Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	A1	Attic	10	1	Job Reference (optional)	E14157638

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:21 ID:zzYR?xB1eKulsS5G4JFTE2zcjit-p5lotJRxSzae10b_2pdQlhZ0l?Gv8QV7sUlFn_zcifE

Page: 1

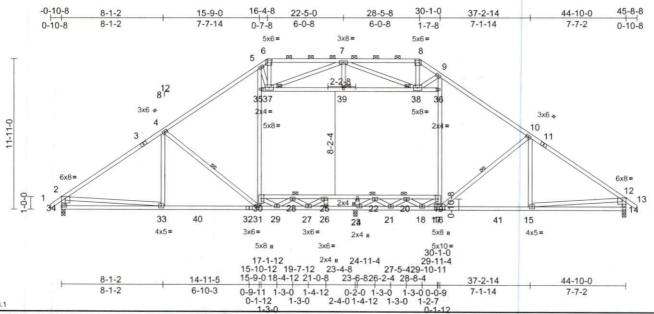


Plate Offsets (X, Y): [2:0-3-8,Edge], [6:0-4-4,0-2-4], [8:0-4-4,0-2-4], [12:0-3-8,Edge], [16:0-3-0,0-3-0]

				0-7-1	-,							
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.48	31-33	>589	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.64	31-33	>442	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.06	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.41	19-30	>421	360		
BCDL	10.0	O SAMO SAMO								000	Weight: 340 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 30-19:2x4 SP 2400F

2.0E

2x4 SP No.2 *Except*

18-19,29-30,18-20,29-28,21-20,27-28,21-22,

27-25,23-22,26-25,23-24:2x4 SP No.3

BRACING

WEBS

WEBS

TOP CHORD Structural wood sheathing directly applied or

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

2-0-0 oc purlins (4-7-7 max.): 6-8.

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

bracing, Except: 4-5-11 oc bracing: 26-27

4-2-13 oc bracing: 23-26 4-7-5 oc bracing: 21-23. 1 Row at midpt 4-31, 10-16

1 Brace at Jt(s): 20, JOINTS

28, 22, 37, 38, 39

REACTIONS (size)

14=0-3-8, 23=0-3-8, 34=0-3-8

Max Horiz 34=250 (LC 12)

14=1652 (LC 3), 23=1539 (LC 27), Max Grav

34=1760 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/43, 2-3=-2392/198, 3-4=-2193/225,

4-5=-1938/264, 5-6=-1682/365, 6-7=-1384/210, 7-8=-1029/236.

8-9=-1276/291, 9-10=-1899/256

10-11=-2071/224, 11-12=-2257/198,

12-13=0/43, 2-34=-1693/238,

12-14=-1584/232

BOT CHORD

33-34=-233/613, 33-40=-46/2048,

32-40=-46/2048, 31-32=-46/2048, 29-31=-121/1793, 27-29=-240/1696,

26-27=-1309/416, 23-26=-1309/416,

21-23=-1010/288, 18-21=0/794,

17-18=0/1510, 16-17=0/1510,

16-41=-49/1791, 15-41=-49/1791 14-15=-130/437, 28-30=-303/734,

25-28=-230/1454, 24-25=-176/2404,

22-24=-176/2404, 20-22=-149/1592,

19-20=-192/730

WEBS 4-33=0/155, 4-31=-554/207, 30-31=-43/476,

30-35=0/552, 5-35=0/525, 16-19=-31/406, 19-36=-12/399, 9-36=0/396, 10-16=-506/203

10-15=0/123 35-37=-159/183

37-39=-193/453, 38-39=-193/453,

36-38=-304/244, 2-33=0/1511, 12-15=0/1450,

18-19=-570/75, 29-30=-540/98 18-20=-113/775, 28-29=-177/347,

20-21=-1025/40, 27-28=-822/34,

21-22=-12/800, 25-27=0/1548,

22-23=-353/151, 25-26=-495/0,

23-24=-948/0, 6-37=-290/995,

8-38=-114/606, 7-39=-1/63, 9-38=-664/128,

5-37=-922/263, 7-37=-732/243,

7-38=-893/201

NOTES

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

Wind: ASCE 7-10: Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft. Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow): Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0

This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

5) Provide adequate drainage to prevent water ponding. All plates are 3x5 MT20 unless otherwise indicated.

* 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.

Ceiling dead load (5.0 psf) on member(s). 35-37, 37-39, 38-39, 36-38; Wall dead load (5.0psf) on member (s).30-35, 19-36

Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 28-30, 25-28, 24-25, 22-24, 20-22, 19-20



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MT lew 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 methers 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 Comp. Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	E44457000
20010097-A	A1	Attic	10	1	Job Reference (optional)	E14157638

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MITek Industries, Inc. Mon Mar 09 09:31:21 ID:zzYR?xB1eKulsS5G4JFTE2zcjit-p5lotJRxSzae10b_2pdQlhZ0l?Gv8QV7sUlFn_zcifE

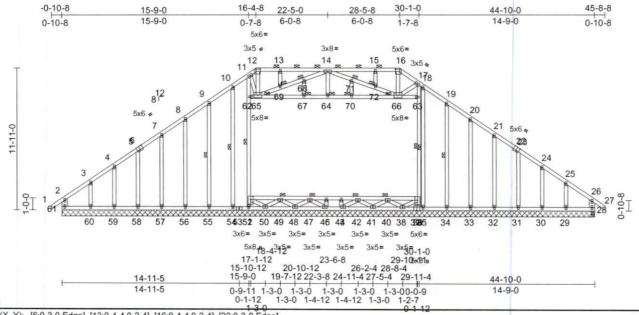
Page: 2

- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	A1GE	Attic	1	1	Job Reference (optional)	E14157639
Carter Components (Sanf	ford), Sanford, NC - 27332,				13 2020 MiTek Industries, Inc. Mon Mar 09 09	



		100
Plate Offsets (X, Y):	[6:0-3-0,Edge], [12:0-4-4,0-2-4], [16:0-4-4,0-2-4],	[22:0-3-0.Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.01	49-51	>999	240	MT20	244/190	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.01	49-51	>999	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	28	n/a	n/a	1		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH						3.50.990			
BCDL	10.0	Sociality		Constitution of the state of th							Weight: 411 lb	FT = 20%	

LUMBER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3 *Except*	
	11-52,17-36,62-63,66-14,14-65:2x4 SP No.2.	

61-2,28-26:2x6 SP No.2

OTHERS 2x4 SP No.3 *Except* 54-10,55-9,56-8,57-7,35-18,34-19,33-20,32-2

1:2x4 SP No.2

BRACING

BOT CHORD

WEBS

Scale = 1:93.3

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.): 12-16. Rigid ceiling directly applied or 6-0-0 oc

bracing, Except: 10-0-0 oc bracing: 48-50,46-48,41-43,38-41.

