

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 22030207

DRB GROUP = 111 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: I51268441 thru I51268458

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

North Carolina COA: C-0844



April 8,2022

Johnson, Andrew

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.

Ply Job Truss Truss Type Qtv DRB GROUP = 111 FaNC 151268441 22030207 A01 Piggyback Base 9 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. Fri Apr 08 11:14:35 ID:U1j8JuB9ln3x4Es7LrpiPrzSozW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

39-1-8

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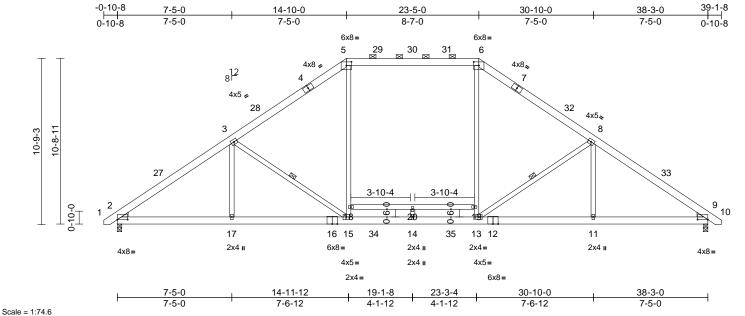


Plate Offsets (X, Y): [2:0-8-0,0-0-1], [5:0-4-0,0-2-13], [6:0-4-0,0-2-13], [9:0-8-0,0-0-1]

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	0.84	Vert(LL)	-0.43	11-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.50	11-13	>911	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.08	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 282 lb	FT = 20%

LUMBER

2x6 SP No 2 TOP CHORD 2x6 SP No 2 **BOT CHORD WEBS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

WFBS

TOP CHORD Structural wood sheathing directly applied or

4-0-3 oc purlins, except

2-0-0 oc purlins (3-3-3 max.): 5-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

1 Row at midpt 3-15. 8-13 REACTIONS (lb/size) 2=1671/0-3-8, 9=1671/0-3-8

Max Horiz 2=244 (LC 13)

Max Uplift 2=-58 (LC 14), 9=-58 (LC 15)

Max Grav 2=1793 (LC 39), 9=1793 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/23, 2-3=-2645/87, 3-5=-2153/81.

5-6=-1629/126, 6-8=-2153/81, 8-9=-2645/87,

9-10=0/23

BOT CHORD 2-17=-226/2104, 15-17=-118/2104,

14-15=0/1609, 13-14=0/1609, 11-13=0/2104,

9-11=-77/2104

WEBS 3-17=-7/243, 3-15=-721/313, 15-18=0/627, 5-18=0/638. 13-19=0/627. 6-19=0/638.

8-13=-721/313, 8-11=-7/243, 18-20=0/20,

19-20=0/20, 14-20=0/21

NOTES

1) 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) -0-8-3 to 3-1-12, Interior (1) 3-1-12 to 9-5-1, Exterior(2R) 9-5-1 to 28-9-15, Interior (1) 28-9-15 to 35-1-4, Exterior(2E) 35-1-4 to 38-11-3 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, 19-1-8 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- 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 9. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

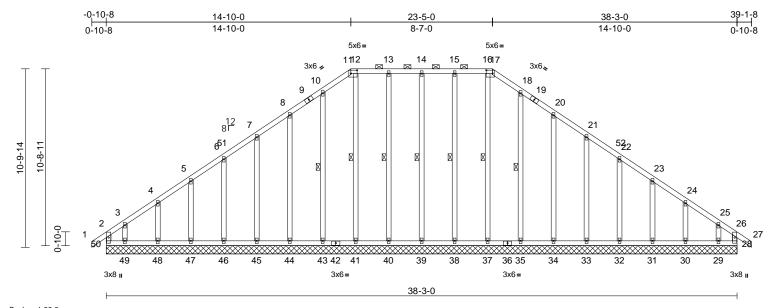
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	A02	Piggyback Base Supported Gable	1	1	Job Reference (optional)	I51268442

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Apr 08 11:14:37 ID:nBD3UkuX5cNj18IGI1rlm3zSoyc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:69.9

Plate Offsets	(X, Y):	[11:0-4-8,0-2-8], [17:0-4-8,0-2-8]
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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	0.17	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	0.22	Horz(CT)	0.01	28	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 308 lb	FT = 20%

L	U	N	ΛE	3	E	F	2

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

2x4 SP No.3 *Except*

39-14,40-13,41-12,38-15,37-16:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 11-17.

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

bracing.

WFBS 14-39, 13-40, 12-41, 1 Row at midpt 10-43, 15-38, 16-37,

18-35

REACTIONS (lb/size)

28=117/38-3-0, 29=91/38-3-0, 30=163/38-3-0, 31=153/38-3-0 32=155/38-3-0 33=155/38-3-0 34=155/38-3-0, 35=155/38-3-0, 37=152/38-3-0, 38=156/38-3-0 39=155/38-3-0. 40=156/38-3-0. 41=152/38-3-0. 43=155/38-3-0.

