS 1 Row at midpt 19-20

REACTIONS 2=1537/0-3-8, 12=1537/0-3-8 (lb/size)

Max Horiz 2=-248 (LC 12)

Max Uplift 2=-39 (LC 14), 12=-39 (LC 15) Max Grav 2=1742 (LC 24), 12=1742 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2462/21, 4-6=-2279/64.

6-7=-169/66, 7-8=-169/66, 8-10=-2279/64

10-12=-2463/21, 12-13=0/20 **BOT CHORD** 2-18=-165/2201, 16-18=0/1718

14-16=0/1718, 12-14=-19/2015

WEBS 18-19=-33/938, 6-19=-19/973, 8-20=-19/974,

14-20=-33/938, 4-18=-447/314,

10-14=-447/314, 19-21=-66/0, 20-21=-66/0,

16-21=0/35, 6-8=-1526/128

NOTES

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 2-9-14, Interior (1) 2-9-14 to 13-11-10. Exterior(2R) 13-11-10 to 20-11-6. Interior (1) 20-11-6 to 32-1-2, Exterior(2E) 32-1-2 to 35-7-1 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, 17-5-8 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, 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 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



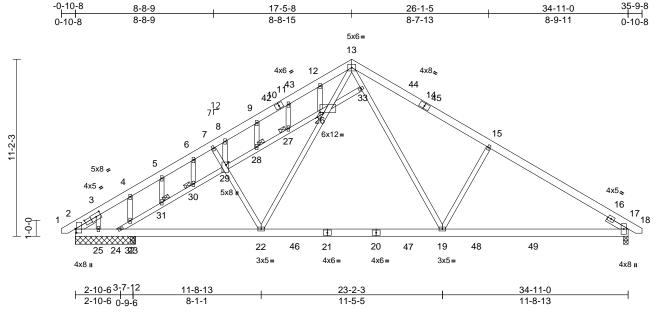
June 24,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 123 FaNC	
22060076	A03	Common	1	1	Job Reference (optional)	152741041

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Fri Jun 24 09:38:44 ID:inUdrcRV35kd_KkiB9UROuyHzfj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:72.8

Plate Offsets (X, Y): [2:0-3-2,0-0-12], [2:0-9-0,0-2-0], [3:0-3-12,0-2-8], [17:0-4-2,0-1-6], [26:0-2-9,0-0-12], [29:0-2-4,0-2-0]

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	0.64	Vert(LL)	-0.23	19-22	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.37	19-22	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.05	17	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 283 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 22-13,19-13:2x4 SP

No.2

OTHERS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-6-5, Right 2x4 SP No.3

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-11 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 26, 27, 28, 30, 31

REACTIONS (lb/size)

2=1060/3-9-8, 17=1395/0-3-8, 23=299/0-3-8, 24=162/3-9-8, 25=-43/3-9-8, 34=1060/3-9-8

Max Horiz 2=248 (LC 13), 34=248 (LC 13)

Max Uplift 2=-6 (LC 15), 17=-141 (LC 15), 24=-80 (LC 15), 25=-209 (LC 26),

34=-6 (LC 15)

Max Grav 2=1240 (LC 5), 17=1640 (LC 25),

23=418 (LC 7), 24=191 (LC 25), 25=65 (LC 12), 34=1240 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-1616/60, 3-4=-1715/154,

4-5=-1725/187, 5-6=-1654/199, 6-7=-1626/202, 7-8=-1632/212, 8-9=-2100/330, 9-11=-2021/339, 11-12=-2014/365, 12-13=-1892/415,

19-22=-10/1314, 17-19=-117/1873

13-15=-2112/285, 15-17=-2293/224, 17-18=0/20

BOT CHORD 2-25=-198/1563, 24-25=-198/1563, 23-24=-173/1903, 22-23=-173/1903,

WEBS

22-26=-95/844, 13-26=-303/895, 13-33=-145/1061, 19-33=-145/1061, 7-29=0/491, 22-29=-431/245, 15-19=-498/301, 12-26=-8/257,

11-27=-97/28, 9-28=-5/50, 8-29=-970/211, 6-30=-39/0, 5-31=0/33, 4-32=-127/43,

3-25=-328/246, 24-32=-511/45, 31-32=-461/34, 30-31=-476/33, 29-30=-456/36, 28-29=-137/263, 27-28=-134/240, 26-27=-149/292,

26-33=-8/49

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 2-9-14, Interior (1) 2-9-14 to 13-11-10, Exterior(2R) 13-11-10 to 20-11-6, Interior (1) 20-11-6 to 32-1-2, Exterior(2E) 32-1-2 to 35-7-1 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.
- 4) 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); 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.

- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



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

Design valid for use only with MI lek® connectors. I his 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 parenters 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 Qtv Ply DRB GROUP - 123 FaNC 152741042 22060076 A04 Common Supported Gable Job Reference (optional)

17-5-8

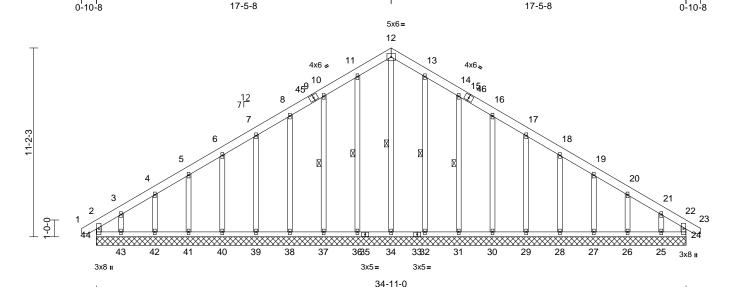
Carter Components (Sanford), Sanford, NC - 27332,

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Page: 1

34-11-0

35-9-8



Scale = 1:68.2

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	0.22	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	0.13	Horz(CT)	0.01	24	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 292 lb	FT = 20%

LOINDLIK	
TOP CHORD	2x6 SP No.2
BOT CHORD	2v4 SP No 2

2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3 *Except* 34-12:2x4 SP No.2

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

WEBS 1 Row at midpt 12-34, 11-36, 10-37, 13-32, 14-31

REACTIONS (lb/size)

24=113/34-11-0, 25=122/34-11-0, 26=166/34-11-0, 27=159/34-11-0, 28=160/34-11-0, 29=160/34-11-0, 30=160/34-11-0, 31=161/34-11-0, 32=162/34-11-0, 34=143/34-11-0, 36=162/34-11-0, 37=161/34-11-0, 38=160/34-11-0, 39=160/34-11-0, 40=160/34-11-0, 41=159/34-11-0, 42=166/34-11-0, 43=122/34-11-0, 44=113/34-11-0

Max Horiz 44=271 (LC 13)

Max Uplift 24=-62 (LC 11), 25=-120 (LC 15), 26=-42 (LC 15), 27=-52 (LC 15), 28=-50 (LC 15), 29=-50 (LC 15), 30=-51 (LC 15), 31=-63 (LC 15), 32=-13 (LC 15), 36=-20 (LC 14), 37=-61 (LC 14), 38=-51 (LC 14),

39=-50 (LC 14), 40=-50 (LC 14), 41=-53 (LC 14), 42=-39 (LC 14), 43=-147 (LC 14), 44=-149 (LC 10) 28=166 (LC 25), 29=166 (LC 25), 30=170 (LC 22), 31=228 (LC 22), 32=242 (LC 22), 34=217 (LC 15),

Max Grav 24=152 (LC 24), 25=176 (LC 25), 26=167 (LC 25), 27=167 (LC 25),

> 36=242 (LC 21), 37=228 (LC 21), 38=170 (LC 21), 39=167 (LC 24), 40=166 (LC 24), 41=168 (LC 24),

> 42=166 (LC 21), 43=214 (LC 24),

44=219 (LC 25)

(lb) - Maximum Compression/Maximum Tension

2-44=-180/123, 1-2=0/25, 2-3=-231/211, 3-4=-174/167, 4-5=-164/158, 5-6=-150/154, 6-7=-136/175, 7-8=-122/203, 8-10=-138/232, 10-11=-169/285, 11-12=-182/311,

12-13=-182/311, 13-14=-169/285, 14-16=-138/232, 16-17=-110/185,

17-18=-84/139, 18-19=-71/99, 19-20=-81/73, 20-21=-89/80, 21-22=-145/108, 22-23=0/25,