1 Row at midpt 51-62, 39-63, 10-54, 9-55, 18-35, 19-34

JOINTS 1 Brace at Jt(s): 40, 49, 42, 47, 64, 65,

66, 67, 68, 69, 70, 71, 72

REACTIONS (size) 28=44-10-0, 29=44-10-0, 30=44-10-0, 31=44-10-0, 32=44-10-0, 33=44-10-0, 34=44-10-0, 35=44-10-0, 36=44-10-0, 38=44-10-0, 41=44-10-0, 43=44-10-0, 46=44-10-0, 48=44-10-0, 50=44-10-0, 52=44-10-0, 54=44-10-0, 55=44-10-0,

> 58=44-10-0, 59=44-10-0, 60=44-10-0, 61=44-10-0 Max Horiz 61=-252 (LC 11)

56=44-10-0, 57=44-10-0

Max Uplift 28=-59 (LC 10), 29=-87 (LC 14), 30=-14 (LC 14), 31=-33 (LC 14), 32=-29 (LC 14), 33=-30 (LC 14),

34=-34 (LC 14), 54=-5 (LC 13), 55=-37 (LC 13), 56=-29 (LC 13), 57=-29 (LC 13), 58=-34 (LC 13), 59=-11 (LC 13), 60=-103 (LC 10),

61=-110 (LC 9) Max Grav 28=214 (LC 26), 29=204 (LC 27), 30=166 (LC 31), 31=168 (LC 27), 32=166 (LC 27), 33=167 (LC 27), 34=157 (LC 27), 35=282 (LC 31),

36=402 (LC 2), 38=228 (LC 20), 41=329 (LC 20), 43=233 (LC 20) 46=233 (LC 20), 48=327 (LC 20), 50=233 (LC 20), 52=575 (LC 2), 54=174 (LC 30), 55=160 (LC 26), 56=167 (LC 26), 57=165 (LC 26),

58=170 (LC 26), 59=166 (LC 30), 60=225 (LC 26), 61=255 (LC 27)

(lb) - Maximum Compression/Maximum Tension

> 1-2=0/46, 2-3=-195/166, 3-4=-153/137, 4-5=-151/143, 5-6=-162/143, 6-7=-160/157, 7-8=-210/215, 8-9=-259/273, 9-10=-308/334, 10-11=-347/371, 11-12=-406/367,

12-13=-361/319, 13-14=-361/319, 14-15=-404/295, 15-16=-404/295 16-17=-478/330, 17-18=-352/336, 18-19=-305/334, 19-20=-259/274, 20-21=-210/215, 21-22=-161/157, 22-23=-162/144, 23-24=-113/98, 24-25=-107/86, 25-26=-144/104, 26-27=0/46,

2-61=-209/97, 26-28=-175/55

BOT CHORD

60-61=-98/122, 59-60=-98/122, 58-59=-98/122, 57-58=-98/122 56-57=-98/122, 55-56=-98/122, 54-55=-98/122 53-54=-98/122 52-53=-98/122, 50-52=-103/127, 48-50=-42/164, 46-48=-35/109, 43-46=-67/57, 41-43=-35/110, 38-41=-40/167, 37-38=-93/117, 36-37=-93/117, 35-36=-96/121, 34-35=-96/121, 33-34=-96/121, 32-33=-96/121, 31-32=-96/121,

30-31=-96/121, 29-30=-96/121 28-29=-96/121, 49-51=-4/99, 47-49=-28/120, 45-47=-37/85, 44-45=-37/85, 42-44=-37/85, 40-42=-28/120, 39-40=-5/90

NORTH CAR 036322 MGINEER March 9,2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters and 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 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 mehbers only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord mehbers 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/IPH1 Quality Criteria, DSB-89 and BCSI Building Componer Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

FORCES

TOP CHORD



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	A1GE	Attic	1	1	Job Reference (optional)	E14157639

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:30 ID:n7viG?GoEAeSaNZQQaMtTizcjin-mIPzspgs_ozypwYeflStZhsNMfwn58_wExOmxNzciex

Page: 2

WEBS

51-52=-554/0, 51-62=-570/30, 11-62=-548/26, 36-39=-405/0 39-63=-412/21, 17-63=-344/24, 62-65=-6/4, 65-67=-156/864, 64-67=-156/864, 64-70=-156/864, 66-70=-156/864, 63-66=-12/6, 38-39=-94/0, 50-51=-112/8, 38-40=-249/0, 49-50=-252/0, 40-41=-278/0, 48-49=-275/0, 41-42=-199/0, 47-48=-199/0, 42-43=-143/0, 46-47=-143/0, 45-46=-120/0, 43-44=-120/0, 14-64=-22/145, 11-65=-11/518, 12-65=-156/137, 16-66=-126/153, 17-66=-3/437, 14-71=-552/222, 71-72=-532/209, 66-72=-568/228, 65-69=-738/202, 68-69=-702/183, 14-68=-723/197 10-54=-138/49, 9-55=-128/89, 8-56=-128/80, 7-57=-127/81, 5-58=-129/83, 4-59=-124/76, 3-60=-159/114, 18-35=-244/1, 19-34=-122/84, 20-33=-129/82 21-32=-127/81, 23-31=-129/83, 24-30=-124/76, 25-29=-155/113 67-68=-60/39, 13-69=-101/52, 70-71=-59/40, 15-72=-103/55

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding
- All plates are 2x4 MT20 unless otherwise indicated.
 Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web) 9) Gable studs spaced at 2-0-0 oc.
- * 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) Ceiling dead load (5.0 psf) on member(s). 62-65, 65-67, 64-67, 64-70, 66-70, 63-66; Wall dead load (5.0psf) on member(s).51-62. 39-63
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 49-51, 47-49, 45-47, 44-45, 42-44, 40-42, 39-40
- 13) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 61, 28, 54, 55, 56, 57, 58, 59, 60, 34, 33, 32, 31, 30, and 29. This connection is for uplift only and does not consider lateral forces.
- 14) This truss is designed in accordance with the 2015 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 bottom chord.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	Description of the Control of the Co
20010097-A	CP1	Common	5	1	Job Reference (optional)	E14157640

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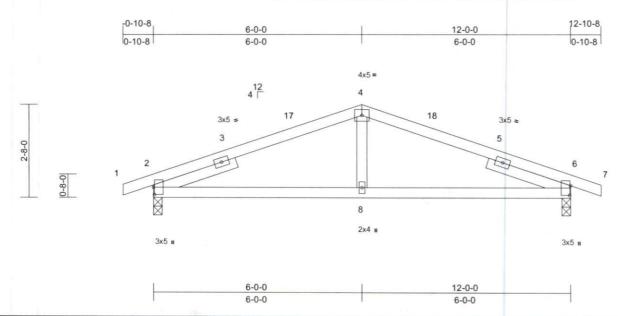


Plate Offsets (X, Y): [2:0-2-8,0-0-5], [6:0-3-5,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	1/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25							
A CONTRACTOR OF THE PARTY OF TH						Vert(LL)	-0.04	8-15	>999		MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.06	8-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		8. 8						
BCDL	10.0										Weight: 50 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 -- 2-6-0, Right 2x4 SP No.3

-- 2-6-0

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 (size) 2=0-3-0, 6=0-3-0

Max Horiz 2=23 (LC 15)

Max Uplift 2=-30 (LC 11), 6=-30 (LC 12) Max Grav 2=533 (LC 2), 6=533 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-2=0/21, 2-3=-327/11, 3-17=-709/228, TOP CHORD 4-17=-699/238, 4-18=-699/238,