> 44=155/38-3-0, 45=155/38-3-0, 46=155/38-3-0, 47=153/38-3-0, 48=163/38-3-0, 49=91/38-3-0, 50=117/38-3-0

Max Horiz 50=-259 (LC 12)

Max Uplift 28=-73 (LC 11), 29=-144 (LC 15), 30=-48 (LC 15), 31=-58 (LC 15), 32=-56 (LC 15), 33=-55 (LC 15), 34=-63 (LC 15), 35=-37 (LC 15),

38=-30 (LC 11), 39=-24 (LC 10), 40=-33 (LC 10), 43=-40 (LC 14), 44=-62 (LC 14), 45=-55 (LC 14), 46=-56 (LC 14), 47=-59 (LC 14),

48=-46 (LC 14), 49=-172 (LC 14), 50=-160 (LC 10)

Max Grav 28=169 (LC 53), 29=156 (LC 29), 30=167 (LC 49), 31=163 (LC 29), 32=180 (LC 49), 33=221 (LC 43), 34=219 (LC 43), 35=221 (LC 43),

37=183 (LC 52), 38=226 (LC 38), 39=217 (LC 38), 40=226 (LC 38), 41=196 (LC 52), 43=221 (LC 41),

44=219 (LC 41), 45=221 (LC 41), 46=180 (LC 47), 47=164 (LC 24),

48=164 (LC 39), 49=203 (LC 12), 50=230 (LC 49)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-50=-181/121, 1-2=0/33, 2-3=-230/208, 3-4=-170/167, 4-5=-149/147, 5-6=-132/140, 6-7=-119/157, 7-8=-112/189, 8-10=-139/234, 10-11=-163/275, 11-12=-140/249,

12-13=-140/249, 13-14=-140/249, 14-15=-140/249, 15-16=-140/249, 16-17=-140/249, 17-18=-163/275, 18-20=-139/234, 20-21=-105/177,

21-22=-75/124, 22-23=-63/82, 23-24=-77/70, 24-25=-109/90, 25-26=-177/116, 26-27=0/33,

26-28=-131/56 **BOT CHORD**

49-50=-103/146, 48-49=-103/146, 47-48=-103/146, 46-47=-103/146, 45-46=-103/146, 44-45=-103/146, 43-44=-103/146, 41-43=-103/146,

40-41=-103/146, 39-40=-103/146, 38-39=-103/146, 37-38=-103/146, 35-37=-103/146, 34-35=-103/146,

33-34=-103/146, 32-33=-103/146, 31-32=-103/146, 30-31=-103/146, 29-30=-103/146, 28-29=-103/146

WEBS

14-39=-178/48, 13-40=-187/56, 12-41=-157/31, 10-43=-183/64, 8-44=-181/85, 7-45=-182/78, 6-46=-141/79, 5-47=-124/80, 4-48=-127/77, 3-49=-124/126,

15-38=-187/54, 16-37=-144/11, 18-35=-183/60, 20-34=-181/87. 21-33=-182/78, 22-32=-142/80,

23-31=-124/80, 24-30=-129/78, 25-29=-104/112

NOTES

Unbalanced roof live loads have been considered for this design.



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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 bucking of individual truss web and/or chard 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 = 111 FaNC	
22030207	A02	Piggyback Base Supported Gable	1	1	Job Reference (optional)	151268442

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- 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 3-1-8, Exterior(2N) 3-1-8 to 11-0-2, Corner(3R) 11-0-2 to 18-7-14, Exterior (2N) 18-7-14 to 19-7-2, Corner(3R) 19-7-2 to 27-1-8, Exterior(2N) 27-1-8 to 35-1-8, Corner(3E) 35-1-8 to 39-1-8 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
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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.
- 14) N/A
- 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.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	russ Type Qty Ply		Ply	DRB GROUP = 111 FaNC	
22030207	A03	Piggyback Base	1	1	Job Reference (optional)	I51268443

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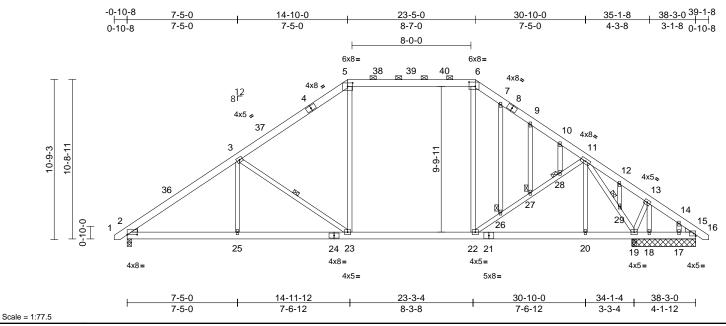


Plate Offsets (X, Y): [2:0-8-0,0-0-1], [5:0-4-0,0-2-13], [6:0-5-0,0-3-8]

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	0.76	Vert(LL)	-0.28	23-25	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.43	23-25	>959	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.07	15	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 309 lb	FT = 20%

LUMBER TOP CHORD

2x6 SP No 2 BOT CHORD 2x6 SP No 2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-3 oc purlins, except

2-0-0 oc purlins (4-3-8 max.): 5-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 3-23, 11-19

JOINTS 1 Brace at Jt(s): 26,

27, 28

REACTIONS (lb/size)

2=1489/0-3-8, 15=879/4-3-8, 17=-136/4-3-8, 18=464/4-3-8, 19=446/4-3-8, 33=879/4-3-8

Max Horiz 2=-244 (LC 12)

Max Uplift 2=-201 (LC 14), 15=-418 (LC 14), 17=-380 (LC 41), 18=-287 (LC 14),

19=-823 (LC 41), 33=-418 (LC 14)

2=1762 (LC 47), 15=1445 (LC 41), Max Grav

17=192 (LC 11), 18=898 (LC 41).

