Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T1	Common	1	1	Job Reference (optional)

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:05 Page: 1 ID:fuRN1caGKKU4FLfWeaHu5sz9y3F-qfNTtoOcjGCkl?ftTSfsGjtTSt6RZu1kCQBg84z8MtG



Scale = 1:76.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.50	15-17	>899	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.85	15-17	>528	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 230 lb	FT = 20%

LUMBER TOP CHORD 2 BOT CHORD 2 WEBS 2	x4 SP No.1 x4 SP DSS x4 SP No.3	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 3-2-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. <u>1 Row at midpt</u> 5-15, 7-15
REACTIONS (Ib/s	ize) 2=1536/0-3-8, (min. 0-2-7), 10=-86/0-3-8, (min. 0-1-8), 12=2127/0-3-8, (min. 0-3-6) Horiz 2=189 (LC 10)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
Max Max	: Uplift 2=-232 (LC 11), 10=-209 (LC 22), 12=-231 (LC 11) : Grav 2=1536 (LC 1), 10=27 (LC 21), 12=2127 (LC 1)		
FORCES TOP CHORD	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when showr 2-24=-2713/337, 3-24=-2644/361, 3-4=-2536/353, 4-5=-2395/386, 5-25=-1 7-26=-1461/301, 7-8=-1379/282, 8-9=-1544/249, 9-27=-84/917, 10-27=-10	ı. 462/301, 6-25=-1378/3 1/814	324, 6-26=-1379/323,
BOT CHORD	2-17=-208/2494, 16-17=-92/1862, 16-28=-92/1862, 28-29=-92/1862, 15-29	=-92/1862, 15-30=-18	/1302, 14-30=-18/1302,
WEBS	3-17=-397/189, 5-17=-37/804, 5-15=-814/228, 6-15=-137/912, 7-13=-307/8	39, 9-13=0/1000, 9-12=	-2239/366
NOTES			
1) Unbalanced r	oof live loads have been considered for this design.		
2) Wind: ASCE	7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0p	sf; h=30ft; B=20ft; L=4	3ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional)

and C-C Exterior (2) -1-5-0 to 2-10-2, Interior (1) 2-10-2 to 21-3-8, Exterior (2) 21-3-8 to 25-6-10, Interior (1) 25-6-10 to 44-0-0 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=1.60

3) * 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.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2, 231 lb uplift at joint 12 and 209 lb uplift at joint 10.

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T1A	Common	1	1	Job Reference (optional)

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Scale = 1:74.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.47	14-16	>954	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.80	14-16	>561	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 228 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP DSS WEBS 2x4 SP No.3 REACTIONS (lb/size) 2=1536/0-3-8, (min. 0-2-7), 10=-179/0-3-8, (min. 0-1-8), 11=2138/0-3-8, (min. 0-3-6) Max Horiz 2=187 (LC 10) Max Uplift 2=-231 (LC 11), 10=-239 (LC 22), 11=-250 (LC 11) Max Grav 2=1536 (LC 1), 10=11 (LC 11), 11=2138 (LC 1)	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 3-2-2 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11. 1 Row at midpt 5-14, 7-14 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
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FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-23=-2704/337, 3-23=-2635/361, 3-4=-2511/345, 4-5=-2370/379, 5-24=-1461/288, 6-24=-1376/322, 6-25=-1377/321, TOP CHORD

7-25=-1461/298, 7-8=-1379/277, 8-9=-1544/243, 9-26=-100/911, 10-26=-120/826

2-16=-240/2479, 15-16=-121/1856, 15-27=-121/1856, 27-28=-121/1856, 14-28=-121/1856, 14-29=-45/1297, 13-29=-45/1297, 12-13=-45/1297, 11-12=-49/486, 10-11=-730/155 BOT CHORD

WEBS 3-16=-400/189, 5-16=-32/785, 5-14=-817/226, 6-14=-135/909, 7-12=-305/94, 9-12=0/996, 9-11=-2241/378

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 2-10-2, Interior (1) 2-10-2 to 21-3-8, Exterior (2) 21-3-8 to 25-6-10, Interior (1) 25-6-10 to 42-7-8 zone; cantilever left and right exposed ; end 2) vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

* 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 3) any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 2, 250 lb uplift at joint 11 and 239 lb uplift at joint 10. 4)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 5)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T1B	Common	6	1	Job Reference (optional)

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Scale = 1:75.8

Plate Offsets (X, Y): [2:0-0-4,Edge], [10:0-0-4,Edge] 2-0-0 PLATES Loading (psf) Spacing CSI DEFL in (loc) l/defl L/d GRIP Plate Grip DOL TCLL (roof) 20.0 1.15 тс 0.99 Vert(LL) -0.25 11-13 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.79 Vert(CT) -0.47 11-13 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.84 Horz(CT) 0.13 10 n/a n/a BCDL IBC2015/TPI2014 10.0 Code Matrix-MS Weight: 254 lb FT = 20%

LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.1 2x4 SP No.1 *Except* B2:2x8 SP No.2 2x4 SP No.3	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 5-14						
REACTIONS (II M M M	o/size) 2=1791/0-3-8, (min. 0-2-13), 10=1704/ Mechanical, (min. 0-1-8) ax Horiz 2=187 (LC 10) ax Uplift 2=-261 (LC 11), 10=-209 (LC 11) ax Grav 2=1791 (LC 1), 10=1709 (LC 17)	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.							
FORCES TOP CHORD	FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. FOP CHORD 2-25=-3276/396, 3-25=-3205/421, 3-4=-3190/458, 4-5=-3070/487, 5-26=-2304/401, 6-26=-2210/423, 6-27=-2353/458, 7-77=-2434/436 7-8=-3071/495 8-9=-3211/461 9-28=-324/439 10-28=-3311/419 10-28=-3311/419								
BOT CHORD	2-18=-291/2988, 17-18=-205/2471, 16-17=-208/2441, 16-29=-205/2473, 29 14-15=-205/2471, 14-31=-36/1809, 31-32=-36/1809, 13-32=-36/1809, 12-1 33-34=-175/2327, 11-34=-175/2327, 10-11=-311/2909	-30=-205/2472, 15-30= 3=-175/2327, 12-33=-1	206/2469, 75/2327,						
WEBS	6-13=-142/1022, 7-13=-721/243, 7-11=-108/771, 9-11=-412/194, 6-14=-98/ 3-18=-354/167	892, 5-14=-730/240, 5-	18=-72/722,						
NOTES									
 Unbalance Wind: ASC 	 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=30ft; B=20ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 								

and C-C Exterior (2) -1-5-0 to 2-10-2, Interior (1) 2-10-2 to 21-3-8, Exterior (2) 21-3-8 to 25-6-10, Interior (1) 25-6-10 to 42-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

* 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 3) any other members, with BCDL = 10.0psf.

4) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 2 and 209 lb uplift at joint 10. 5)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 6)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T1C	Common	2	1	Job Reference (optional)

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44-0-0 1-5-0 21-3-8 6-11-0 28-2-8 6-11-0 35-1-8 6-11-0 42-7-0 7-5-8 7-5-8 7-5-8 14-4-8 6-11-0 5x5= 3x4 🕏 3x4 6 6 10-11-15 8 3x6≉ 3x6**≈** 2x4 3x5. 04-? Ì 17 16 3x4= 4x6= ¥2 28 29 30 13 3x4= 15 3x8= 14 3x6= 3x5= 3x4. 3x5= 9-9-3 9-9-3 21-3-8 11-6-5 28-2-8 6-11-0 37-5-4 9-2-12 42-7-0 5-1-12

Scale = 1:74.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.47	15-17	>954	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.80	15-17	>561	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 230 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP DSS WEBS 2x4 SP No.3 REACTIONS (lb/size) 2=1538/0-3-8, (min. 0-2-7), 10=-75/0-3- 12=2114/0-3-8, (min. 0-3-6) Max Horiz 2=189 (LC 10) Max Uplift 2=-233 (LC 11), 10=-206 (LC 22), 12=-21 Max Grav 2=1538 (LC 1), 10=39 (LC 21), 12=211	BRACING TOP CHORD BOT CHORD 8, (min. 0-1-8), WEBS 225 (LC 11) 4 (LC 1)	Structural wood sheathing directly applied or 3-2-2 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-12. 1 Row at midpt 5-15, 7-15 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES (lb) - Max. Comp./Max. Ten All forces 250 (TOP CHORD 2-24=-2706/341, 3-24=-2637/366, 3-4=-2513 7-26=-1464/303, 7-8=-1385/285, 8-9=-1551/2	b) or less except when shown. /349, 4-5=-2372/383, 5-25=-1464/292, 6-25=-137 252, 9-27=-72/897, 10-27=-90/794	9/326, 6-26=-1379/325,

BOT CHORD 2-17=-211/2488, 16-17=-92/1864, 16-28=-92/1864, 28-29=-92/1864, 15-29=-92/1864, 15-30=-20/1306, 14-30=-20/1306, 13-14=-20/1306, 12-13=-32/499, 10-12=-710/162

WEBS 3-17=-400/189, 5-17=-32/785, 5-15=-817/226, 6-15=-139/912, 7-15=-251/123, 7-13=-301/88, 9-13=0/992, 9-12=-2224/359

NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 2-10-2, Interior (1) 2-10-2 to 21-3-8, Exterior (2) 21-3-8 to 25-6-10, Interior (1) 25-6-10 to 44-0-0 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=1.60

* 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 3) any other members, with BCDL = 10.0psf.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2, 225 lb uplift at joint 12 and 206 lb uplift at joint 10.

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 5)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T1D	Common	6	1	Job Reference (optional)

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Scale = 1:74

late Offsets (X, Y): [2:0-0-4,Edge], [10:0-0-4,Edge]													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IBC2015/TPI2014	CSI TC BC WB Matrix-MS	0.69 0.75 0.83	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.43 0.13	(loc) 11-13 11-13 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 253 lb	GRIP 244/190 FT = 20%	

LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP DSS 2x4 SP No.1 *Except* B2:2x8 SP No.2 2x4 SP No.3	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 5-14
REACTIONS (Ib Ma Ma Ma	/size) 2=1790/0-3-8, (min. 0-2-13), 10=1702/0-3-8, (min. 0-2-11) ax Horiz 2=187 (LC 10) ax Uplift 2=-260 (LC 11), 10=-209 (LC 11) ax Grav 2=1790 (LC 1), 10=1707 (LC 17)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES TOP CHORD	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-25=-3275/391, 3-25=-3202/416, 3-4=-3219/468, 4-5=-3107/494, 5-26=-23 7-27=-2431/434, 7-8=-3072/493, 8-9=-3192/459, 9-28=-3225/437, 10-28=-3	339/402, 6-26=-2240/42 3293/417	25, 6-27=-2350/457,
BOT CHORD	2-18=-286/2986, 17-18=-215/2506, 16-17=-219/2487, 16-29=-215/2507, 29 14-15=-215/2506, 14-31=-38/1806, 31-32=-38/1806, 13-32=-38/1806, 12-1 33-34=-175/2322, 11-34=-175/2322, 10-11=-310/2891	-30=-216/2507, 15-30= 3=-175/2322, 12-33=-1	=-216/2504, 75/2322,
WEBS	6-13=-138/1026, 7-13=-714/242, 7-11=-107/753, 9-11=-409/194, 6-14=-97/8 3-18=-341/162	397, 5-14=-728/245, 5-	18=-76/709,

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=30ft; B=20ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Exterior (2) -1-5-0 to 2-10-2, Interior (1) 2-10-2 to 21-3-8, Exterior (2) 21-3-8 to 25-6-10, Interior (1) 25-6-10 to 42-7-0 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=1.60

* 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 3) any other members, with BCDL = 10.0psf.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 2 and 209 lb uplift at joint 10.

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 5)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T1E	Нір	1	1	Job Reference (optional)

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Scale = 1:76.1

Plate Offsets (X, Y): [6:0-2-8,0-2-4], [7:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.22	17-19	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.41	17-19	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.08	13	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 245 lb	FT = 20%	

LUMBER TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3 REACTIONS (lb/size) 2=1532/0-3-8, (min. 0-2-6), 11=-101/0-3-8, (min. 0-1-8), 13=2147/0-3-8, (min. 0-3-6) Max Haria 2=644 (LC A)	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 3-4-3 oc purlins, except 2-0-0 oc purlins (4-5-11 max.): 6-7. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14. 1 Row at midpt 5-17, 7-16
Max Uplift 2=-231 (LC 11), 11=-220 (LC 22), 13=-236 (LC 11) Max Grav 2=1532 (LC 1), 11=-9 (LC 21), 13=2147 (LC 1)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

TOP CHORD 2-26=-2708/345, 3-26=-2665/373, 3-4=-2501/334, 4-5=-2381/363, 5-6=-1693/333, 6-7=-1464/330, 7-8=-1503/317, 8-9=-1292/254, 9-10=-1411/226, 10-27=-71/932, 11-27=-86/852

BOT CHORD 2-19=-227/2496, 18-19=-117/2014, 18-28=-117/2014, 28-29=-117/2014, 17-29=-117/2014, 17-30=0/1325, 16-30=0/1200, 16-30=0/1300, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-30=0/1200, 16-300,

15-16=-21/1190, 15-31=-21/1190, 14-31=-21/1190, 11-13=-752/152

WEBS 3-19=-359/160, 5-19=-7/579, 5-17=-702/186, 6-17=-19/436, 7-17=-41/424, 8-16=-14/250, 8-14=-488/116, 10-14=-56/1321, 10-13=-2124/324

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=30ft; B=20ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 2-10-2, Interior (1) 2-10-2 to 18-2-13, Exterior (2) 18-2-13 to 30-2-15, Interior (1) 30-2-15 to 44-0-0 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=1.60

3) Provide adequate drainage to prevent water ponding.

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, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 2, 236 lb uplift at joint 13 and 220 lb uplift at joint 11.