5-18=-709/228, 5-6=-327/12, 6-7=0/21

BOT CHORD 2-8=-166/673, 6-8=-148/673

WERS 4-8=0/154

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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 RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

SEAL 036322 A. GILB TALLER TO

Page: 1

March 9,2020

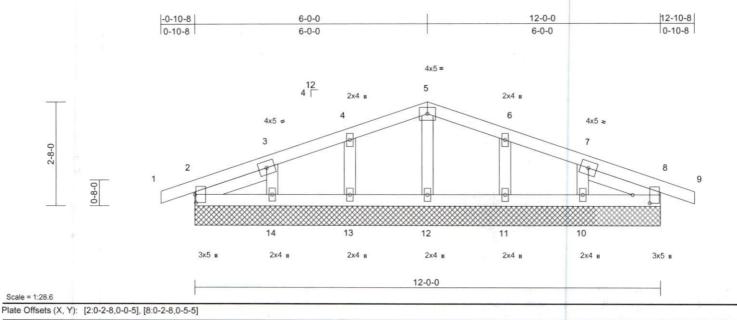
A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designs. Pracing individual to prevent buckling of individual truss web and/or chord meres only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord meres only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss event uses a property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	CP1GE	Common Supported Gable	1	1	Job Reference (optional)	E14157641

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Page:



Loading

TCDL

BCLL

BCDL

TCLL (roof)

Snow (Pf/Pg)

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

SLIDER Left 2x4 SP No.3 -- 1-11-11, Right 2x4 SP

(psf)

20.0

10.0

10.0

0.0*

13.9/20.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

No.3 -- 1-11-11

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

2=12-0-0, 8=12-0-0, 10=12-0-0 11=12-0-0, 12=12-0-0, 13=12-0-0. 14=12-0-0, 15=12-0-0, 19=12-0-0

2-0-0

1.15

1.15

YES

IRC2015/TPI2014

Max Horiz 2=23 (LC 15), 15=23 (LC 15) Max Uplift 2=-23 (LC 11), 8=-28 (LC 12),

10=-14 (LC 16), 11=-14 (LC 12), 13=-14 (LC 11), 14=-16 (LC 15), 15=-23 (LC 11), 19=-28 (LC 12)

Max Grav 2=136 (LC 2), 8=136 (LC 2), 10=158 (LC 2), 11=170 (LC 34), 12=143 (LC 2), 13=170 (LC 33),

14=158 (LC 2), 15=136 (LC 2), 19=136 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/21, 2-3=-36/19, 3-4=-27/39 4-5=-36/74, 5-6=-36/74, 6-7=-27/39,

7-8=-33/18. 8-9=0/21

2-14=-4/33, 13-14=-4/33, 12-13=-4/33, BOT CHORD

11-12=-4/33, 10-11=-4/33, 8-10=-4/33 5-12=-102/22, 4-13=-131/87, 3-14=-114/77,

6-11=-131/87, 7-10=-114/78

WEBS NOTES

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.06

0.02

0.03

(loc)

8 n/a n/a

n/a

n/a

0.00

I/defl

n/a

n/a

L/d

999

999

CSI

TC

BC

WB

Matrix-MSH

- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 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 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



PLATES

Weight: 55 lb

MT20

GRIP

244/190

FT = 20%

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 designs. 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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

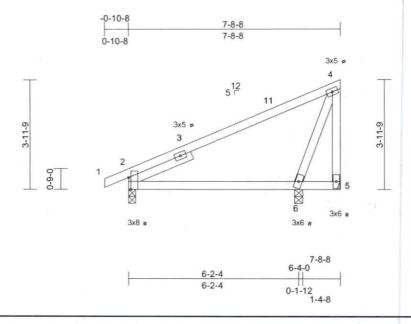
ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	E14457040
20010097-A	P1	Monopitch	3	1	Job Reference (optional)	E14157642

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:32 ID:gddoXY6eIB?IWN3wALdqSZzcjj_-i8XkHVh6WQDf2Eh1njVLe6xcrTWwZ21DhFts?Gzciev

Page: 1



Scale = 1:40.4

Plate Offsets (X, Y): [2:0-5-3,Edge]		al. of										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	0.07	6-9	>985	240	MT20	244/190	
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.11	6-9	>647	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	2	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP		, ,							
BCDL	10.0										Weight: 39 lb	FT = 20%	

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-5-7 oc

bracing REACTIONS

2=0-3-0, 5= Mechanical, 6=0-3-8 (size)

Max Horiz 2=116 (LC 14)

Max Uplift 2=-62 (LC 15), 5=-246 (LC 15), 6=-695 (LC 2)

2=490 (LC 2), 5=863 (LC 2), 6=277 Max Grav

(LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-474/311, 3-11=-405/314,

4-11=-389/324, 4-5=-959/823 **BOT CHORD** 2-6=-544/414, 5-6=-63/68

WEBS 4-6=-847/1011

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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 246 lb uplift at joint 5.
- One RT7A USP 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
- One RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



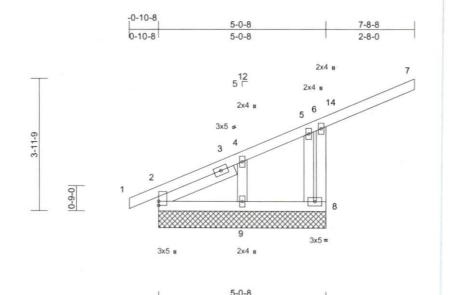
March 9,2020

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	P1GE	Monopitch Supported Gable	1	1	Job Reference (optional)	E14157643

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:32 ID:gddoXY6elB?IWN3wALdqSZzcjj_-i8XkHVh6WQDf2Eh1njVLe6xdBTeoZ5iDhFts?Gzciev



Scale = 1:33.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB		Horz(CT)	0.00	2	n/a	n/a	l	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP					1000	10.00	1	
BCDL	10.0										Weight: 34 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 2=

2=5-0-8, 8=5-0-8, 9=5-0-8,

10=5-0-8

Max Horiz 2=114 (LC 12), 10=114 (LC 12) Max Uplift 8=-108 (LC 12), 9=-23 (LC 15) Max Grav 2=118 (LC 30), 8=332 (LC 21),

9=180 (LC 2), 10=118 (LC 30)

FORCES (Ib) - Maximum Compression/Maximum Tension

1-2=0/25, 2-3=-74/17, 3-4=-252/145,

TOP CHORD 1-2=0/2

4-5=-195/120, 5-6=-250/232, 6-14=-82/0,

7-14=-67/0, 6-8=-815/702

BOT CHORD 2-9=-80/113, 8-9=-80/113

WEBS 4-9=-112/142, 5-8=-404/507

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing
- 7) Gable studs spaced at 2-0-0 oc.
- 8) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 9. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

SEAL 036322

Page: 1

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

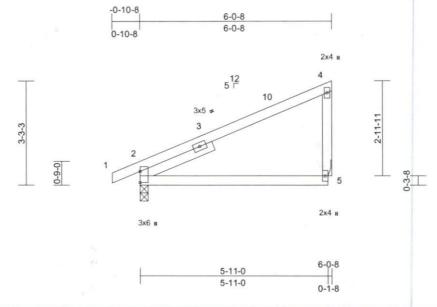


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	F44457044
20010097-A	P2	Monopitch	6	1	Job Reference (optional)	E14157644