19=1593 (LC 43), 33=1445 (LC 41)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum

Tension

1-2=0/23, 2-3=-2533/311, 3-5=-1925/295,

5-6=-1464/309, 6-7=-1674/329, 7-9=-1759/320, 9-10=-1812/297 10-11=-1902/291, 11-12=-1954/659 12-13=-1988/658, 13-14=-1741/548,

14-15=-1799/539, 15-16=0/23

BOT CHORD 2-25=-303/2187, 23-25=-303/2187, 22-23=-115/1532, 20-22=-263/1715, 19-20=-263/1715, 18-19=-411/1420, 17-18=-411/1420, 15-17=-411/1420 3-25=0/302, 3-23=-811/254, 5-23=-1/689, 6-22=-68/647, 22-26=-312/253 26-27=-329/227, 27-28=-311/236 11-28=-317/245, 11-20=0/180, 7-26=-11/54, 9-27=-68/25, 10-28=-17/23, 12-29=-89/28, 13-18=-702/223, 14-17=-102/98 11-29=-1462/456, 19-29=-1534/480,

NOTES

WEBS

Unbalanced roof live loads have been considered for this design

13-19=-177/552

- 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) -0-8-3 to 3-1-12, Interior (1) 3-1-12 to 9-5-1, Exterior(2R) 9-5-1 to 29-1-8, Interior (1) 29-1-8 to 35-1-4, Exterior(2E) 35-1-4 to 38-11-3 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.

- 7) Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 823 lb uplift at joint 19.
- 13) N/A
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or



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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



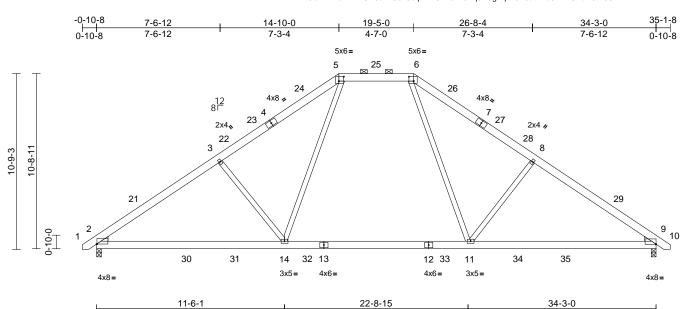
Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	A03	Piggyback Base	1	1	I5126 Job Reference (optional)	68443

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LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	B01	Piggyback Base	2	1	Job Reference (optional)	I51268444

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Apr 08 11:14:39 ID:5lchz?NlslvfKWGH8bT?U5zSoqE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:70.5 Plate Offsets (X, Y): [2:0-0-4,0-0-1], [5:0-3-8,0-3-4], [6:0-3-8,0-3-4], [9:Edge,0-0-3]

11-6-1

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	0.69	Vert(LL)	-0.26	14-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.32	14-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 231 lb	FT = 20%

11-2-14

LUMBER

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

WEBS 2x4 SP No.2 *Except* 14-3,11-8:2x4 SP No.3

WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-14 oc purlins, except 2-0-0 oc purlins (5-11-9 max.): 5-6.

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

bracing.

REACTIONS 2=1411/0-3-8, 9=1411/0-3-8 (lb/size)

Max Horiz 2=-244 (LC 12) Max Uplift 2=-138 (LC 14), 9=-138 (LC 15)

Max Grav 2=1754 (LC 47), 9=1753 (LC 49)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-2447/214, 3-5=-2218/237,

5-6=-1434/244, 6-8=-2225/240,

8-9=-2449/214, 9-10=0/23 **BOT CHORD**

2-14=-244/2110, 11-14=-8/1468, 9-11=-108/1963

WEBS 5-14=-88/962, 3-14=-564/312, 6-11=-91/963,

8-11=-561/312

NOTES

1) 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) -0-8-3 to 2-8-15, Interior (1) 2-8-15 to 9-11-14. Exterior(2R) 9-11-14 to 24-3-2. Interior (1) 24-3-2 to 31-6-1, Exterior(2E) 31-6-1 to 34-11-3 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.
- Provide adequate drainage to prevent water ponding.
- 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 9. 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



11-6-1

April 8,2022

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



Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	B02	Piggyback Base	7	1	Job Reference (optional)	I51268445

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Apr 08 11:14:39 ID:IV1DTozw0YP4YenSJcJjljzSooB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

