

**REACTIONS.** All bearings 47-2-0.

(lb) - Max Horz 2=247(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 31, 2, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33 except 32=-140(LC 17) Max Grav All reactions 250 lb or less at joint(s) 31, 2, 2, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32

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

TOP CHORD 2-3=-272/223, 10-11=-139/272, 11-12=-171/296, 12-13=-202/317, 13-14=-245/356, 14-15=-219/301, 15-16=-202/274, 16-17=-252/360, 17-18=-207/303, 18-57=-159/266, 19-57=-176/260

# NOTES-

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

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 23-9-4, Corner(3) 23-9-4 to 26-7-4, Exterior(2) 26-7-4 to 47-0-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10; Min. flat roof snow load governs.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 2, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33 except (jt=lb) 32=140.
- 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.



Job	Truss	Truss Type	Qty	Ply	
MANDALYN PLAN	A2	Roof Special	2	1	Job Reference (optional)
Builders FirstSource, Albemarle , NC 28001			un: 8.240 s Apr 6 ):ZBwJdEBqawl	2019 Print: KqNtDHrC	8.240 s Apr 6 2019 MiTek Industries, Inc. Thu Jul 25 12:06:30 2019 Page 2 0xclcy95Zd-qoJINRzBK3QTnY87bcwB1KekHSe5pAEHtgUr9UyuY7t



Job	Truss	Truss Type	Qty	Ply	
MANDALYN PLAN	A2A	ROOF SPECIAL	4	1	Job Reference (optional)
Builders FirstSource, Albemarle , NC 28001			Run: 8.240 s Apr 6 ID:ZBwJdEBqa	2019 Print: wKqNtDF	8.240 s Apr 6 2019 MiTek Industries, Inc. Thu Jul 25 12:06:30 2019 Page 2 IrQxclcy95Zd-qoJINRzBK3QTnY87bcwB1KelvSckp6rHtgUr9UyuY7t

LOAD CASE(S) Standard 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-6=-51, 6-23=-51, 2-11=-20 Trapezoidal Loads (plf) Vert: 23=-99-to-9=-114, 9=-114-to-10=-125



0-Q-8	11-10-10	35-7-14	39-0-7	47-6-0
0-0-8	11-10-2	23-9-4	3-4-9	8-5-9
Plate Offsets (X,Y) [2:0-0-9	),0-0-14], [11:Edge,0-2-0], [12:0-1-12,0	-2-8]		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI.         DEFL.           TC         0.85         Vert(LL)           BC         0.73         Vert(CT)           WB         0.69         Horz(CT)           Matrix-SH         Horz(CT)	in (loc) l/defl L/d -0.21 15-16 >999 240 -0.40 15-16 >999 180 0.10 11 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 372 lb         FT = 20%
LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 *I W7: 2x4 SP No.3	Except* o.2	BRACING- TOP CHORD S BOT CHORD F WEBS 1	Structural wood sheathing directly a end verticals. Rigid ceiling directly applied or 10-0 1 Row at midpt 5-16, 7-1	applied or 3-4-0 oc purlins, except )-0 oc bracing. 5, 6-16, 6-15
			MiTek recommends that Stabilizer installed during truss erection, in a Installation guide.	rs and required cross bracing be accordance with Stabilizer

REACTIONS. (Ib/size) 2=1724/0-3-8 (min. 0-3-1), 11=1671/0-3-8 (min. 0-2-15) Max Horz 2=245(LC 16) Max Uplift2=-117(LC 16), 11=-104(LC 17) Max Grav2=1950(LC 2), 11=1888(LC 2)

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

TOP CHORD´ 2-19=-3407/227, 3-19=-3289/257, 3-4=`3048/142, 4-5='2931/176, 5-20=-2548/222, 20-21=-2439/245, 6-21=-2429/263, 6-22=-2420/247, 22-23=-2436/227, 7-23=-2538/206, 7-8=-2839/209, 8-24=-2906/189, 9-24=-2995/186, 9-25=-2841/150, 10-25=-2891/134, 10-11=-1798/145