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:33 ID:gddoXY6eIB?IWN3wALdqSZzcjj -i8XkHVh6WQDf2Eh1njVLe6xf1TauZ8ZDhFts?Gzciev

Page: 1



ral			

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.07	5-8	>993	240	MT20	244/190	
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.12	5-8	>601	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP		, ,							
BCDL	10.0										Weight: 28 lb	FT = 20%	

LUMBER

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

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

BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

REACTIONS

2=0-3-0, 5= Mechanical (size)

Max Horiz 2=93 (LC 14)

Max Uplift 2=-9 (LC 15), 5=-17 (LC 15) Max Grav 2=292 (LC 2), 5=232 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/25, 2-3=-240/0, 3-10=-104/70,

4-10=-100/87, 4-5=-158/153 **BOT CHORD** 2-5=-306/169

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint
- 8) One RT7A USP 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.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

036322 A. GILB

March 9,2020

Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTek® 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 property incorporate this design into the overall building designs. Pracing 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	544457045
20010097-A	P2GE	Monopitch Supported Gable	1	1	Job Reference (optional)	E14157645

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:33 ID:gddoXY6eIB?IWN3wALdqSZzcjj_-AK46UrikHjLWgOGDLR0aBKUwEs?flbAMwvdQYizcieu

Page: 1

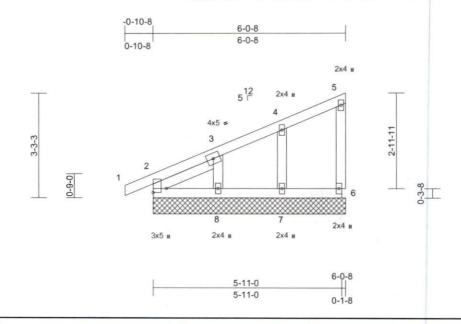


Plate Offsets (X, Y): [2:Edge,0-5-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a		n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	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	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP			11.00.00,00.00			1		
BCDL	10.0	I STOCKES									Weight: 32 lb	FT = 20%

LUMBER

Scale = 1:34.8

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

SLIDER Left 2x4 SP No.3 -- 2-1-5

BRACING

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

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

bracing

REACTIONS (size)

2=6-0-8, 6=6-0-8, 7=6-0-8,

8=6-0-8, 9=6-0-8

Max Horiz 2=93 (LC 14), 9=93 (LC 14) Max Uplift 2=-4 (LC 11), 6=-7 (LC 12), 7=-14

(LC 15), 8=-28 (LC 15), 9=-4 (LC

11)

Max Grav 2=132 (LC 2), 6=58 (LC 2), 7=172

(LC 2), 8=162 (LC 2), 9=132 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-43/21, 3-4=-117/78, 4-5=-63/55, 5-6=-49/55

BOT CHORD 2-8=-52/57, 7-8=-52/57, 6-7=-52/57

WEBS 4-7=-129/117, 3-8=-119/141

NOTES

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33

- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- * 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 RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6, 2, 7, and 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandrain, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	544457040
20010097-A	PB1	Piggyback	10	1	Job Reference (optional)	E14157646

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:33 ID:8pAAku6G3U797Xe7i383 nzciiz-AK46UrikHiLWgOGDLR0aBKUwXs iilbxMwvdQYizcieu

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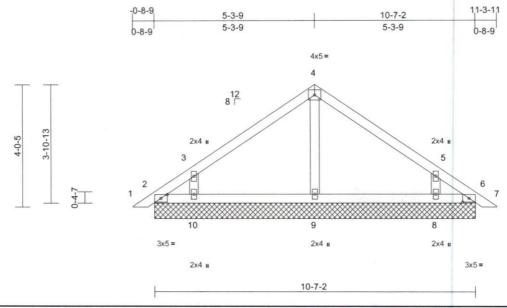


Plate Offsets (X, Y): [2:0-2-9,0-1-8], [6:0-2-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/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/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	15	n/a	n/a	1	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		Canada Canada						
BCDL	10.0	2.6000078		processing and the second							Weight: 44 lb	FT = 20%

LUMBER

Scale = 1:36.7

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 (size)

2=10-7-2, 6=10-7-2, 8=10-7-2, 9=10-7-2, 10=10-7-2, 11=10-7-2,

15=10-7-2

Max Horiz 2=-76 (LC 11), 11=-76 (LC 11) Max Uplift 2=-32 (LC 9), 6=-18 (LC 10), 8=-64 (LC 14), 10=-64 (LC 13), 11=-32

(LC 9), 15=-18 (LC 10)

Max Grav 2=52 (LC 26), 6=41 (LC 19), 8=301 (LC 26), 9=266 (LC 2), 10=302 (LC

25), 11=52 (LC 26), 15=41 (LC 19)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-78/74, 3-4=-115/80, 4-5=-112/80, 5-6=-60/60, 6-7=0/20

BOT CHORD 2-10=-21/51, 9-10=-20/51, 8-9=-20/51,

6-8=-20/51

WEBS 4-9=-179/29, 3-10=-270/189, 5-8=-270/189

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33

- Truss designed for wind loads in the plane of the truss only. For stude 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- * 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 RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPL1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 property 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	PB1GE	Piggyback	1	1	Job Reference (optional)	E14157647

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:33 ID:8pAAku6G3U797Xe7j383_nzcjiz-AK46UrikHjLWgOGDLR0aBKUyds?IlbNMwvdQYizcieu

Page: 1

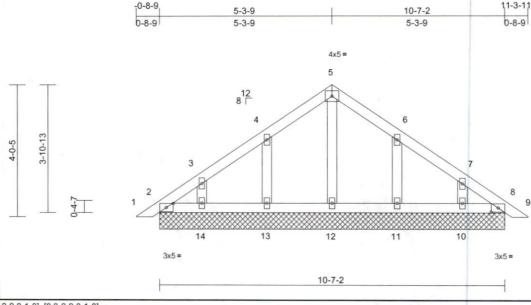


Plate Offsets (X, Y): [2:0-2-9,0-1-8], [8:0-2-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	1/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	n/a	(100)	n/a	-	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	Vert(CT)	n/a	-	n/a	999	20	244/100
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH	 						
BCDL	10.0	Too Salahan			1					Weight: 50 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.