22-24=-126/53 **BOT CHORD**

43-44=-99/122, 42-43=-99/122, 41-42=-99/122, 40-41=-99/122,

39-40=-99/122, 38-39=-99/122, 37-38=-99/122, 36-37=-99/122, 34-36=-99/122, 32-34=-99/122,

31-32=-99/122, 30-31=-99/122, 29-30=-99/122, 28-29=-99/122, 27-28=-99/122, 26-27=-99/122, 25-26=-99/122, 24-25=-99/122

12-34=-218/73, 11-36=-202/44, 10-37=-188/85, 8-38=-130/75, 7-39=-127/74, 6-40=-127/74, 5-41=-126/75, 4-42=-126/71,

3-43=-147/127, 13-32=-202/37, 14-31=-188/87, 16-30=-130/75, 17-29=-126/74, 18-28=-127/74, 19-27=-126/75, 20-26=-128/72,

21-25=-124/110

NOTES

WFBS

FORCES

TOP CHORD

- 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) -0-8-1 to 2-9-14, Exterior(2N) 2-9-14 to 13-11-10, Corner(3R) 13-11-10 to 20-11-6, Exterior(2N) 20-11-6 to 32-1-2. Corner(3E) 32-1-2 to 35-7-1 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.



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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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 - 123 FaNC	
22060076	A04	Common Supported Gable	1	1	Job Reference (optional)	152741042

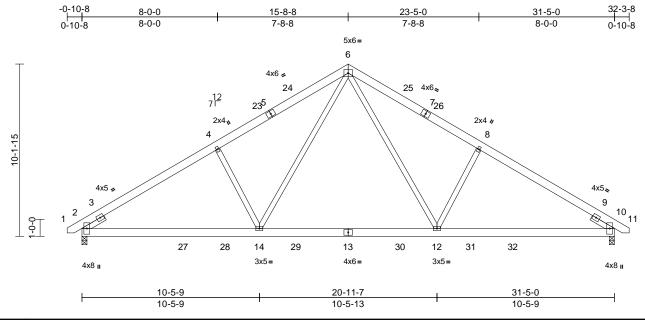
Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Fri Jun 24 09:38:45 ID:xn3SJVlpx40x6KkiicyXRNyHzfJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

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

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 123 FaNC	
22060076	B01	Common	7	1	Job Reference (optional)	152741043

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Scale = 1:68

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

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	0.56	Vert(LL)	-0.16	12-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.26	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 215 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 14-6,12-6:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-7-1 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=1297/0-3-8, 10=1297/0-3-8

Max Horiz 2=224 (LC 13)

Max Uplift 2=-127 (LC 14), 10=-127 (LC 15)

Max Grav 2=1516 (LC 24), 10=1516 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2112/201, 4-6=-1963/260,

6-8=-1964/260, 8-10=-2112/201, 10-11=0/20 2-14=-228/1892, 12-14=-16/1262, **BOT CHORD**

10-12=-96/1724

WEBS 4-14=-462/272, 6-14=-140/925,

6-12=-140/925, 8-12=-462/272

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) -0-8-1 to 2-5-11, Interior (1) 2-5-11 to 12-6-13, Exterior(2R) 12-6-13 to 18-10-3, Interior (1) 18-10-3 to 28-11-5, Exterior(2E) 28-11-5 to 32-1-1 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

- 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, 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 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



June 24,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 123 FaNC	
22060076	B03	Common Supported Gable	1	1	Job Reference (optional)	152741044

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Fri Jun 24 09:38:45 ID:eDo5c2px20DPopr5qTS5W0yHza4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

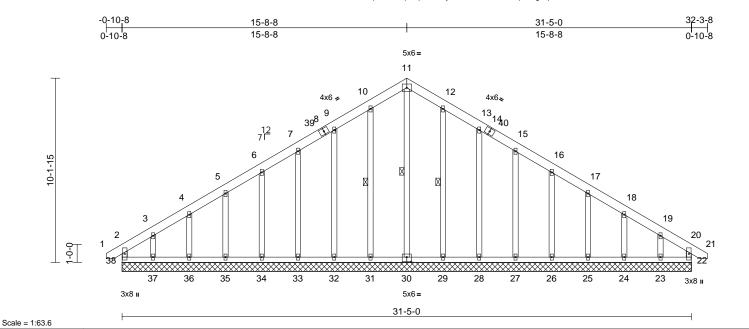


Plate Offsets (X, Y): [30:0-3-0,0-3-0]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 251 lb	FT = 20%

LUMBER TOP CHORD

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

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

11-30, 10-31, 12-29

BOT CHORD

bracing.