6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T1F	Нір	1	1	Job Reference (optional)

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Scale = 1:76.1

Plate Offsets (X, Y): [5:0-2-8,0-2-4], [7:0-2-8,0-2-4], [8:0-6-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.11	15-16	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.24	18-21	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.09	12	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 233 lb	FT = 20%	

LUMBER			BRACING		
TOP CHORD) 2x4 SF	P No.1	TOP CHORD	Structural wood sheathing	directly applied or 3-2-5 oc purlins,
BOT CHORD) 2x4 SF	P No.1		except	
WEBS	2x4 SF	P No.3		2-0-0 oc purlins (4-5-0 ma	x.): 5-7.
REACTIONS	(Ib/size)	2=1535/0-3-8, (min. 0-2-7), 10=-97/0-3-8, (min. 0-1-8), 12=2139/0-3-8, (min. 0-3-6)	BOT CHORD WEBS	Rigid ceiling directly applie 1 Row at midpt	ed or 10-0-0 oc bracing. 3-16, 6-16, 6-13, 9-12
	Max Horiz Max Uplif Max Grav	z 2=136 (LC 10) z 2=233 (LC 11), 10=-238 (LC 20), 12=-222 (LC 11) z 2=1535 (LC 1), 10=-24 (LC 21), 12=2139 (LC 1)		MiTek recommends that S installed during truss erec Installation guide.	Stabilizers and required cross bracing be tion, in accordance with Stabilizer
FORCES	(lb)	- Max Comp /Max Ten - All forces 250 (lb) or less except when	n shown		

TOP CHORD 2-25=-2716/335, 3-25=-2634/361, 3-26=-2017/302, 4-26=-1907/320, 4-5=-1882/337, 5-27=-1715/339, 6-27=-1715/339,

6-28=-1299/290, 7-28=-1299/290, 7-29=-1447/283, 8-29=-1549/248, 8-9=-1556/244, 9-30=-54/939, 10-30=-89/808

2-18=-206/2369, 17-18=-206/2369, 16-17=-206/2369, 16-31=-66/1777, 15-31=-66/1777, 15-32=-66/1777,

BOT CHORD

14-32=-66/1777, 13-14=-66/1777, 12-13=-50/567, 10-12=-744/160

WEBS 3-16=-738/173, 5-16=-10/527, 6-15=0/313, 6-13=-759/97, 7-13=0/356, 9-13=0/899, 9-12=-2302/371

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Exterior (2) -1-5-0 to 2-10-2, Interior (1) 2-10-2 to 14-10-13, Exterior (2) 14-10-13 to 20-11-3, Interior (1) 20-11-3 to 27-8-3, Exterior (2) 27-8-3 to 33-8-8, Interior (1) 33-8-8 to 44-0-0 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=1.60

Provide adequate drainage to prevent water ponding. 3)

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, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2, 222 lb uplift at joint 12 and 238 lb uplift at joint 10. 5)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 6)

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 7)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	Т2	Нір	1	1	Job Reference (optional)

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Scale = 1:74.3

Plate Offsets (X, Y): [6:0-2-8,0-2-4], [7:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.21	17-19	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.40	17-19	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.08	13	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 245 lb	FT = 20%	

LUMBER TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 (lb/size) 2=1533/0-3-8, (min. 0-2-6), 11=-93/0-3-8, (min. 0-1-8), 12=2127(0-2-8, (min. 0-2-6), 11=-93/0-3-8, (min. 0-1-8),	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 3-4-5 oc purlins, except 2-0-0 oc purlins (4-5-11 max.): 6-7. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 5-17, 7-16
	Max Horiz 2=-164 (LC 9) Max Uplift 2=-232 (LC 11), 11=-218 (LC 22), 13=-233 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

TOP CHORD 2-26=-2710/348, 3-26=-2665/376, 3-4=-2490/332, 4-5=-2422/361, 5-6=-1694/334, 6-7=-1464/331, 7-8=-1506/318,

8-9=-1298/256, 9-10=-1417/228, 10-27=-66/915, 11-27=-80/835

BOT CHORD 2-19=-230/2496, 18-19=-117/2016, 18-28=-117/2016, 28-29=-117/2016, 17-29=-117/2016, 17-30=0/1328, 16-30=0/1328, 15-16=-23/1195, 15-31=-23/1195, 14-31=-23/1195, 11-13=-734/148

WEBS 3-19=-364/161, 5-19=-4/569, 5-17=-704/185, 6-17=-19/436, 7-17=-42/422, 8-14=-484/114, 10-14=-54/1312, 10-13=-2113/321

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=30ft; B=20ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 2-10-2, Interior (1) 2-10-2 to 18-2-13, Exterior (2) 18-2-13 to 30-2-15, Interior (1) 30-2-15 to 44-0-0 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=1.60

3) Provide adequate drainage to prevent water ponding.

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, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2, 233 lb uplift at joint 13 and 218 lb uplift at joint 11.

6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T2A	Нір	1	1	Job Reference (optional)

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Scale = 1:74.3

Plate Offsets (X, Y): [5:0-6-0,0-2-8], [7:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.12	15-16	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.24	18-21	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.09	12	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 233 lb	FT = 20%	

LUMBER TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2x4 SP 2x4 SP (Ib/size)	No.1 No.1 No.3 2=1539/0-3-8, (min. 0-2-7), 10=-68/0-3-8, (min. 0-1-8), 12=2105/0-3-8, (min. 0-3-5)	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing d except 2-0-0 oc purlins (4-4-8 max. Rigid ceiling directly applied 6-0-0 oc bracing: 10-12. 1 Row at midot	irectly applied or 3-2-4 oc purlins,): 5-7. or 10-0-0 oc bracing, Except: 3-16. 5-15. 9-12
	Max Horiz Max Uplift Max Grav	2=-136 (LC 9) 2=-234 (LC 11), 10=-215 (LC 20), 12=-213 (LC 11) 2=1539 (LC 1), 10=1 (LC 21), 12=2105 (LC 1)		MiTek recommends that Sta installed during truss erection Installation guide.	abilizers and required cross bracing be on, in accordance with Stabilizer

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

TOP CHORD 2-25=-2725/337, 3-25=-2643/363, 3-26=-2026/304, 4-26=-1926/321, 4-5=-1919/339, 5-27=-1738/354, 6-27=-1738/354,

6-28=-1738/354, 7-28=-1738/354, 7-8=-1466/288, 8-29=-1473/269, 9-29=-1574/253, 9-30=-38/872, 10-30=-72/742

BOT CHORD 2-18=-208/2376, 17-18=-208/2376, 16-17=-208/2376, 16-31=-55/1760, 15-31=-55/1760, 15-32=-7/1304, 14-7

13-14=-7/1304, 12-13=-59/598, 10-12=-683/145

WEBS 3-16=-739/173, 5-16=0/539, 6-15=-431/148, 7-15=-95/744, 9-13=0/874, 9-12=-2261/361

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=30ft; B=20ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 2-10-2, Interior (1) 2-10-2 to 14-10-13, Exterior (2) 14-10-13 to 20-11-2, Interior (1) 20-11-2 to 27-8-3, Exterior (2) 27-8-3 to 33-8-7, Interior (1) 33-8-7 to 44-0-0 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

3) Provide adequate drainage to prevent water ponding.

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, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 2, 213 lb uplift at joint 12 and 215 lb uplift at joint 10.