2=10-7-2, 8=10-7-2, 10=10-7-2, REACTIONS (size) 11=10-7-2, 12=10-7-2, 13=10-7-2, 14=10-7-2, 15=10-7-2, 19=10-7-2

Max Horiz 2=-76 (LC 11), 15=-76 (LC 11)

Max Uplift 2=-12 (LC 9), 10=-27 (LC 14), 11=-33 (LC 14), 13=-33 (LC 13),

14=-28 (LC 13), 15=-12 (LC 9)

Max Grav 2=82 (LC 26), 8=81 (LC 2), 10=144 (LC 26), 11=179 (LC 26), 12=125 (LC 2), 13=179 (LC 25), 14=145 (LC 25), 15=82 (LC 26), 19=81 (LC

2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/20, 2-3=-62/56, 3-4=-71/44,

4-5=-86/88, 5-6=-86/88, 6-7=-51/23,

7-8=-41/39, 8-9=0/20

BOT CHORD 2-14=-39/64, 13-14=-39/64, 12-13=-39/64, 11-12=-39/64, 10-11=-39/64, 8-10=-39/64

WEBS 5-12=-85/0, 4-13=-141/95, 3-14=-115/76,

6-11=-141/95, 7-10=-115/76

NOTES

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads
- All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

ORT SEAL 036322 A. GILBE

March 9,2020

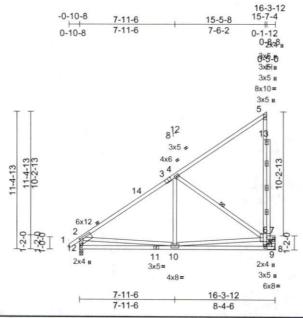
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev, 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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 properly 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 Composition available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	9
20010097-A	T1	Half Hip	3	1	Job Reference (optional)	E14157648

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Page: 1



Scale = 1:92.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.02	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	ВС		Vert(CT)		10-12	>999	180		211/100
TCDL	10.0	Rep Stress Incr	NO	WB		Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH	0.02	1.0.2(01)	0.02	·	THE	TI/G		
BCDL	10.0			The state of the s							Weight: 129 lb	ET - 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 6-7:2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2 *Except* 7-8,8-6,12-2:2x4 SP

No.3 BRACING

TOP CHORD

Structural wood sheathing directly applied or

4-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9, 6-7.

BOT CHORD Rigid ceiling directly applied or 6-2-4 oc

bracing.

WEBS 1 Row at midpt 4-6

REACTIONS (size) 8= Mechanical, 12=0-3-8 Max Horiz 12=588 (LC 15)

Max Uplift 8=-251 (LC 15)

Max Grav 8=1608 (LC 39), 12=781 (LC 35)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/43, 2-14=-910/14, 3-14=-680/38,

3-4=-641/42, 4-5=-294/236, 6-9=0/133,

6-13=-1094/331, 5-13=-1095/332,

6-7=-76/31, 7-8=-524/353, 2-12=-711/121 11-12=-898/1015, 10-11=-898/1015,

9-10=-217/862, 8-9=-161/822 WEBS

4-10=0/216, 4-6=-767/259, 6-10=-623/319,

6-8=-1384/295, 2-10=-211/456

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) -0-10-8 to 16-2-0 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=1.33

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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 251 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2015 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.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 795 Ib down and 115 lb up at 15-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-48, 2-5=-48, 6-7=-58, 8-12=-20

Concentrated Loads (lb)

Vert: 5=-606



March 9,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MTek® 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

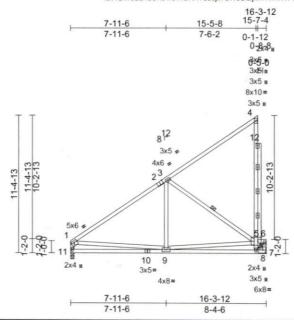
**ANSITPH Quality Criteria, DSB-89 and BCSI Building Composite Property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSITPH Quality Criteria, DSB-89 and BCSI Building Composite Property damage. For general guidance regarding the fabrication available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	78.76
20010097-A	T1A	Half Hip	6	1	Job Reference (optional)	E14157649

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:34 ID:4Clw9a8Xb6NtNroVrUAX4Czcjix-eWeUiBjM11TNIYrPu8XpjX0vLGEc1vGW9ZMz48zciet



Scale = 1:92.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC		Vert(LL)	0.02	8-9	>999	A SECTION	MT20	244/190	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.09	9-11	>999	180		2111100	
TCDL	10.0	Rep Stress Incr	NO	WB		Horz(CT)	0.02	7	n/a	n/a	l		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH					lieters.	1.0.50	1		
BCDL	10.0										Weight: 128 lb	FT = 20%	

LUMBER

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

WEBS 2x4 SP No.2 *Except* 6-7,11-1,7-5:2x4 SP

No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8. 5-6.

BOT CHORD Rigid ceiling directly applied or 6-3-14 oc

bracing.

WEBS 1 Row at midpt 3-5

REACTIONS (size) 7= Mechanical, 11=0-3-8 Max Horiz 11=596 (LC 13)

Max Uplift 7=-265 (LC 13)

Max Grav 7=1479 (LC 24), 11=672 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-778/14, 2-3=-518/18, 3-4=-316/257, 5-8=0/132, 5-12=-1012/342, 4-12=-1012/343,

5-6=-74/32, 6-7=-534/363, 1-11=-602/61

BOT CHORD 10-11=-859/944, 9-10=-859/944,

8-9=-215/861, 7-8=-166/750

WEBS 3-9=0/205, 5-9=-634/331, 1-9=-130/410,

5-7=-1252/303, 3-5=-693/264

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 0-1-12 to 16-2-0 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=1.33

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 780 lb down and 115 lb up at 15-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

 Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-4=-48, 5-6=-58, 7-11=-20

Concentrated Loads (lb) Vert: 4=-606 (F) SEAL 036322

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and his for an individual building component, not a truss systems. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

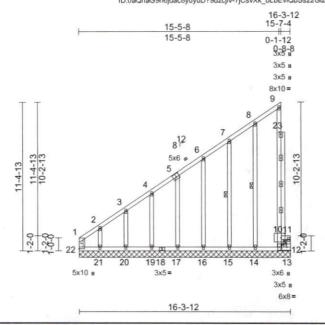


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	T1AGE	Half Hip Supported Gable	1	1	Job Reference (optional)	E14157650

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:35 ID:0aQhaG9n6jdac8yuyuD?9dzcjiv-7jCsvXk_oLbEviQbSs22GlZ91gbmmTVfND6Xcbzcies

Page:



Scale = 1:85.6

Plate Offsets (X, Y): [5:0-3-0,0-3-0], [10:0-3-8,0	0-4-0]	, [23:0-2-0,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.18	Horiz(TL)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0			Commence to appropriate and a second second second second							Weight: 142 lb	FT = 20%

LUMBER	

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

WEBS 2x4 SP No.3 *Except* 9-13.10-23:2x4 SP

No.2

OTHERS 2x4 SP No.2 *Except* 19-4,20-3,21-2:2x4 SP

BRACING

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

2-0-0 oc purlins (10-0-0 max.): 10-13, 10-11.