- BOT CHORD 2-18=-396/3065, 18-26=-175/2487, 17-26=-175/2487, 17-27=-175/2487, 16-27=-175/2487, 16-28=-19/1828, 28-29=-19/1828, 15-29=-19/1828, 15-30=-33/2376, 14-30=-33/2376, 14-31=-33/2376, 12-13=-105/2781 WEBS 9-12=-772/122, 10-12=-94/2818, 5-16=-814/271, 5-18=0/530, 3-18=-486/252,
- 7-15=-762/268, 7-13=-56/498, 9-13=-460/112, 6-16=-174/1125, 6-15=-148/1062

# NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 23-9-4, Exterior(2) 23-9-4 to 26-9-4, Interior(1) 26-9-4 to 47-4-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10; Min. flat roof snow load governs.

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit

between the bottom chord and any other members, with BCDL = 10.0psf.

8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.

9) 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.





Job	Truss	Truss Type	Qty	Ply	
MANDALYN PLAN	A5-2	ROOF TRUSS	2	2	Job Reference (optional)
Builders FirstSource, Albemarle , NC 28001			40 s Apr 6 BwJdEBqa	2019 Print wKqNtDI	8.240 s Apr 6 2019 MiTek Industries, Inc. Thu Jul 25 12:06:33 2019 Page 2 HrQxclcy95Zd-EN?R?T03d_o2e?thGkUufzGDxfkU0ZDjZdiVlpyuY7q

# NOTES-

10) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18.
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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



<sup>32, 33, 34, 35, 36, 37, 24, 23, 22, 21.
11)</sup> 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.