6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T2BGRD	Hip Girder	1	2	Job Reference (optional)

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Scale = 1:74.3

Plate	Offsets ()	X, Y): [5:0-6-0,0-2-8],	, [10:0-6-0,0-2-8], [12:	0-3-8,0-1-8], [18:0-2-1	,0-2-0]									
Loadi TCLL TCDL BCLL BCDL	i ng (roof)	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IBC2015/TPI2014	CSI TC BC WB Matrix-MS	0.17 0.37 0.60	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.06 -0.11 0.02	(loc) 19-20 19-20 15	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 592 lb	GRIP 244/190 FT = 20%	
LUMI TOP BOT WEB	BER CHORD CHORD S	2x4 SP No.1 2x6 SP No.2 2x4 SP No.3				BRACIN TOP CH BOT CH	I G ORD ORD	Structu except 2-0-0 o Rigid c	ral wood c purlins eiling di	d sheath s (6-0-0 rectly ap	ing dir max.):	rectly applied or 5-10. or 6-0-0 oc braci	6-0-0 oc purlins, na.	
REAU	(lb) -	All bearings 0-3-8. Max Horiz 2=-108 (L Max Uplift All uplift 1 13=-179 Max Grav All reaction (LC 1), 24	_C 29) 100 (lb) or less at join (LC 31), 15=-735 (LC ons 250 (lb) or less at 4=3748 (LC 1)	t(s) except 2=-157 (LC 7), 24=-913 (LC 7) joint(s) 2, 13 except 1	31), 5=3276			5	5	, ,			5	
FOR TOP	CES CHORD	(lb) - Max. Com 2-3=-174/490, 7-8=-2718/798 11-12=-1265/3	np./Max. Ten All for 3-4=-222/1159, 4-5=- , 8-9=-2718/798, 9-32 58, 12-13=-112/559	ces 250 (lb) or less exc 958/347, 5-30=-2211/6 2=-2718/798, 32-33=-2	ept when show 84, 30-31=-22 718/798, 10-33	wn. 211/684, 6-3 3=-2718/798	1=-2211/684 3, 10-11=-20	, 6-7 = -22 95/598,	211/684,					
BOT WEB	CHORD S	11-121263/32 2-34=-426/192 23-38=-839/28 20-42=-609/28 45-46=-323/18 15-49=-1428/4 3-25=-51/533, 7-21=-977/241 12-16=-688/29	50, 12-13112/559 , 25-34=-420/188, 25 8, 22-38=-839/288, 2 33, 20-43=-609/2833 20, 17-46=-323/1820 20, 15-50=-476/168, 3-24=-804/167, 4-24= 7-20=-132/623, 8-15 13, 12-15=-2699/684	-35=-420/188, 35-36=- 2-39=-111/803, 39-40= , 43-44=-609/2833, 19- , 17-47=-172/1079, 47- 13-50=-476/168 =-2894/745, 4-22=-568 9=-314/116, 10-19=-37	420/188, 24-3(-111/803, 21-4 -44=-609/2833 -48=-172/1079 /2413, 5-22=-1 6/1421, 10-17=	6=-420/188, 40=-111/803, 3, 18-19=-32 9, 16-48=-17 1504/357, 5- =-390/108, 1	24-37=-839 21-41=-609 3/1820, 18-4 2/1079, 16-4 21=-560/222 1-17=-225/1	//288, 23 0/2833, 4 15=-323/ 19=-1428 20, 6-21= 1119, 11-	-37=-83 1-42=-6 1820, 3/420, =-316/11 16=-137	9/288, 09/2833 5, 7/351,	\$,			
NOTE	s		-,											
1) 1 2)	2-ply trus Top chore Bottom cl Web con All loads	s to be connected to ds connected as follo hords connected as f nected as follows: 2x are considered equal	gether with 10d (0.13 ws: 2x4 - 1 row at 0-9 follows: 2x6 - 2 rows s 4 - 1 row at 0-9-0 oc. Ily applied to all plies.	1"x3") nails as follows: 9-0 oc. staggered at 0-9-0 oc. except if noted as fror	nt (F) or back (I	B) face in th	e LOAD CA	SE(S) se	ection. P	ly to plv	conne	ections have bee	n provided to	
_, .	distribute	only loads noted as	(F) or (B), unless othe	erwise indicated.		_,		-=(-)		.,,				
3) (Unbaland	ed roof live loads ha	ve been considered for	or this design.										
4)	Wind: AS	CE 7-10; Vult=120m	ph (3-second gust) Va	asd=95mph; TCDL=6.0	psf; BCDL=6.0	0psf; h=30ft; plate grip D	B=20ft; L=4	13ft; eave	e=5ft; Ca	at. II; Ex	p B; Ei	nclosed; MWFR	S (directional);	
5)	Provide a	idequate drainage to	prevent water pondin	ia.	Der DOL-1.00	plate grip D	OL-1.00							
6)	* This tru	ss has been designed	d for a live load of 20.	Opsf on the bottom cho	ord in all areas	where a re	ctangle 3-06	-00 tall b	y 2-00-0	0 wide	will fit l	between the bot	tom chord and	
7)	Provide n	nechanical connectio	n (by others) of truss	to bearing plate capab	le of withstand	ding 157 lb ι	plift at joint :	2, 912 lb	uplift at	joint 24	, 735 II	b uplift at joint 1	5 and 178 lb	

uplift at joint 13.

8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof	
Q-2001273-1	T2BGRD	Hip Girder	1	2	Job Reference (optional)	
Peak Truss Builders LLC, New Hill, user Run: 8.31 S			ep 9 2019 Pi	int: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:08	Page: 2

ID:q?cXLNiAlitW31?dnO_T1Az9y34-EE3bVqRU0BaJcTO28aDZuMV4d4AFmKnAuOQKIPz8MtD

10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 6-0-0 oc max. starting at 3-4-4 from the left end to 39-2-12 to connect truss(es) T3GRD (1 ply 2x4 SP), T3G (1 ply 2x4 SP), T3E (1 ply 2x4 SP), T3 (1 ply 2x4 SP), face of bottom chord.

11) Fill all nail holes where hanger is in contact with lumber.

12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 1)

Uniform Loads (lb/ft)

Vert: 1-5=-60, 5-10=-60, 10-14=-60, 2-13=-20

Concentrated Loads (lb)

Vert: 20=-211, 15=-211, 34=-305, 35=-220, 36=-220, 37=-110, 38=21, 39=-211, 40=-211, 41=-211, 42=-211, 43=-211, 44=-211, 45=-211, 46=-211, 47=-1, 48=-220, 49=-211, 50=-253

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T2GRD	Hip Girder	1	2	Job Reference (optional)