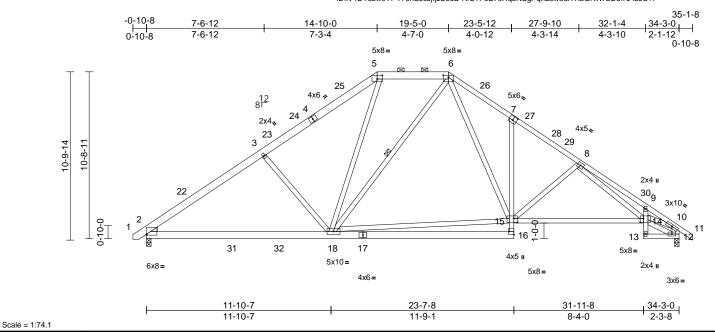


Plate Offsets (X, Y): [2:Edge,0-0-11], [5:0-4-0,0-2-13], [6:0-4-0,0-1-9], [7:0-3-0,0-3-0], [14:0-2-8,0-3-0], [15:0-2-12,0-3-0], [16:Edge,0-3-8]

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	0.57	Vert(LL)	-0.26	14-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.52	14-15	>778	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.17	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 266 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 6-7.7-11:2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except* 16-7,9-13:2x4 SP

No.3, 15-14:2x4 SP No.1, 13-12:2x4 SP No.2 **WEBS** 2x4 SP No.3 *Except* 12-10:2x6 SP No.2,

14-10,18-5,18-6,18-15:2x4 SP No.2

WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-6.

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

bracing.

WFBS 1 Row at midpt 6-18

REACTIONS (lb/size) 2=1401/0-3-8, 12=1428/0-3-8 Max Horiz 2=262 (LC 13)

Max Uplift 2=-119 (LC 14), 12=-125 (LC 15)

Max Grav 2=1672 (LC 47), 12=1668 (LC 49)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/23, 2-3=-2291/187, 3-5=-2038/207,

5-6=-1363/241, 6-8=-2255/293,

8-9=-3668/260, 9-10=-3367/176, 10-11=0/37,

10-12=-1656/114

2-18=-251/1990, 16-18=0/167, 15-16=0/200, 7-15=-386/181, 14-15=-39/2141, 13-14=0/24,

9-14=-170/118, 12-13=-36/166

WEBS 6-15=-185/1196, 8-15=-495/169,

8-14=-76/1225. 12-14=0/118. 10-14=-118/2500, 5-18=-21/748,

6-18=-225/200, 3-18=-540/279,

15-18=0/1215

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) -0-8-3 to 2-8-15, Interior (1) 2-8-15 to 9-11-14. Exterior(2R) 9-11-14 to 24-3-2. Interior (1) 24-3-2 to 31-8-6, Exterior(2E) 31-8-6 to 35-1-8 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
- 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.
- Provide adequate drainage to prevent water ponding.
- 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



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Job Truss Truss Type Qtv Ply DRB GROUP = 111 FaNC 151268446 22030207 B03 Piggyback Base 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. Fri Apr 08 11:14:40 Page: 1 ID:bTzmRHfga3b_uPeP94r46lzSonl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 35-1-8 14-10-0 19-5-0 34-3-0 0-10-8 14-10-0 4-7-0 14-10-0 0-10-8 3x5= 3x5= 1112 13 1415 10 16 3x5 4 3x5 ¹⁷18 9 8 12 81 19 48 49 50/20 647 10-9-14 10-8-1 M 5 21 22 23 24 25 45 44 43 42 41 40 39 38 37 36 35 34 33 31 30 29 28 27

Scale = 1:66.1

Plate Offsets (X, Y): [11:0-2-8,0-1-13], [15:0-2-8,0-1-13]

3x8 II

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	0.17	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	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	26	n/a	n/a	1	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 266 lb	FT = 20%

Max Grav 26=169 (LC 53), 27=157 (LC 29),

28=167 (LC 49), 29=163 (LC 25),

30=180 (LC 49), 31=220 (LC 39),

32=219 (LC 39), 33=221 (LC 39),

35=207 (LC 22), 36=234 (LC 38),

37=207 (LC 21), 39=221 (LC 39),

40=219 (LC 39), 41=220 (LC 39),

42=180 (LC 47), 43=164 (LC 24),

34-3-0

3x5:

LUMBER

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

OTHERS 2x4 SP No.3 *Except* 36-13,37-12,35-14:2x4

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 11-15. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

WFBS 13-36, 12-37, 10-39, 1 Row at midpt

14-35, 16-33

REACTIONS (lb/size)

26=118/34-3-0, 27=91/34-3-0, 28=163/34-3-0, 29=153/34-3-0, 30=155/34-3-0. 31=155/34-3-0. 32=155/34-3-0, 33=155/34-3-0, 35=152/34-3-0, 36=157/34-3-0, 37=152/34-3-0. 39=155/34-3-0. 40=155/34-3-0, 41=155/34-3-0, 42=155/34-3-0, 43=153/34-3-0,

44=163/34-3-0. 45=91/34-3-0.