WFBS 1 Row at midpt

REACTIONS (lb/size) 22=118/31-5-0, 23=130/31-5-0, 24=159/31-5-0, 25=154/31-5-0, 26=155/31-5-0, 27=155/31-5-0, 28=156/31-5-0, 29=158/31-5-0, 30=136/31-5-0, 31=158/31-5-0, 32=156/31-5-0, 33=155/31-5-0, 34=155/31-5-0, 35=154/31-5-0,

> 38=118/31-5-0 Max Horiz 38=-240 (LC 12)

Max Uplift 22=-47 (LC 11), 23=-104 (LC 15), 24=-40 (LC 15), 25=-51 (LC 15), 26=-48 (LC 15), 27=-49 (LC 15), 28=-60 (LC 15), 29=-17 (LC 15), 31=-22 (LC 14), 32=-59 (LC 14), 33=-49 (LC 14), 34=-48 (LC 14),

36=159/31-5-0, 37=130/31-5-0,

WEBS 35=-51 (LC 14), 36=-37 (LC 14), 37=-123 (LC 14), 38=-114 (LC 10)

Max Grav 22=144 (LC 24), 23=176 (LC 29), 24=160 (LC 25), 25=162 (LC 25), 26=161 (LC 25), 27=164 (LC 22), 28=221 (LC 22), 29=236 (LC 22), 30=193 (LC 27), 31=236 (LC 21), 32=221 (LC 21), 33=164 (LC 21), 34=161 (LC 24), 35=163 (LC 28), 36=159 (LC 21), 37=203 (LC 24), 38=195 (LC 25)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-38=-163/99, 1-2=0/24, 2-3=-193/177, 3-4=-149/137, 4-5=-139/136, 5-6=-125/143, 6-7=-112/170, 7-9=-119/198, 9-10=-148/248, 10-11=-163/276, 11-12=-163/276, 12-13=-148/248, 13-15=-119/198,

15-16=-93/152, 16-17=-67/107 17-18=-73/77, 18-19=-81/68, 19-20=-118/94, 20-21=0/24, 20-22=-120/43

BOT CHORD 37-38=-89/107, 36-37=-89/107, 35-36=-89/107, 34-35=-89/107,

33-34=-89/107, 32-33=-89/107, 31-32=-89/107, 29-31=-89/107, 28-29=-89/107, 27-28=-89/107, 26-27=-89/107, 25-26=-89/107, 24-25=-89/107, 23-24=-89/107,

22-23=-89/107 11-30=-190/60, 10-31=-198/45, 9-32=-182/82, 7-33=-125/72, 6-34=-123/72,

5-35=-123/73, 4-36=-121/67, 3-37=-144/116, 12-29=-198/40, 13-28=-182/83,

15-27=-125/72, 16-26=-123/72, 17-25=-123/72, 18-24=-123/68 19-23=-126/103

NOTES

FORCES

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 Corner(3E) -0-8-1 to 2-5-11, Exterior(2N) 2-5-11 to 12-6-13, Corner(3R) 12-6-13 to 18-10-3, Exterior(2N) 18-10-3 to 28-11-5, Corner(3E) 28-11-5 to 32-1-1 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

Page: 1

- 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.