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Scale = 1:76.1

Plate	Offsets (X,	Y): [5:0-6-0,0-2-8],	, [10:0-6-0,0-2-8], [12	:0-3-8,0-1-8], [18:0-2-9	,0-2-0]									
Load TCLL TCDL BCLL BCDL	ing (roof) -	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IBC2015/TPI2014	CSI TC BC WB Matrix-MS	0.17 0.37 0.60	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.06 -0.11 0.02	(loc) 19-20 19-20 15	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 592 lb	GRIP 244/190 FT = 20%	
LUM TOP BOT WEB REA	BER CHORD CHORD S CTIONS A (Ib) - M M	2x4 SP No.1 2x6 SP No.2 2x4 SP No.3 Il bearings 0-3-8. fax Horiz 2=109 (L fax Uplift All uplift 13=-171 fax Grav All reaction	C 30) 100 (lb) or less at join (LC 31), 15=-750 (LC ons 250 (lb) or less a	it(s) except 2=-157 (LC) 7), 24=-912 (LC 7) t joint(s) 2, 13 except 1	31), 5=3332	BRACIN TOP CH BOT CH	G ORD ORD	Structu except 2-0-0 o Rigid c	ral wood c purling eiling dii	d sheath s (6-0-0 rectly ap	ning dir max.): oplied o	rectly applied or 5-10. or 6-0-0 oc braci	6-0-0 oc purlins, ng.	,
FOR TOP BOT	CES CHORD CHORD	(LC 1), 2- (lb) - Max. Con 2-3=-174/489, 7-8=-2712/796 11-12=-1248/3 2-34=-425/191	4=3745 (LĆ 1) np./Max. Ten All for 3-4=-222/1158, 4-5=- , 8-9=-2712/796, 9-33 54, 12-13=-112/565 , 25-34=-419/188, 25	ces 250 (lb) or less exc -957/346, 5-30=-2209/6 2=-2712/796, 32-33=-2 -35=-419/188, 35-36=-	ept when sho 84, 30-31=-22 712/796, 10-3 419/188, 24-3	wn. 209/684, 6-3 3=-2712/796 6=-419/188,	1=-2209/684 5, 10-11=-20 24-37=-838	4, 6-7=-2 87/597, 8/288, 23	209/684 -37=-83	l, 8/288,				
WEB	S	23-38=-838/28 20-42=-608/28 45-46=-322/18 15-49=-1430/4 3-25=-51/534, 7-21=-974/240 12-16=-682/28	8, 22-38=-838/288, 2 29, 20-43=-608/2829 12, 17-46=-322/1812 18, 15-50=-479/167, 3-24=-804/167, 4-24: 7-20=-132/623, 8-19 97, 12-15=-2691/681	22-39=-111/802, 39-40=), 43-44=-608/2829, 19), 17-47=-168/1063, 47 13-50=-479/167 =-2892/744, 4-22=-567 9=-314/116, 10-19=-37	-111/802, 21-4 -44=-608/2829 -48=-168/1063 /2411, 5-22=-7 7/1423, 10-17	40=-111/802, 9, 18-19=-32 3, 16-48=-16 1502/357, 5- =-395/109, 1	21-41=-608 2/1812, 18-4 8/1063, 16-4 21=-559/221 1-17=-228/1	3/2829, 4 45=-322/ 49=-1430 17, 6-21= 1130, 11-	1-42=-6 1812,)/418, :-316/11 16=-138	08/2829 5, 38/354,),			
NOTE	s													
1)	2-ply truss Top chords Bottom cho Web conne	to be connected to connected as follo ords connected as f ected as follows: 2x	gether with 10d (0.13 ws: 2x4 - 1 row at 0-9 ollows: 2x6 - 2 rows s 4 - 1 row at 0-9-0 oc.	1"x3") nails as follows: 9-0 oc. staggered at 0-9-0 oc.										
2)	All loads a	re considered equa	Ily applied to all plies	, except if noted as from	nt (F) or back ((B) face in th	e LOAD CA	SE(S) se	ction. P	ly to ply	conne	ections have bee	n provided to	
2)		d roof live loods ho	(F) OF (D), Unless Off	erwise mulcaled.										
3) 4)	Wind: ASC	E 7-10; Vult=120m	ph (3-second gust) Va	asd=95mph; TCDL=6.0	psf; BCDL=6.	.0psf; h=30ft;	B=20ft; L=4	13ft; eave	e=5ft; Ca	at. II; Ex	pB;E	nclosed; MWFR	S (directional);	
	cantilever l	eft and right expose	ed ; end vertical left a	ind right exposed; Lum	ber DOL=1.60) plate grip D	OL=1.60							
5)	Provide ad	equate drainage to	prevent water pondir	ng.										
6)	* This truss any other r	s has been designe nembers.	d for a live load of 20	.0psf on the bottom cho	ord in all areas	s where a rec	ctangle 3-06	-00 tall b	y 2-00-0	00 wide	will fit l	between the bot	tom chord and	
	D · ·						1.61 1.1.1.1.1	0 044 11		1-1-1-04	750 "			

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 2, 911 lb uplift at joint 24, 750 lb uplift at joint 15 and 171 lb 7)

uplift at joint 13. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 8)

9)

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T2GRD	Hip Girder	1	2	Job Reference (optional)

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ID:q?cXLNiAlitW31?dnO_T1Az9y34-iQd_j9S6nViAEczEilkoQZ2FNUWUVn0K629tHrz8MtC 10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 15-11-4 oc max. starting at 3-4-4 from the left end to 21-3-8 to connect truss(es) T3GRD (1 ply 2x4 SP), T3G (1 ply 2x4 SP), T3 (1 ply 2x4 SP) to back face of bottom chord.

11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 6-0-0 oc max. starting at 7-4-4 from the left end to 19-4-4 to connect truss(es) T3E (1 ply 2x4 SP), T3 (1 ply 2x4 SP) to back face of bottom chord.

12) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 4-0-0 oc max. starting at 23-2-12 from the left end to 39-2-12 to connect truss (es) T3 (1 ply 2x4 SP), T3D (1 ply 2x4 SP), T3F (1 ply 2x4 SP), T3H (1 ply 2x4 SP), T3IGRD (1 ply 2x4 SP) to back face of bottom chord.

13) Fill all nail holes where hanger is in contact with lumber.

14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-5=-60, 5-10=-60, 10-14=-60, 2-13=-20

Concentrated Loads (lb)

Vert: 20=-211, 15=-211, 34=-305, 35=-220, 36=-220, 37=-110, 38=21, 39=-211, 40=-211, 41=-211, 42=-211, 43=-211, 44=-211, 45=-211, 46=-211, 47=-1, 48=-220, 49=-211, 50=-319

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	тз	Jack-Closed	18	1	Job Reference (optional)

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Scale = 1:42.3

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

	, , , ,												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.07	4-5	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 42 lb	FT = 20%	

6-4-8

LUMBER TOP CHORD BOT CHORD WEBS REACTIONS (Ib/ Ma Ma	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 ′size) 4=231/ Mechanical, (min. 0-1-8), 5=349/0-3-8, (min. 0-1-8) x Horiz 5=194 (LC 8) x Uplift 4=-65 (LC 8), 5=-57 (LC 11)	BRACING TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
Ma	x Grav 4=259 (LC 16), 5=349 (LC 1)		
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when sho 2-5=-288/141 4-5=-335/316 2-4=-250/277	wn.	

NOTES

 Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 6-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) * 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.

3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 5 and 65 lb uplift at joint 4.

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	ТЗА	Half Hip	2	1	Job Reference (optional)

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

except end verticals.

Installation guide.





		4-3-8	
	4-1-12	6-4-8	
1	4-1-12	2-1-0	1
		0-1-12	

BRACING TOP CHORD

BOT CHORD

Scale = 1:43

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.03	6-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.04	6-9	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	2	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 47 lb	FT = 20%	

	1 1 1	ИR	E	R
_	UI			n.