BOT CHORD

Rigid ceiling directly applied or 9-1-1 oc bracing 8-14, 7-15

WEBS

1 Row at midpt 12=16-3-12, 13=16-3-12,

REACTIONS (size)

14=16-3-12, 15=16-3-12, 16=16-3-12, 17=16-3-12, 19=16-3-12, 20=16-3-12,

21=16-3-12, 22=16-3-12

Max Horiz 22=463 (LC 14)

Max Uplift 12=-603 (LC 14), 13=-230 (LC 10),

22=-99 (LC 11)

Max Grav 12=486 (LC 12), 13=879 (LC 27),

19=158 (LC 24), 20=165 (LC 29),

21=215 (LC 24), 22=441 (LC 13)

Tension

14=-55 (LC 13), 15=-26 (LC 13), 16=-30 (LC 13), 17=-32 (LC 13),

19=-32 (LC 13), 21=-284 (LC 13),

14=179 (LC 24), 15=158 (LC 24), 16=174 (LC 24), 17=165 (LC 24),

(lb) - Maximum Compression/Maximum

TOP CHORD 1-22=-473/384, 1-2=-692/593, 2-3=-543/467, 3-4=-496/428, 4-5=-441/382, 5-6=-382/336,

6-7=-322/285, 7-8=-267/243, 8-9=-181/160, 10-13=-1010/505, 10-23=-732/220,

9-23=-732/220, 10-11=-59/70,

11-12=-265/287

BOT CHORD 21-22=-177/163, 20-21=-177/163,

19-20=-177/163, 18-19=-177/163, 17-18=-177/163, 16-17=-175/159 15-16=-175/159, 14-15=-175/159,

13-14=-175/159, 12-13=-423/394

WEBS 8-14=-183/130, 7-15=-127/87, 6-16=-134/83, 5-17=-133/89, 4-19=-118/76, 3-20=-126/70, 2-21=-267/251, 10-12=-576/608

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 0-1-12 to 16-2-0 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10. Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing

- 8) 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.
- 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22, 13, 14, 15, 16, 17, 19, and 21. This connection is for uplift only and does not consider lateral forces.
- 12) One RT8A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



FORCES

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 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/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	F44457050
20010097-A	T1AGE	Half Hip Supported Gable	1	1	Job Reference (optional)	E14157650

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15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-9=-48, 10-11=-58, 12-22=-20
 Concentrated Loads (lb)
 Vert: 9=-606 (F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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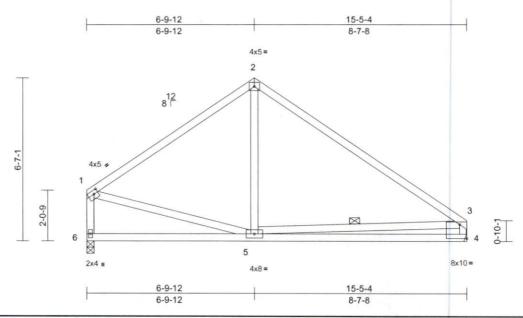
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	T2	Common	9	1	Job Reference (optional)	E14157651

Run: 8.33 S. Feb 13 2020 Print: 8.330 S. Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:35 ID:0JuF0Sy77VU?4X8dTqP0z1zcjjA-7jCsvXk_oLbEviQbSs22GIZ5JgZKmUzfND6Xcbzcies

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Scale = 1:45

Plate Offsets (X, Y): [1:Edge,0-1-12], [4:Edge,0-6-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.01	4-5	>999		MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	ВС		Vert(CT)	-0.15	4-5	>999	180		2.0.00
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	4	n/a	n/a	l	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		, ,					1	
BCDL	10.0										Weight: 85 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 2-3:2x4 SP No.1

BOT CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 6-1,4-3:2x4 SP No.3 WERS

BRACING TOP CHORD

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

3-5

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

WEBS 1 Row at midpt

REACTIONS (size) 4= Mechanical, 6=0-3-8

Max Horiz 6=-143 (LC 11)

Max Grav 4=606 (LC 2), 6=606 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-599/137, 2-3=-634/127, 1-6=-558/132,

3-4=-525/148

BOT CHORD 5-6=-129/178, 4-5=-183/491 2-5=0/139, 1-5=0/375, 3-5=-210/219

WEBS

1)

NOTES Unbalanced roof live loads have been considered for

- this design. Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- 4) * 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.
- 5) Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

SEAL 036322 March 9,2020

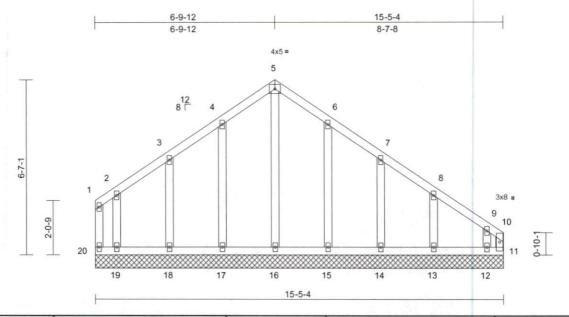
A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	511157050
20010097-A	T2GE	Common Supported Gable	1	1	Job Reference (optional)	E14157652

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Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 0.12 n/a Snow (Pf/Pg) 13 9/20 0 Lumber DOL 1 15 BC 0.08 Vert(TL) n/a TCDL 10.0 Rep Stress Incr YES WR 0.11 Horiz(TL) 0.00 11 BCLL 0.0 Code IRC2015/TPI2014 Matrix-MR

n/a 999 MT20 n/a 999 n/a n/a

L/d

PLATES

I/defl

GRIP 244/190

FT = 20% Weight: 94 lb

LUMBER

BCDL

WERS

Scale = 1:41.9

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

OTHERS 2x4 SP No.3 *Except* 16-5:2x4 SP No.2

10.0

BRACING TOP CHORD

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

BOT CHORD bracing.

REACTIONS (size)

11=15-5-4, 12=15-5-4, 13=15-5-4, 14=15-5-4, 15=15-5-4, 16=15-5-4, 17=15-5-4, 18=15-5-4, 19=15-5-4, 20=15-5-4

Max Horiz 20=-143 (LC 9)

Max Uplift 11=-213 (LC 12), 12=-160 (LC 9), 13=-29 (LC 14), 14=-31 (LC 14), 15=-29 (LC 14), 17=-29 (LC 13),

18=-32 (LC 13), 19=-61 (LC 10),

20=-51 (LC 11)

Max Grav 11=224 (LC 9), 12=243 (LC 25), 13=170 (LC 25), 14=164 (LC 25), 15=175 (LC 25), 16=156 (LC 25), 17=171 (LC 24), 18=170 (LC 24),

19=170 (LC 24), 20=56 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-27/20, 1-2=-31/28, 2-3=-74/80,

3-4=-127/142, 4-5=-175/199, 5-6=-175/199, 6-7=-126/142, 7-8=-111/108, 8-9=-123/110,

9-10=-166/153, 10-11=-140/128

19-20=-106/117, 18-19=-106/117, **BOT CHORD**

17-18=-106/117, 16-17=-106/117, 15-16=-106/117, 14-15=-106/117,

13-14=-106/117, 12-13=-106/117,

11-12=-106/117

WEBS

5-16=-162/83, 4-17=-131/81, 3-18=-135/89, 2-19=-113/73, 6-15=-135/81, 7-14=-129/85, 8-13=-132/85, 9-12=-148/112

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20, 11, 17, 18, 19, 15, 14, 13, and 12. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2015 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	5 PBC-Roof	
20010097-A	T3	Common	5	1	Job Reference (optional)	E14157653

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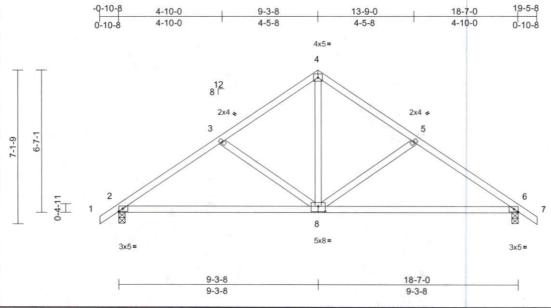