Max Horiz 46=-259 (LC 12)

Max Uplift 26=-77 (LC 11), 27=-142 (LC 15),

46=-158 (LC 10)

46=118/34-3-0

28=-49 (LC 15), 29=-58 (LC 15), 30=-56 (LC 15), 31=-55 (LC 15), 32=-63 (LC 15), 33=-36 (LC 15), 36=-37 (LC 10), 39=-40 (LC 14), 40=-62 (LC 14), 41=-55 (LC 14), 42=-56 (LC 14), 43=-59 (LC 14), 44=-46 (LC 14), 45=-169 (LC 14), **BOT CHORD**

FORCES

TOP CHORD

44=164 (LC 39), 45=201 (LC 12), 46=228 (LC 49) (lb) - Maximum Compression/Maximum Tension 2-46=-180/120, 1-2=0/33, 2-3=-226/205, 3-4=-166/164, 4-5=-147/145, 5-6=-130/139, 6-7=-118/159, 7-9=-111/191, 9-10=-142/238, 10-11=-166/279, 11-12=-143/252, 12-13=-143/252, 13-14=-143/252, 14-15=-143/252, 15-16=-166/279, 16-17=-142/238, 17-19=-108/181, 19-20=-78/128, 20-21=-65/86, 21-22=-79/73 22-23=-107/92, 23-24=-175/119, 24-25=0/33, 24-26=-131/59

45-46=-104/144, 44-45=-104/144,

43-44=-104/144, 42-43=-104/144, 41-42=-104/144, 40-41=-104/144, 39-40=-104/144, 37-39=-104/144, 36-37=-104/144, 35-36=-104/144,

33-35=-104/144, 32-33=-104/144, 31-32=-104/144, 30-31=-104/144,

29-30=-104/144, 28-29=-104/144, 27-28=-104/144, 26-27=-104/144

WEBS 13-36=-195/60, 12-37=-168/29,

10-39=-182/63, 9-40=-180/86, 7-41=-182/78, 6-42=-141/79, 5-43=-124/80, 4-44=-128/77,

3x8 ı

3-45=-123/125, 14-35=-168/12, 16-33=-182/60. 17-32=-180/87.

19-31=-182/78, 20-30=-142/80, 21-29=-124/80, 22-28=-129/78,

23-27=-104/111

NOTES

3x5=

- 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 2-6-10, Exterior (2N) 2-6-10 to 11-1-8, Corner(3R) 11-1-8 to 23-1-8, Exterior(2N) 23-1-8 to 31-8-6, Corner(3E) 31-8-6 to 35-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber



April 8,2022

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 = 111 FaNC	
22030207	B03	Piggyback Base Supported Gable	1	1	Job Reference (optional)	151268446

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Apr 08 11:14:40 ID:bTzmRHfga3b_uPeP94r46lzSonI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

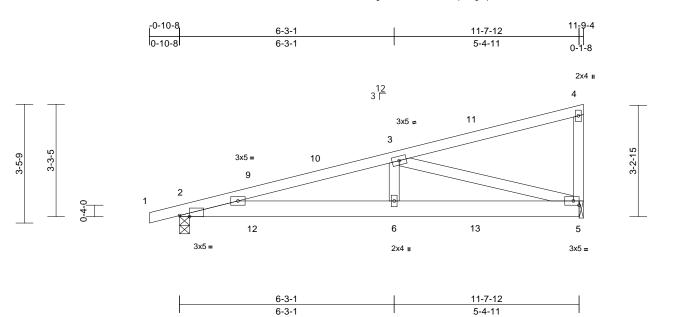
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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.
- 14) N/A
- 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.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	C01	Monopitch	18	1	Job Reference (optional)	51268447

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Apr 08 11:14:40 ID:QxstrrXaatHFfrem_4YWgkzSoeP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:33.6

Plate Offsets (X, Y): [2:0-3-7,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	0.53	Vert(LL)	0.08	6-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.09	6-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 60 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-10-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-4-5 oc

bracing.

REACTIONS (lb/size) 2=523/0-3-8, 5=456/0-1-8

Max Horiz 2=118 (LC 10)

Max Uplift 2=-199 (LC 10), 5=-184 (LC 10)

Max Grav 2=585 (LC 21), 5=584 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-1288/1130, 3-4=-66/34 BOT CHORD 2-6=-1200/1232. 5-6=-1200/1232 WFBS

3-6=-380/273, 3-5=-1280/1247, 4-5=-185/117

NOTES

- 1) 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 8-7-8, Exterior(2E) 8-7-8 to 11-7-8 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
- 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.