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3

SLIDER Left 2x6 SP No.2 -- 2-6-0

REACTIONS All bearings 0-1-8. except 2=0-3-8, 6=0-3-8

(lb) - Max Uplift All uplift 100 (lb) or less at joint(s) 5 except 4=-288 (LC 11), 6=-294 (LC 16)

Max Grav All reactions 250 (lb) or less at joint(s) 5 except 4=486 (LC 16), 6=296 (LC 11)

FORCES	(lb) - Max. Comp./Max. Te	en All forces 250 (lb) or l	ess except when shown.
--------	---------------------------	-----------------------------	------------------------

TOP CHORD 2-3=-376/419, 3-11=-328/176, 4-11=-320/194

- BOT CHORD 2-6=-408/520
- WEBS 4-6=-456/667

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 6-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) * 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.

3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=153, 6=294, 4=288.

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

Job	Truss	Truss Type		Qty	Ply	Surles Duplex-Roof
Q-2001273-1)1273-1 T3B		Half Hip		1	Job Reference (optional)
Peak Truss Builders LLC,	New Hill, user	•	Run: 8.31	S Sep 9 2019	Print: 8.310	S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:10 Page: 1
				ID:bG	Z7SIcWsxk	bUfpvm?JMAHz9y3D-AcAMwVSlXoq1smYRG?F1znaL7usaELETLivRplz8MtE
			-1-5-0	6-1-0		6-4-B
			1-5-0	6-1-0		0- <mark>3-</mark> 8
	-	6-8-13 6-8-13 5-10-11 6-11-15 0-1-14 0-1-14 0-1-14	4x5 ≠ 3 2 1000 1000 1000 1000 1000 1000 1000	12 10		3x6 * 4 4 5 5 2x4 II

3-2-4	6-4-8
3-2-4	3-2-4

Scale = 1:41.8

Plate Offsets (X, Y): [2:Edge,0-0-0]													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.02	6-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.02	6-9	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 48 lb	FT = 20%	

LUMBER		BRACING	
TOP CHORD 2	x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD 2	x4 SP No.1		except end verticals.
WEBS 2	x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER L	eft 2x6 SP No.2 2-6-0		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (lb/s	size) 2=341/0-3-8 (min 0-1-8) 4=217/ Mechanical (min 0-1-8)		installed during truss erection, in accordance with Stabilizer
	5=20/ Mechanical, (min. 0-1-8)		Installation guide.
Max	(Horiz 2=190 (LC 10)		
Max	(Uplift 2=-52 (LC 11), 4=-78 (LC 8)		
Max	(Grav 2=341 (LC 1), 4=244 (LC 16), 5=25 (LC 10)		
FORCES	(Ib) - Max Comp (Max Ten - All forces 250 (Ib) or less except when sho	wp	
	2-3=-512/591	vv11.	
BOT CHORD	2-6371/401		
WERS			
VVEDO	4-0107/201		

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 6-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & 1) MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

* 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 2) any other members.

3) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2 and 78 lb uplift at joint 4. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in. 4)

5)

6)

	Job	Truss	Truss Type			Qty	Ply	Surles Duplex-Roof	
	Q-2001273-1	T3C	Half Hip			2	1	Job Reference (optional)	
Peak Truss Builders LLC, New Hill, user					Run: 8.31 S Se	p 9 2019 Pr	int: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:10 Page	: 1
	ID:bGZ7SIcWsxkoUfpvm?JMAHz9y3D-AcAMwVSIXoq1smYRG?F1znaNduumEMjTLivRplz8MtB								ltΒ
				-1-5-0	5-	0-2		6-4-8	

5-0-2

1-4-6

1-5-0





Scale = 1:39.9

Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-6-4,0-2-0]													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.33	Vert(LL)	0.02	8-11	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.03	8-11	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 50 lb	FT = 20%	

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x4 SP No.1		except end verticals, and 2-0-0 oc purlins: 4-5.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER	Left 2x6 SP No.2 2-6-0		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS	(lb/size) 2=289/0-3-8, (min. 0-1-8), 6=130/ Mechanical, (min. 0-1-8), 8=164/0-3-8, (min. 0-1-8)		installed during truss erection, in accordance with Stabilizer Installation guide.
I	Max Horiz 2=159 (LC 10)		
I	Max Uplift 2=-55 (LC 11), 6=-54 (LC 8), 8=-26 (LC 11)		
I	Max Grav 2=289 (LC 1), 6=130 (LC 1), 8=177 (LC 16)		

FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-292/281
BOT CHORD	2-8=-262/287

NOTES

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=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 5-0-2, Exterior (2) 5-0-2 to 6-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 6, 55 lb uplift at joint 2 and 26 lb uplift at joint 8.

7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

	Job	Truss	Truss Type			Qty	Ply	Surles	Duplex-Roof	
	Q-2001273-1	T3D	Half Hip			2	1	Job Re	ference (optional)	
Peak Truss Builders LLC, New Hill, user Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:10					19 MiTek Industries, Inc. Mon Jun 08 11:50:10 Pag	e: 1				
ID:bGZ7SIcWsxkoUfpvm?JMAHz9y3D-AcAMwVSIXoq1smYRG?F1znaNduuEEK9TL							Hz9y3D-AcAMwVSIXoq1smYRG?F1znaNduuEEK9TLivRpIz8	MtB		
				-1-5-0	5-	-0-2		6-4-8		





5-1-14	6-4-8
5-1-14	1-2-10

Scale = 1:38.8

Plate Offsets (X, Y): [2	Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-6-4,0-2-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.33	Vert(LL)	0.03	7-10	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.04	7-10	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.02	2	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 50 lb	FT = 20%	

LUMBER TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1	BRACING TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER	Left 2x6 SP No.2 2-6-0		MiTek recommends that Stabilizers and required cross bracing I
REACTIONS	(lb/size) 2=344/0-3-8, (min. 0-1-8), 6=240/ Mechanical, (min. 0-1-8) Max Horiz 2=159 (LC 10)		installed during truss erection, in accordance with Stabilizer Installation guide.
	Max Uplift 2=-64 (LC 11), 6=-54 (LC 8)		
	Max Grav 2=344 (LC 1), 6=247 (LC 16)		
FORCES TOP CHORD	(Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when sh 2-3=-260/168	own.	

BOT CHORD 2-7=-262/288 4-6=-362/174

WEBS

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 5-0-2, Exterior (2) 5-0-2 to 6-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding. 3)

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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 6 and 64 lb uplift at joint 2. 6)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 7)

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 8)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof	
Q-2001273-1	T3E	Half Hip	2	1	Job Reference (optional)	
Peak Truss Builders LLC, New Hill, user Ru			p 9 2019 Pi	int: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:10 Pa	ge: 1

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

	.Eugo,o o o],	[1.0 0 1,0 2 0]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.01	7-10	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	7-10	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 46 lb	FT = 20%	

	2v4 SP No 1		Structural wood sheathing directly applied or 6-0-0 oc purling
BOT CHORD	2x4 SP No.1		except end verticals, and 2-0-0 oc purlins: 4-5.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER	Left 2x6 SP No.2 2-6-0		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (II	b/size) 2=344/0-3-8, (min. 0-1-8), 6=240/ Mechanical, (min. 0-1-8)		installed during truss erection, in accordance with Stabilizer
M	lax Horiz 2=128 (LC 10)		Installation guide.
M	lax Uplift 2=-73 (LC 11), 6=-46 (LC 8)		

FORCES NOTES

Scale = 1:35.7

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 3-9-11, Exterior (2) 3-9-11 to 6-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

3) * 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.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 2 and 46 lb uplift at joint 6.