Job	Truss	Truss Type	Qty	Ply		
MANDALYN PLAN	B1	GABLE	1	1		
Builders EirstSource Albemar	Lo. NC 28001			2010 Print: 8	Job Reference (optio	nal)
Builders FirstSource, Albeman	ie , NG 2000 I	0-3-8 6-6-8 -0-11-0 3-11-12 5-10-12 9-11-8 0-11-0 3-8-4 1-11-0 3-5-0 0-3-8 0-7-12	$\begin{array}{c c} \text{Ruft} 8.240 & \text{Apr} & \text{C} \\ \text{ID:ZBwJdEBqaw} & 11 \\ \hline 3 & 13-4-8 & 14-0-4 \\ \hline 3-5-0 & 0-7-12 \\ \hline 5x5 = & 1 \end{array}$	5 2019 Print: 6 vKqNtDHrQ: 5-11-4 <u>19-</u> 2 3-6 -11-0	5.240 5 401 6 32019 Mill xclcy95Zd-fxhZdV2y 20-10-0 <u>-7-8 19-11-0</u> 8-4 0-3-8 0-11-0	wwBdVTcGxs1bHbunwtgPDzw9Fbx9M8yuY7n Scale = 1:81.3 Camber = 1/16 in
	13.2.0 	2x4    $2x4 =$ $12.00   12   4   513   2x4   $ $2x4      1.5x4      1.5x4      7   7   7   7   7   7   7   7   7$	5 2x4   w5 sw4 st13 15 1.5x4       1.5x4    11-8-0 12 7x8 =	$ \begin{array}{c}             2x4 = \\             6 \\             V3 \\             V3 \\           $	x4    2x4    1 2x4    1 1 1 1 2 5x5 1 1 1 1 2 5x5 1 1 1 1 2 5 1 2 5 1 1 1 1 1 1 1 1 1 1 1	
		<u>3-11-12</u> <u>9-11-8</u> 3-11-12 <u>5-11-12</u>	15-11-4	19-	-11-0	
Plate Offsets (X,Y) [2:0	)-2-0,0-1-12], [8:0-2-0,0-1-12	], [11:0-7-0,0-2-8], [13:0-7-0,0-2-8]	5-11-12	0-1	1-12	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/1	2-0-0         CSI.           1.15         TC         0.70           1.15         BC         0.79           YES         WB         0.34           Pl2014         Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT) Attic	in () -0.20 11 -0.29 11 ) 0.01 -0.13 11	loc) l/defl L/d  -13 >999 240  -13 >814 180 10 n/a n/a  -13 1079 360	PLATES         GRIP           MT20         244/190           Weight: 219 lb         FT = 20%
			BRACING-			
TOP CHORD 2x6 SP N BOT CHORD 2x10 SP N WEBS 2x4 SP N OTHERS 2x4 SP N	5.2 No.2 5.3 5.3		TOP CHORD BOT CHORD JOINTS	Structural end vertic Rigid ceili 1 Brace a	l wood sheathing dii cals. ing directly applied o t Jt(s): 15	ectly applied or 5-1-5 oc purlins, except or 10-0-0 oc bracing.
				MiTek re installed Installati	ecommends that Sta I during truss erection ion guide.	abilizers and required cross bracing be on, in accordance with Stabilizer
REACTIONS. (lb/size) Max Horz Max Grav	14=933/0-3-8 (min. 0-2-1), 14=-229(LC 12) 14=1304(LC 28), 10=1304(I	10=933/0-3-8 (min. 0-2-1) .C 27)				
FORCES.         (lb) - Max. Co           TOP CHORD         2-3=-12           BOT CHORD         12-13=0           WEBS         7-11=-9	omp./Max. Ten All forces 2 13/0, 3-4=-775/103, 6-7=-77 /768, 11-12=0/768 5/556, 3-13=-95/556, 4-15=-	50 (lb) or less except when shown. 5/103, 7-8=-1213/0, 2-14=-1511/0, 8 718/134, 6-15=-718/134, 2-13=0/904	-10=-1510/0 4, 8-11=0/905			
NOTES- 1) Unbalanced roof live I 2) Wind: ASCE 7-10; Vul (envelope) gable end to 20-10-0 zone; canti grip DOL=1.60 3) Truss designed for wi End Details as applica 4) TCLL: ASCE 7-10; Pr Lumber DOL=1.15 Pla 5) This truss has been do non-concurrent with of 6) Gable studs spaced a 7) This truss has been do 8) * This truss has been do 8) * This truss has been do 8) * This truss has been do 9) Ceiling dead load (5.0 10) Bottom chord live load 11) This truss is designe standard ANSI/TPI 1 12) Attic room checked for	bads have been considered t=120mph (3-second gust) V zone and C-C Corner(3) -0-1 lever left and right exposed ; nd loads in the plane of the t ble, or consult qualified build =20.0 psf (roof live load: Lun te DOL=1.15); Category II; f asigned for greater of min roo ther live loads. t 2-0-0 oc. asigned for a 10.0 psf bottom designed for a 10.0 psf bottom designed for a live load of 20 nord and any other members psf) on member(s). 3-4, 6-7 d (40.0 psf) and additional b d in accordance with the 201 or L/360 deflection.	for this design. (asd=95mph; TCDL=6.0psf; BCDL=6 1-0 to 2-1-0, Exterior(2) 2-1-0 to 9-1 C-C for members and forces & MWF russ only. For studs exposed to win ling designer as per ANSI/TPI 1. (ber DOL=1.15 Plate DOL=1.15); Pg Exp B; Partially Exp.; Ct=1.10 of live load of 12.0 psf or 1.00 times a chord live load nonconcurrent with 1.0psf on the bottom chord in all area 4-15, 6-15; Wall dead load (5.0psf) ottom chord dead load (5.0psf) 5 International Residential Code sec	6.0psf; h=25ft; Cat 1-8, Corner(3) 9-1 FRS for reactions s ad (normal to the fa 1=20.0 psf (ground flat roof load of 15 any other live load as where a rectang ) on member(s).7- tied only to room. 2 ctions R502.11.1 a	. II; Exp B; 1-8 to 12-1 shown; Lum ace), see SI .4 psf on ov Is. Ile 3-6-0 tal 11, 3-13 11-13 und R802.10	Enclosed; MWFRS 1-8, Exterior(2) 12- aber DOL=1.60 plat tandard Industry Ga =15.4 psf (flat roof s verhangs Il by 2-0-0 wide will 0.2 and referenced	11-8 e how: fit



8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-13

9) 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.

10) Attic room checked for L/360 deflection.



8) 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.

9) Attic room checked for L/360 deflection.



Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
MANDALYN PLAN	B4-2	ATTIC	1	2	Job Reference (optional)
Builders FirstSource, Albemarle , NC 28001			Run: 8.240 s Apr 6 ID:ZBwJdEBqawl	2019 Print: KqNtDHrQ	8.240 s Apr 6 2019 MiTek Industries, Inc. Thu Jul 25 12:06:39 2019 Page 2 Ixclcy95Zd-3WMiFW4qDqZBMwKrc?bIvEWF64fxQIabxZ9pzTyuY7k

LOAD CASE(S) Standard 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-176(F=-100), 2-3=-191(F=-100), 3-4=-176(F=-100), 4-5=-176(F=-100), 5-6=-191(F=-100), 6-7=-176(F=-100), 11-12=-30, 9-11=-45, 8-9=-30, 3-5=-15 Drag: 6-9=-15, 2-11=-15 Concentrated Loads (lb) Vert: 18=-500(F) 19=-400(F)



REACTIONS. (lb/size) 2=168/0-3-8 (min. 0-1-8), 4=168/0-3-8 (min. 0-1-8) Max Horz 2=-54(LC 12) Max Uplift2=-13(LC 14), 4=-13(LC 15) Max Grav2=191(LC 2), 4=191(LC 2)

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

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp; Ct=1.10 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs
- non-concurrent with other live loads.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit 8) between the bottom chord and any other members.

9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

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.



(lb) - Max Horz 2=-54(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8 Max Grav All reactions 250 lb or less at joint(s) 2, 2, 6, 10, 8, 9

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

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp; Ct=1.10 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs
- non-concurrent with other live loads.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit 8) between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 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.



0- <u>0</u> -8 0-0-8							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.54 BC 0.35 WB 0.08 Matrix-P	DEFL.         in           Vert(LL)         0.08           Vert(CT)         -0.11           Horz(CT)         0.00	(loc) l/defl 2-8 >959 2-8 >726 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 42 lb	<b>GRIP</b> 244/190 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		BRACI TOP C BOT C	ING- HORD Structura end verti HORD Rigid ceil MiTek r installed Installa	al wood sheath cals. ling directly ap recommends th d during truss of tion guide.	ing directly a plied or 10-0 nat Stabilize erection, in a	applied or 6-0-0 oc pu )-0 oc bracing. rs and required cross accordance with Stabi	rlins, except bracing be lizer

REACTIONS. All bearings 10-9-0.

(lb) - Max Horz 2=96(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 8, 7 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 2=262(LC 2), 8=550(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-8=-409/239

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 10-7-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10; Min. flat roof snow load governs.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 8, 7.
- 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.



⊢	5-2-4			10-9-0	
Plate Offsets (X,Y) [2:0-2-15	,Edge]			5-0-12	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	<b>CSI.</b> TC 0.42 BC 0.28 WB 0.08 Matrix-P	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl L/d -0.02 5-6 >999 240 -0.05 5-6 >999 180 ) -0.00 5 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 47 lb         FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3		<b>В</b> Т В	OP CHORD	Structural wood sheathing directly a end verticals. Rigid ceiling directly applied or 10-0	applied or 6-0-0 oc purlins, except I-0 oc bracing.
				MiTek recommends that Stabilizer installed during truss erection, in a Installation guide.	s and required cross bracing be accordance with Stabilizer

REACTIONS. (lb/size) 5=151/Mechanical, 2=191/0-3-0 (min. 0-1-8), 6=450/0-3-8 (min. 0-1-8) Max Horz 2=96(LC 12) Max Uplift5=-29(LC 12), 2=-39(LC 12), 6=-60(LC 16)

Max Grav5=180(LC 23), 2=219(LC 2), 6=508(LC 2)

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

WEBS 3-6=-377/138

# NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-7-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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=15.4 psf (flat roof snow:
- Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10; Min. flat roof snow load governs. 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 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.



3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.

8) 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.



REACTIONS. (lb/size) 4=148/6-0-8 (min. 0-1-8), 2=230/6-0-8 (min. 0-1-8), 5=83/6-0-8 (min. 0-1-8) Max Horz 2=58(LC 12) Max Uplift4=-66(LC 16), 2=-66(LC 12)

Max Grav4=175(LC 2), 2=266(LC 2), 5=166(LC 7)

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

## NOTES-

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 5-10-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10; Min. flat roof snow load governs.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 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.