- 4) 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.
- 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. 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



April 8,2022

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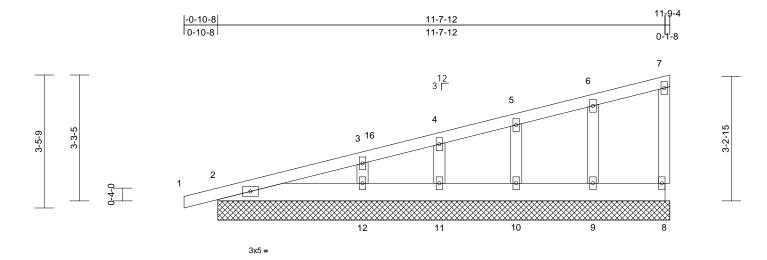
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	C02	Monopitch Supported Gable	2	1	Job Reference (optional)	51268448

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Apr 08 11:14:41 ID:JzdpF1omeKwGg4lpj_QR09zSoe4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



				1								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 58 lb	FT = 20%

11-7-12

LUMBER

Scale = 1:30

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

REACTIONS (lb/size) 2=-19/11-9-4, 8=64/11-9-4, 9=140/11-9-4, 10=286/11-9-4,

11=-326/11-9-4, 12=838/11-9-4, 15=-19/11-9-4

Max Horiz 2=117 (LC 10), 15=117 (LC 10) Max Uplift 2=-19 (LC 1), 8=-12 (LC 10), 9=-29

(LC 14), 10=-54 (LC 10), 11=-326 (LC 1), 12=-152 (LC 10), 15=-19

(LC 1)

Max Grav 2=4 (LC 10), 8=82 (LC 21), 9=194 (LC 21), 10=334 (LC 21), 11=60 (LC 10), 12=851 (LC 21), 15=4 (LC

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/13, 2-3=-223/214, 3-4=-109/28,

4-5=-87/30, 5-6=-51/20, 6-7=-23/11

2-12=-194/244, 11-12=0/0, 10-11=0/0, 9-10=0/0. 8-9=0/0

WFBS 6-9=-178/121, 5-10=-190/127, 4-11=-81/66,

3-12=-261/184, 7-8=-63/43

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 Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 8-7-8, Corner(3E) 8-7-8 to 11-7-8 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 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.
- 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) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15.

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



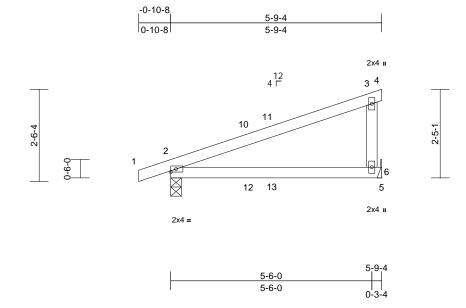
April 8,2022

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



Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	D01	Monopitch	7	1	Job Reference (optional)	51268449

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Scale = 1:31.5

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	0.67	Vert(LL)	0.17	6-9	>395	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	0.13	6-9	>489	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: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=276/0-3-8, 6=238/ Mechanical

Max Horiz 2=86 (LC 13)

Max Uplift 2=-110 (LC 10), 6=-90 (LC 10) Max Grav 2=383 (LC 21), 6=324 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/25, 2-3=-81/114, 3-4=-8/0,

3-6=-238/188

BOT CHORD 2-6=-85/101, 5-6=0/0

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 Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-9-4, Exterior(2E) 2-9-4 to 5-9-4 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.

- 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 90 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





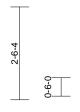
Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	D02	Monopitch Supported Gable	2	1	Job Reference (optional)	I51268450

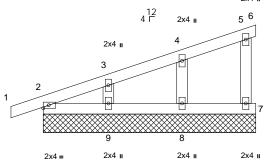
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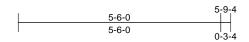
2-5-1

Page: 1









Scale = 1:31.3

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	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0	ļ									Weight: 24 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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-9-4 oc purlins, except end verticals.

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

REACTIONS (lb/size)

7=81/5-9-4, 8=159/5-9-4, 9=144/5-9-4, 10=119/5-9-4 Max Horiz 2=83 (LC 13), 10=83 (LC 13) Max Uplift 2=-28 (LC 10), 6=-16 (LC 21), 7=-22 (LC 14), 8=-31 (LC 10), 9=-38 (LC 14), 10=-28 (LC 10)

2=119/5-9-4, 6=-11/5-9-4,

Max Grav 2=170 (LC 21), 6=7 (LC 14), 7=114 (LC 21), 8=216 (LC 21), 9=195 (LC

21), 10=170 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-107/54, 3-4=-50/28,

4-5=-39/20, 5-6=-12/6, 5-7=-101/92

BOT CHORD 2-9=-39/45, 8-9=-34/45, 7-8=-34/45 WEBS 4-8=-176/175, 3-9=-158/162

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 Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-9-4 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
- 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 16 lb uplift at joint



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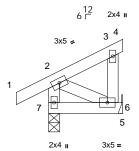


Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	E01	Monopitch	9	1	Job Reference (optional)	151268451

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Scale = 1:31.1

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	0.10	Vert(LL)	0.00	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	6-7	>999	180		
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: 13 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 5=57/ Mechanical, 7=152/0-3-8

Max Horiz 7=67 (LC 11)

Max Uplift 5=-24 (LC 11), 7=-24 (LC 14)

Max Grav 5=75 (LC 21), 7=212 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/40, 2-3=-45/20, 3-4=-11/0, 3-6=-66/19,