6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T3F	Half Hip	2	1	Job Reference (optional)

 Run: 8.31 S
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	i i i i i i i i i i i i i i i i i i i	i i i i i i i i i i i i i i i i i i i	i.
	3-11-7	6-4-8	l
· · · · · · · · · · · · · · · · · · ·	3-11-7	2-5-1	1

Scale = 1:36.7

Plate Offsets (X, Y): [3:0-3-4,0-2-0], [7:0-3-0,0-6-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.00	6	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	6-7	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 46 lb	FT = 20%	

LUMBER	BRACING	
TOP CHORD 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD 2x4 SP No.1		except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 5=231/ Mechanical, (min. 0-1-8), 7=349/0-3-8, (min. 0-1-8) Max Horiz 7=132 (LC 8) Max Uplift 5=-47 (LC 8), 7=-77 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when s TOP CHORD 2-7=-316/129	hown.	
NULES		

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=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 3-9-11, Exterior (2) 3-9-11 to 6-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 5 and 77 lb uplift at joint 7.

7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T3G	Half Hip	2	1	Job Reference (optional)
Peak Truss Builders LLC, New H	Hill, user	Run: 8.31 S Se	ep 9 2019 P	rint: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:11 Page: 1
			ID:3	BT7Vfec8dFs	sf6oO5JiqbiUz9y3C-epkk7rTNI6yuTw7dpimGW_7balHpzoodaMe_Mkz8MtA





2-9-1	6-4-8	,
2-9-1	3-7-7	ĺ

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.00	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 42 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x4 SP No.1		except end verticals, and 2-0-0 oc purlins: 4-5.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER	Left 2x6 SP No.2 2-6-0		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (lb/size) 2=344/0-3-8, (min. 0-1-8), 6=240/ Mechanical, (min. 0-1-8) Max Horiz 2=96 (LC 10)		installed during truss erection, in accordance with Stabilizer Installation guide.
Ν	Max Uplift 2=-80 (LC 11), 6=-40 (LC 8)		

FORCES NOTES

Scale = 1:32.6

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 2-7-5, Exterior (2) 2-7-5 to 6-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

3) * 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.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 40 lb uplift at joint 6.

6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T3GRD	Half Hip Girder	2	1	Job Reference (optional)

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NAILED NAILED

	1-6-10	6-4-8
í	1-6-10	4-9-14

Plate Offsets (X, Y): [3:0-6-4,0-2-0], [7:0-3-0,0-6-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.05	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 36 lb	FT = 20%

LUMBER TOP CHORD 2 BOT CHORD 2 WEBS 2	x4 SP No.1 x4 SP No.1 x4 SP No.3 *Except* W1:2x4 SP No.2	BRACING TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. Biging directly applied or 10-0-0 oc pracing
REACTIONS (Ib/s Max Max	ize) 5=325/ Mechanical, (min. 0-1-8), 7=429/0-3-8, (min. 0-1-8) Horiz 7=76 (LC 7) Uplift 5=-55 (LC 4), 7=-106 (LC 7)	Derenend	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when show 2-3=-384/61, 2-7=-504/110 6-8=-51/258, 8-9=-51/258, 5-9=-51/258 3-5=-273/42, 2-6=0/264	/n.	

NOTES

Scale = 1:30.5

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 1) cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding. 2)

3) * 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.

4) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 7 and 55 lb uplift at joint 5. 5)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 6)

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 7)

"NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines. 8)

LOAD CASE(S) Standard

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

1) Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 8=-87, 9=-87

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	тзн	Half Hip	2	1	Job Reference (optional)

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:11 Page: 1 ID:3T7Vfec8dFsf6oO5JiqbiUz9y3C-epkk7rTNI6yuTw7dpimGW_7balH7zpzdaMe_Mkz8MtA





2-9-1	6-4-8	ļ
2-9-1	3-7-7	

Scale = 1:33.6

Plate Offsets (X, Y): [3:0-3-4,0-2-0], [7:0-3-0,0-6-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 40 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1	BRACING TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 5=231/ Mechanical, (min. 0-1-8), 7=349/0-3-8, (min. 0-1-8) Max Horiz 7=101 (LC 8) Max Uplift 5=-40 (LC 8), 7=-85 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when s TOP CHORD 2-7=-329/131 NOTES	hown.	

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=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 2-7-5, Exterior (2) 2-7-5 to 6-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5 and 85 lb uplift at joint 7.

7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

JOD	Truss		Truss Type		Qty	Ply		Surles	Duple	ex-Roo	т		
Q-2001273-1	T3IG	RD	Half Hip Girder	Half Hip Girder				Job Re	eferen	ice (opi	tional)		
Peak Truss Builder	s LLC, New Hill, user			Run: 8.3	1 S Sep 9 20	019 Print: 8.	310 S S	Sep 920	019 Mi	Tek Indu	ustries,	Inc. Mon Jun 08 11:	:50:11 Page: 1
					I	D:0rEG4JeF	P9s6NL	6XUR7t	3ovz9y	y3A-epk	k7rTNI	ንyuTw7dpimGW_7ነ	YclCaznYdaMe_Mkz8MtA
			-1-5-0	1-4-14		6-4	4-8						
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				1-6-10		6-	-4-8						
Scale = 1:29.5				1-6-10	1	4-9	9-14				/		
Plate Offsets (X	X): [2:Edge 0-0-0]	1 [3:0-6-4 0-2-0]											
	, 1). [Z.Luge,0-0-0]], [3.0-0- 4 ,0-2-0]											-
Loading	(psf) 20.0	Spacing Plate Grip DOI	2-0-0	CSI	0.38	DEFL	_0	in (loc)	l/defl ∖ooo	L/d	PLATES	GRIP 2///100
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0	.02	5-6	>999	180	10120	244/130
BCLL	0.0*	Rep Stress Incr	NO	WB Matrix MD	0.15	Horz(CT)) 0	.00	5	n/a	n/a	Maight 20 lb	FT - 200/
BCDL	10.0	Code	IBC2015/1PI2014	Matrix-MP			_	-				Weight: 38 lb	FT = 20%
LUMBER					BRACIN	G							
TOP CHORD	2x4 SP No.1				TOP CH	ORD	Str	uctural	wood	sheat	ning di	rectly applied or	6-0-0 oc purlins,
WEBS	2x4 SP No.1 2x4 SP No.3				BOT CH	ORD	Rig	id ceilir	ng dire	ectly a	na 2-u oplied	or 10-0-0 oc brac	+. cing.
SLIDER	Left 2x6 SP No.2	1-11-2					Mi	Tek rec	commo	ends th	at Sta	bilizers and requ	ired cross bracing be
	b/size) 2=424/0	-3-8, (min. 0-1-8), 5=3	339/ Mechanical, (min.	0-1-8)			Ins	stalled c	during n quia	truss (de.	erectic	n, in accordance	e with Stabilizer
N	/lax Uplift 2=-102 ((LC 7), 5=-56 (LC 4)											
FORCES	(lb) - Max. Co	mp./Max. Ten All for	ces 250 (lb) or less ex	cept when show	vn.								
WEBS	2-6=-55/269, 6	5-11=-53/298, 11-12= 5=-315/44	-53/298, 5-12=-53/298										
NOTES													
1) Wind: ASC	E 7-10; Vult=120m	nph (3-second gust) V	asd=95mph; TCDL=6.	Opsf; BCDL=6.0)psf; h=30ft;	B=20ft; L=	=20ft; (eave=4	ft; Ca	t. II; Ex	кр В; Е	nclosed; MWFR	S (directional);
2) Provide ad	lequate drainage to	prevent water pondi	ng.	IDEI DOL-1.00	plate grip D	OL-1.00							
3) * This truss	s has been designe	ed for a live load of 20	0.0psf on the bottom ch	ord in all areas	where a rec	tangle 3-0	06-00 t	all by 2	-00-0	0 wide	will fit	between the both	tom chord and
 Any other r Refer to gi 	rder(s) for truss to	truss connections.											
5) Provide me	echanical connection	on (by others) of truss	to bearing plate capal	ole of withstand	ing 102 lb u	plift at join	t 2 and	1 56 lb i	uplift	at joint	5.		
7) Graphical (purlin representation	on does not depict the	size or the orientation	of the purlin al	ong the top	eierenced and/or boti	standa tom ch	ara ANS Iord.	5I/TPI	1.			
8) "NAILED"	indicates 3-10d (0.	148"x3") or 3-12d (0.1	148"x3.25") toe-nails p	er NDS guidline	s.								
1) Dead + D) Standard): Lumber Incrosec=1	15 Plate Increase-1	15									
Uniform L	Loads (lb/ft)			10									
	Vert: 1-3=-60, 3	3-4=-60, 5-7=-20											