Plate Offsets (X, Y): [6:0-2-4, Edge], [8:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.03	8-11	>999	240	MT20	244/190	
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.16	8-11	>999	180	11000000		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.02	6	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		, ,							
BCDL	10.0										Weight: 89 lb	FT = 20%	

LUMBER

Scale = 1:51.6

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-6 oc purlins

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

REACTIONS (size)

(size) 2=0-3-8, 6=0-3-8 Max Horiz 2=-134 (LC 11)

Max Uplift 2=-2 (LC 13), 6=-2 (LC 14)

Max Grav 2=796 (LC 2), 6=796 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/37

1-2=0/37, 2-3=-1023/211, 3-4=-787/180,

4-5=-787/1

4-5=-787/180, 5-6=-1023/211, 6-7=0/37 2-8=-82/827, 6-8=-84/822

BOT CHORD WEBS

4-8=-79/571, 3-8=-318/168, 5-8=-317/168

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Cl=1.10

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 5) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

SEAL 036322

WGINEER March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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

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available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	F
20010097-A	T3GE	Common Supported Gable	1	1	Job Reference (optional)	E14157654
Carter Components (Sant	ford) Sanford NC - 27332	Run: 8.33 S. F	eb 13 2020 Print	8.330 S Feb	13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:36	Page: 1

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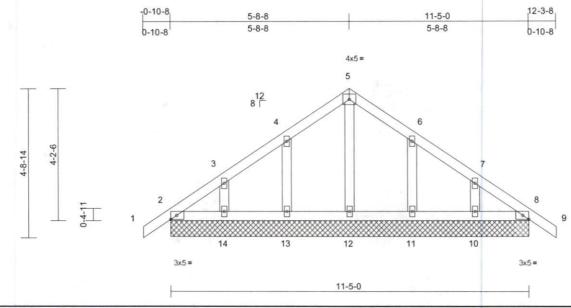


Plate Offsets (X, Y): [8:0-2-4, Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/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/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	19	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		,						
BCDL	10.0			0.0000000000000000000000000000000000000							Weight: 56 lb	FT = 20%

LUMBER

Scale = 1:35.4

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 (size) 2=11-5-0, 8=11-5-0, 10=11-5-0, 11=11-5-0, 12=11-5-0, 13=11-5-0, 14=11-5-0, 15=11-5-0, 19=11-5-0

Max Horiz 2=87 (LC 12), 15=87 (LC 12)

Max Uplift 2=-10 (LC 9), 10=-28 (LC 14),

11=-32 (LC 14), 13=-32 (LC 13), 14=-28 (LC 13), 15=-10 (LC 9)

Max Grav 2=133 (LC 2), 8=133 (LC 2), 10=152 (LC 26), 11=177 (LC 26),

12=125 (LC 2), 13=177 (LC 25), 14=153 (LC 25), 15=133 (LC 2),

19=133 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/37, 2-3=-69/59, 3-4=-73/47, 4-5=-95/99, 5-6=-95/99, 6-7=-51/34,

7-8=-46/40, 8-9=0/37

BOT CHORD

2-14=-46/80, 13-14=-46/80, 12-13=-46/80, 11-12=-46/80, 10-11=-46/80, 8-10=-46/80 5-12=-86/0, 4-13=-139/93, 3-14=-128/78,

6-11=-138/93, 7-10=-128/78

WEBS NOTES

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 15.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 9,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTE&® 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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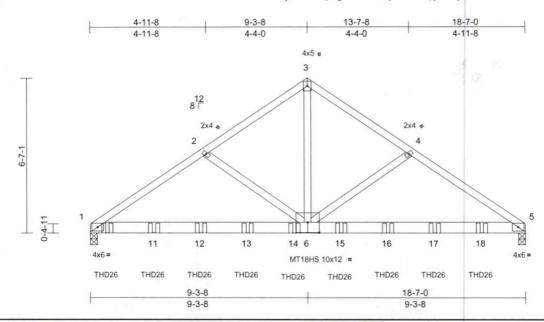


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	T3GR	Common Girder	1	2	Job Reference (optional)	E14157655

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:36 ID:F2xfvX3m?GdjfwKLUD37qxzcjj1-bvmF7tkcZej5Xr?o0ZZHpy6HJ4rvVr0octr481zcier

Page: 1



Scale = 1:47.4

Plate Offsets	(X, Y):	[6:0-6-0,0-5-4]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC		Vert(LL)	-0.15	6-8	>999	10000	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	ВС	0.76	Vert(CT)	-0.30	6-8	>741	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.03	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 202 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x4 SP No.2 WERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-5-2 oc purlins.

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

REACTIONS (size)

1=0-3-8. 5=0-3-8

Max Horiz 1=-123 (LC 28)

Max Grav 1=3545 (LC 2), 5=3217 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-2=-4590/0, 2-3=-3806/0, 3-4=-3806/0, TOP CHORD

4-5=-4092/0

BOT CHORD 1-11=0/3424, 11-12=0/3424, 12-13=0/3424,

13-14=0/3424, 6-14=0/3424, 6-15=0/3420,

15-16=0/3420, 16-17=0/3420, 17-18=0/3420,

5-18=0/3420

3-6=0/3938, 2-6=-427/68, 4-6=-423/70

WEBS NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph: TCDL=6.0psf: BCDL=6.0psf: h=25ft: Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- All plates are MT20 plates unless otherwise indicated.
 * 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.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left end to 16-8-12 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-48, 3-5=-48, 1-5=-20

Concentrated Loads (lb)

Vert: 8=-496 (B), 11=-493 (B), 12=-493 (B), 13=-493 (B), 14=-493 (B), 15=-493 (B), 16=-493 (B), 17=-493

(B), 18=-493 (B)



March 9,2020

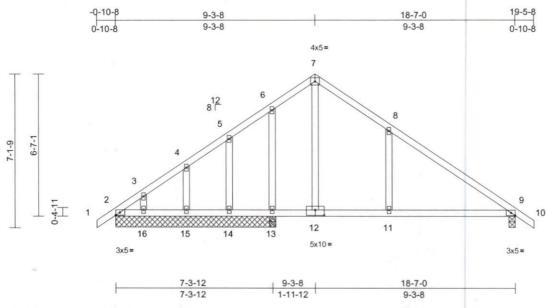
Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/IPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	T3SE	Common Structural Gable	1	1	Job Reference (optional)	E14157656

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:37 ID:nsNHhB28EyVs1mm9xVYuHjzcjj2-35KdKClFKyry9?a_aG4WLAeTTU99ENjyrXbdhTzcieq

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Plate Offsets (X	Y)	[9:0-2-4 Edge]	[12-0-5-0 0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.25	11-22	>551	240	MT20	244/190	
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.50	11-22	>270	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	13	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH									
BCDL	10.0					l					Weight: 95 lb	FT = 20%	

LUMBER

Scale = 1:51.6

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WERS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-2 oc purlins.

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

bracing.