2-7=-185/97

BOT CHORD 6-7=-64/20, 5-6=0/0

WFBS 2-6=-14/81

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) 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.
- Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 24 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. 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



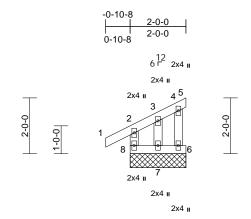
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	E02	Monopitch Supported Gable	1	1	Job Reference (optional)	I51268452

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Scale = 1:41.3

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	0.21	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	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0	ļ									Weight: 12 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

BRACING

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

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

REACTIONS (lb/size)

5=6/2-0-0, 6=32/2-0-0, 7=37/2-0-0,

8=122/2-0-0 Max Horiz 8=66 (LC 11)

Max Uplift 5=-15 (LC 14), 6=-5 (LC 11), 7=-29

(LC 11), 8=-18 (LC 10) Max Grav 5=9 (LC 21), 6=44 (LC 21), 7=46

(LC 21), 8=174 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-8=-158/171, 1-2=0/39, 2-3=-37/12, 3-4=-25/15, 4-5=-26/8, 4-6=-43/12

7-8=-26/18, 6-7=-26/18 BOT CHORD

WFBS 3-7=-36/64

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 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
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 9) 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint

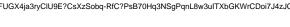


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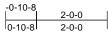


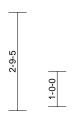
Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	F01	Monopitch	10	1	Job Reference (optional)	151268453

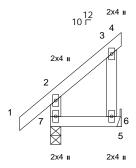
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2-8-0









Scale = 1:32.6

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	0.20	Vert(LL)	0.00	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 5=57/ Mechanical 7=152/0-3-8

Max Horiz 7=91 (LC 13)

Max Uplift 5=-45 (LC 11), 7=-9 (LC 14)

Max Grav 5=82 (LC 24), 7=230 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/62, 2-3=-68/32, 3-4=-16/0, 3-6=-74/43,

2-7=-199/120

BOT CHORD 6-7=-35/28, 5-6=0/0

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 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
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 45 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. 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



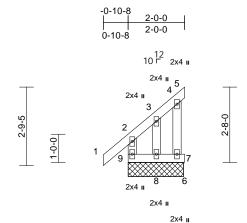
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	F02	Monopitch Supported Gable	2	1	Job Reference (optional)	I51268454

Run: 8.53 E Dec 17 2021 Print: 8.530 E Dec 17 2021 MiTek Industries, Inc. Fri Apr 08 15:48:43 ID:HoUPn1g_8ySHmu5bl2inorzSobf-n6KHXJO7zDWdFyQ7e8nPZhYak6SNWuJ0AgVZ5nzSkJI







Scale = 1:40.8

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	0.24	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	0.02	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0			1							Weight: 14 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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

REACTIONS (lb/size) 7=50/1-11-8, 8=28/1-11-8,

9=125/1-11-8

Max Horiz 9=88 (LC 11)

Max Uplift 7=-19 (LC 11), 8=-58 (LC 11),

9=-31 (LC 10) Max Grav 7=72 (LC 21), 8=71 (LC 12), 9=194

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-9=-178/112, 1-2=0/60, 2-3=-70/41, 3-4=-38/27, 4-5=-16/0, 4-7=-62/25

BOT CHORD 8-9=-34/37, 7-8=-34/37, 6-7=0/0

WFBS 3-8=-59/77

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 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
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) N/A
- 11) Non Standard bearing condition. Review required.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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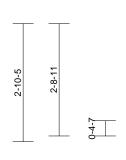
ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

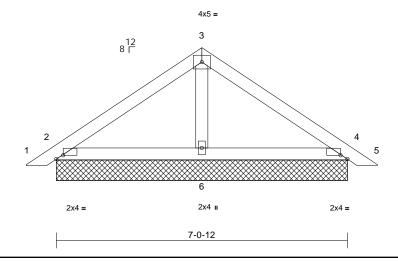


Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	PB1	Piggyback	9	1	Job Reference (optional)	

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Apr 08 11:14:42 ID:YebNuC9uDApDqwikEQmEKQzSozY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

-0-8-12			
	3-6-6	7-0-12	7-9-8
0-8-12	3-6-6	3-6-6	0-8-12





Scale = 1:28

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

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 OTHERS 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=193/7-0-12, 4=193/7-0-12,

6=237/7-0-12, 7=193/7-0-12, 11=193/7-0-12

Max Horiz 2=63 (LC 13), 7=63 (LC 13) Max Uplift 2=-37 (LC 14), 4=-45 (LC 15),

7=-37 (LC 14), 11=-45 (LC 15)

Max Grav 2=279 (LC 21), 4=279 (LC 22),

6=250 (LC 22), 7=279 (LC 21),

11=279 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/26, 2-3=-162/90, 3-4=-162/90,

4-5=0/26

BOT CHORD 2-6=-20/66, 4-6=-9/66

WEBS 3-6=-105/15

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) 0-3-5 to 3-3-5. Exterior(2R) 3-3-5 to 5-3-11, Exterior(2E) 5-3-11 to 8-3-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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
- 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.
- 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.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 8,2022