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



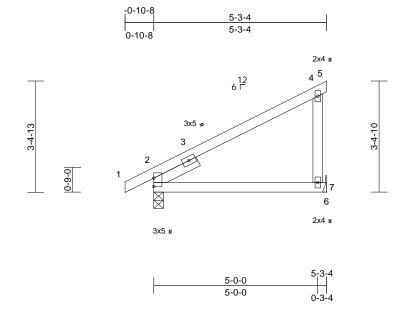
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 123 FaNC	
22060076	B03	Common Supported Gable	1	1	Job Reference (optional)	152741044

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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 requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 123 FaNC	
22060076	D01	Monopitch	2	1	Job Reference (optional)	2741045

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Scale = 1:35.1

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	0.57	Vert(LL)	0.10	7-10	>581	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.09	7-10	>679	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 25 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-4 oc purlins, except end verticals.

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

REACTIONS (lb/size) 2=257/0-3-8, 7=218/ Mechanical

Max Horiz 2=115 (LC 13)

Max Uplift 2=-31 (LC 14), 7=-71 (LC 11) Max Grav 2=345 (LC 21), 7=316 (LC 21)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/23, 2-4=-173/221, 4-5=-12/0,

4-7=-232/137

2-7=-106/181, 6-7=0/0

NOTES

BOT CHORD

- 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; 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 71 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



June 24,2022

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

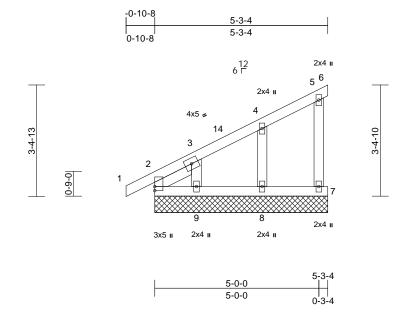
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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 - 123 FaNC	
22060076	D02	Monopitch Supported Gable	1	1	Job Reference (optional)	152741046

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Scale = 1:35.1

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	0.18	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	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.3 -- 1-3-13

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=103/5-3-4, 6=-5/5-3-4,

7=74/5-3-4, 8=163/5-3-4, 9=120/5-3-4, 10=103/5-3-4

Max Horiz 2=110 (LC 13), 10=110 (LC 13)

Max Uplift 2=-6 (LC 10), 6=-9 (LC 21), 7=-20

(LC 14), 8=-41 (LC 14), 9=-61 (LC 14). 10=-6 (LC 10)

Max Grav 2=117 (LC 21), 6=8 (LC 14), 7=111

(LC 21), 8=234 (LC 21), 9=182 (LC

21), 10=117 (LC 21)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-65/49, 3-4=-69/43,

4-5=-57/35, 5-6=-15/8, 5-7=-98/68 **BOT CHORD** 2-9=-49/66, 8-9=-49/66, 7-8=-49/66

WEBS 4-8=-192/172, 3-9=-148/194

NOTES

FORCES

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 5-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint



June 24,2022

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

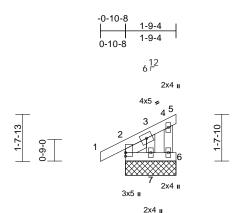
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 - 123 FaNC	
22060076	D03	Monopitch Supported Gable	1	1	Job Reference (optional)	152741047

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Scale = 1:40.3

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.3 -- 0-10-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-9-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=107/1-9-4, 5=10/1-9-4,

6=24/1-9-4, 7=41/1-9-4, 8=107/1-9-4

Max Horiz 2=47 (LC 13), 8=47 (LC 13) Max Uplift 2=-10 (LC 10), 5=-3 (LC 11), 6=-6

(LC 14), 7=-24 (LC 14), 8=-10 (LC

10)

Max Grav 2=151 (LC 21), 5=14 (LC 21), 6=33 (LC 21), 7=51 (LC 21), 8=151 (LC

21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/33, 2-3=-40/34, 3-4=-23/10, 4-5=-8/5, 4-6=-29/39

BOT CHORD 2-7=-20/27, 6-7=-20/27

WEBS 3-7=-36/80

NOTES

Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint



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June 24,2022

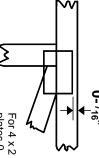


Symbols

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- $\frac{1}{16}$ 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

4 × 4

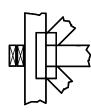
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



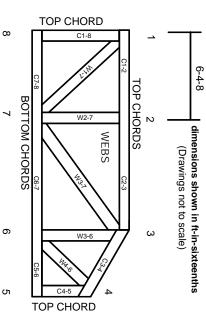
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

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.