REACTIONS (size) 2=7-5-8, 9=0-3-8, 13=7-5-8, 14=7-5-8, 15=7-5-8, 16=7-5-8,

17=7-5-8

Max Horiz 2=-134 (LC 11), 17=-134 (LC 11) Max Uplift 2=-11 (LC 14), 9=-33 (LC 14), 13=-288 (LC 26), 14=-41 (LC 13),

15=-27 (LC 13), 16=-32 (LC 13),

17=-11 (LC 14)

Max Grav 2=631 (LC 26), 9=833 (LC 26), 13=97 (LC 14), 14=198 (LC 2),

15=170 (LC 25), 16=101 (LC 29),

17=631 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/37, 2-3=-929/41, 3-4=-932/88,

4-5=-926/147, 5-6=-918/210, 6-7=-847/244, 7-8=-851/237, 8-9=-909/127, 9-10=0/37

2-16=0/669, 15-16=0/669, 14-15=0/669,

13-14=0/669, 12-13=0/669, 11-12=0/669,

9-11=0/669

7-12=-150/623, 8-11=-171/150, 6-13=-86/63, 5-14=-137/91, 4-15=-133/83, 3-16=-104/66

WEBS

NOTES

TOP CHORD

BOT CHORD

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads
- All plates are 2x4 MT20 unless otherwise indicated
- 7) Gable studs spaced at 2-0-0 oc.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 9, 13, 14, 15, and 16. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1

LOAD CASE(S) Standard



March 9,2020

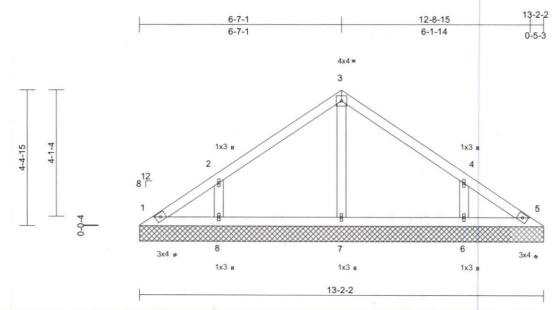
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/for 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	V1	Valley	1	1	Job Reference (optional)	E14157657

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:37 ID:nsNHhB28EyVs1mm9xVYuHjzcjj2-35KdKCIFKyry9?a_aG4WLAecgULfEOpyrXbdhTzcieq

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/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/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a		n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-SH		, , , ,							
BCDL	10.0	10 to									Weight: 51 lb	FT = 20%	

LUMBER

Scale = 1:36.2

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 (size) 1=13-2-2, 5=13-2-2, 6=13-2-2, 7=13-2-2, 8=13-2-2

Max Horiz 1=81 (LC 12)

Max Uplift 1=-13 (LC 9), 6=-62 (LC 14), 8=-62

(LC 13)

Max Grav 1=77 (LC 25), 5=65 (LC 24), 6=310

(LC 25), 7=266 (LC 2), 8=310 (LC

24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-85/67, 2-3=-117/88, 3-4=-111/88,

4-5=-63/38

1-8=-20/48, 7-8=-20/48, 6-7=-20/48,

BOT CHORD 5-6=-20/48

WEBS 3-7=-181/15, 2-8=-244/161, 4-6=-244/161

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20 Onsf. 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 RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 8, and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

SEAL A. GILBE A. GILL March 9,2020

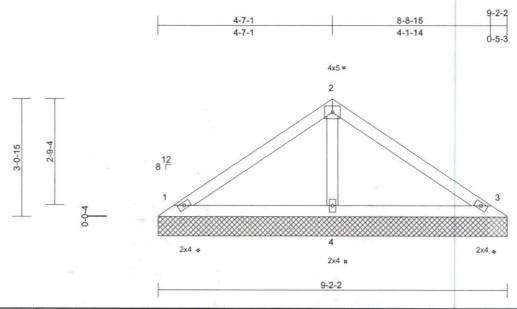
A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 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/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	V2	Valley	1	1	Job Reference (optional)	E14157658

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:37 ID:nsNHhB28EyVs1mm9xVYuHjzcjj2-35KdKClFKyry9?a_aG4WLAeb3UKXEP3yrXbdhTzcieq

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Scale = 1:29.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/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/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	- 2	n/a	999	200000000000000000000000000000000000000		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-SH	1011.750.5					10,000			
BCDL	10.0										Weight: 32 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 (size) 1=9-2-2, 3=9-2-2, 4=9-2-2

Max Horiz 1=55 (LC 12)

Max Uplift 1=-7 (LC 13), 3=-12 (LC 14)

Max Grav 1=159 (LC 2), 3=159 (LC 2), 4=344

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-113/53, 2-3=-111/53

BOT CHORD 1-4=-8/44, 3-4=-8/44

WEBS 2-4=-204/67

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) One RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

SEAL 036322

NGINEER A. GILBERT

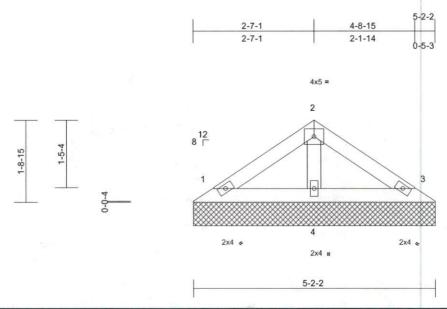


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	5 PBC-Roof	
20010097-A	V3	Valley	1	1	Job Reference (optional)	E14157659

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:31:37 ID:nsNHhB28EyVs1mm9xVYuHjzcjj2-35KdKCIFKyry9?a_aG4WLAed8UMUEPVyrXbdhTzcieq

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Scale = 1:23.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a		n/a	999	MT20	244/190	
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	- 1	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P						1			
BCDL	10.0		2010-1400-1-1000-1-1000-1-1000-1-1000-1-1000-1-1000-1-1000-1-1000-1-1000-1-1000-1-1000-1-1000-1-1000-1-1000-1								Weight: 17 lb	FT = 20%	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-14 oc purlins.

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

bracing.

REACTIONS (size) 1=5-2-2, 3=5-2-2, 4=5-2-2

Max Horiz 1=28 (LC 12)

Max Uplift 1=-8 (LC 13), 3=-10 (LC 14)

Max Grav 1=92 (LC 2), 3=92 (LC 2), 4=157

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-53/28, 2-3=-50/28

BOT CHORD 1-4=-5/22, 3-4=-5/22

WEBS 2-4=-104/41

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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 RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

SEAL A. GILB A. GIL March 9,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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

ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

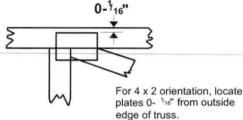


Symbols

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.



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:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

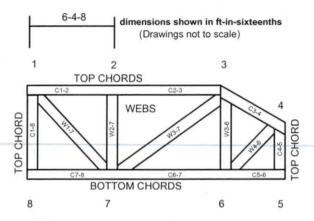
Design Standard for Bracing. DSB-89:

BCSI:

Building Component Safety Information, Guide to Good Practice for Handling,

Installing & Bracing of Metal Plate Connected Wood Trusses.

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. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 2. 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.
- 3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. 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.
- 7. 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.
- 9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. 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.
- 14. 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.
- 16. 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 environmental, health or performance risks. Consult with project engineer before use.
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.