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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



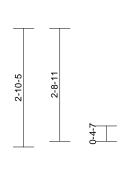
818 Soundside Road Edenton, NC 27932

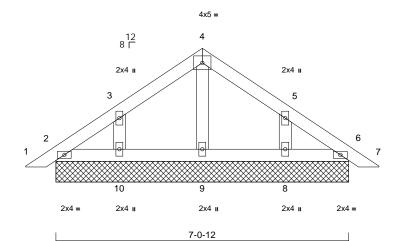
Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	
22030207	PB2	Piggyback	2	1	Job Reference (optional)	151268456

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Apr 08 11:14:42 ID:ro6J32sHZ?7?oq8tdcpqhezSoye-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

-0-8-12			
	3-6-6	7-0-12	7-9-8
0-8-12	3-6-6	3-6-6	0-8-12





Scale = 1:27.8

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	0.07	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	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 31 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

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

2=84/7-0-12 6=84/7-0-12 8=161/7-0-12, 9=114/7-0-12, 10=161/7-0-12, 11=84/7-0-12,

15=84/7-0-12

Max Horiz 2=61 (LC 13), 11=61 (LC 13) Max Uplift 2=-6 (LC 15), 6=-1 (LC 15), 8=-64

(LC 15), 10=-65 (LC 14), 11=-6 (LC

15), 15=-1 (LC 15)

Max Grav 2=123 (LC 21), 6=123 (LC 22),

8=237 (LC 22), 9=120 (LC 21), 10=237 (LC 21), 11=123 (LC 21),

15=123 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-44/43, 3-4=-81/71,

4-5=-81/71, 5-6=-28/29, 6-7=0/25 **BOT CHORD** 2-10=-17/56, 9-10=-17/56, 8-9=-17/56,

6-8=-17/56

WFBS 4-9=-80/0. 3-10=-198/124. 5-8=-198/124

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) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 5-3-11, Exterior(2E) 5-3-11 to 8-3-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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 6) 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.
- 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.
- 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.

13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 8,2022

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

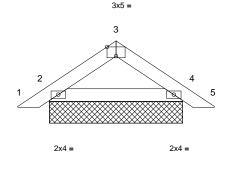


Job	Truss	Truss Type	Qty Ply		DRB GROUP = 111 FaNC	
22030207	PB3	Piggyback	9	1	Job Reference (optional)	151268457

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-0-8-12				
0 0 .2	1-6-6	3-0-12	3-9-8	
0-8-12	1-6-6	1-6-6	0-8-12	

8 T



3-0-12

Scale = 1:26.5

Plate Offsets (X, Y): [3:0-2-8,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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=152/3-0-12, 4=159/3-0-12,

6=152/3-0-12, 10=159/3-0-12 Max Horiz 2=-32 (LC 12), 6=-32 (LC 12)

Max Uplift 2=-20 (LC 14), 4=-16 (LC 15), 6=-20 (LC 14), 10=-16 (LC 15)

Max Grav 2=186 (LC 21), 4=193 (LC 22), 6=186 (LC 21), 10=193 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/23, 2-3=-96/50, 3-4=-98/48, 4-5=0/23 2-4=-2/74

BOT CHORD 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) 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.
- 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 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.
- 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.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



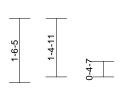
April 8,2022

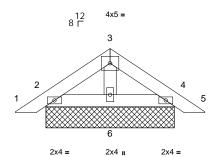
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP = 111 FaNC	154000450	
22030207	PB4	Piggyback	1	1	Job Reference (optional)	151268458	

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-0-8-12			
	1-6-6	3-0-12	3-9-8
0 9 12	166	1-6-6	0 9 12





Scale = 1:27.5

3-0-12	

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	0.03	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	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 14 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

4-7-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

2=94/3-0-12, 4=94/3-0-12, 6=106/3-0-12, 7=94/3-0-12,

11=94/3-0-12

Max Horiz 2=-31 (LC 12), 7=-31 (LC 12) Max Uplift 2=-19 (LC 14), 4=-24 (LC 15), 6=-1

(LC 14), 7=-19 (LC 14), 11=-24 (LC

15)

Max Grav 2=127 (LC 21), 4=127 (LC 22),

6=106 (LC 1), 7=127 (LC 21),

11=127 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/22, 2-3=-37/37, 3-4=-37/37, 4-5=0/22 TOP CHORD

BOT CHORD 2-6=-5/33. 4-6=-5/33 WEBS 3-6=-46/7

NOTES

- 1) 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) 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 6) 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.
- 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.
- 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.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 8,2022

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 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



Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

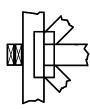
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

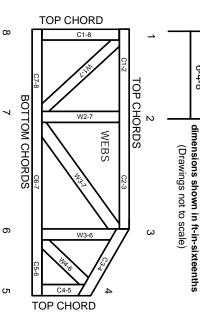
Industry Standards:

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

DSB-89: ANSI/TPI1:

Numbering System

6-4-8



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

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

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

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