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Concentrated Loads (lb) Vert: 11=-90, 12=-90

Job	Truss		Truss Typ	e		Qty	Ply		Surles	s Duple	ex-Roof			
Q-2001273-1	T3JGF	RD	Half Hip	Girder		1	1		Job Re	eferen	ce (opti	onal)		
Peak Truss Builders LLC, New H	Hill, user				Run: 8.3	1 S Sep 9 20)19 Print: 8.	.310 S S	Sep 920	019 Mi	Tek Indus	stries, I	nc. Mon Jun 08 11:	50:12 Page: 1
						I	D:0rEG4Je	P9s6NL	_6XUR71	t3ovz9y	/3A-6?l6	LBU?3	Q4k54hpNQHV2Co	giYiadiFamp0OXuAz8Mt9
				-1-5-0	1-4-14		6-	4-8						
				1-5-0	1-4-14	,	4-11	1-10			/			
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						NAILED		NAILI	ED					
					10									
					12									
					10	7x8=					2x4	II .		
					3	11		1	2		4			
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						NAILLD			LD					
					i.	1								
					1-6-10		6	-4-8						
Scale = 1:29.5					1-6-10	1	4-	9-14						
Plate Offsets (X, Y): [2:Edg	e,0-6-8],	[3:0-6-4,0-2-0]												
Loading	(psf)	Spacing		2-0-0	CSI		DEFL		in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL		1.15	тс	0.43	Vert(LL)	0	.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL		1.15	BC	0.15	Vert(CT)	-0	.02	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr			WB	0.10	Horz(CT) 0	.00	5	n/a	n/a	Mainht 00 "	FT - 00%
	10.0	Code	IBC20	15/112014	Matrix-MP								vveight: 38 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD 2x4 SP No.1	except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.2 1-11-2	MiTek recommends that Stabilizers and required cross bracing
REACTIONS (lb/size) 2=371/0-3-8, (min. 0-1-8), 5=273/ Mechanical, (m Max Horiz 2=65 (I C 6)	n. 0-1-8) installed during truss erection, in accordance with Stabilizer Installation guide.

Max Horiz 2=65 (LC 6) Max Uplift 2=-87 (LC 7), 5=-37 (LC 4)

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=30ft; B=20ft; L=20ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 1) cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding. 2)

* 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 3) any other members.

4) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 2 and 37 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 5)

6)

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 1)

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 5-7=-20 Concentrated Loads (lb)

Vert: 11=-15, 12=-15, 13=-15, 14=-15



	. [2:2490,0 0 0],	[:0:0 : 0;0 : 0]				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL
TOLL (reaf)	20.0	Diata Orin DOI	4 4 5	TO	0.46	$\lambda/art/(11)$

LUMBER TOP CHORD	2x4 SP No.1				BRACIN TOP CH	G ORD	Structura	al wood	sheath	ing dir	ectly applied or (6-0-0 oc purlins,	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 76 lb	FT = 20%	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	10	n/a	n/a			
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999			
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190	

BOT CHORD

L/d PLATES

MiTek recommends that Stabilizers and required cross bracing be

installed during truss erection, in accordance with Stabilizer

GRIP

l/defl

Rigid ceiling directly applied or 6-0-0 oc bracing

in (loc)

except end verticals.

Installation guide.

IOF CHORD	2X4 SF NU. I
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 2-5-7

REACTIONS All bearings 11-11-0.

(lb) - Max Horiz 2=126 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12, 14, 15, 2

Max Grav All reactions 250 (lb) or less at joint(s) 10, 11, 12, 13, 14, 15, 2

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

FORCES

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Corner (3) -1-0-8 to 1-11-8, Exterior (2) 1-11-8 to 5-11-8, Corner (3) 5-11-8 to 8-11-8, Exterior (2) 8-11-8 to 13-4-0 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=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult 3) qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 2-0-0 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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 14, 15, 12, 11, 2. 8)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 9)



Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	Т5	Jack-Closed	2	1	Job Reference (optional)

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:12 Page: 1 ID:3T7Vfec8dFsf6oO5JiqbiUz9y3C-6?I6LBU?3Q4k54hpNQHV2Cgnsic2iG8mp0OXuAz8Mt9





Scale =	1:28.4

			-				1					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.09	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

3-4-0

LUMBER TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3 REACTIONS (lb/size) 2=228/0-3-8, (min. 0-1-8), 4=110/ Mechanical, (min. 0-1-8)	BRACING TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (lb/size) 2=228/0-3-8, (min. 0-1-8), 4=110/ Mechanical, (min. 0-1-8) Max Horiz 2=60 (LC 10) Max Uplift 2=-72 (LC 11), 4=-7 (LC 11)		Milek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 3-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) * 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.

3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 4 and 72 lb uplift at joint 2.

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	T5A	Jack-Open	2	1	Job Reference (optional)

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:12 Page: 1 ID:3T7Vfec8dFsf6oO5JiqbiUz9y3C-6?I6LBU?3Q4k54hpNQHV2Cgniic2iG8mp0OXuAz8Mt9





Scale = 1:28.4					3-3-	8	\rightarrow					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.10	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1

2x4 SP No.1 BOT CHORD

REACTIONS (lb/size) 2=233/0-3-8, (min. 0-1-8), 3=75/ Mechanical, (min. 0-1-8), 4=35/ Mechanical, (min. 0-1-8) Max Horiz 2=88 (LC 11) Max Uplift 2=-65 (LC 11), 3=-30 (LC 11) Max Grav 2=233 (LC 1), 3=75 (LC 1), 4=36 (LC 16)

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=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) 1) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 3-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

* 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 2) any other members.

3) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3 and 65 lb uplift at joint 2. 4)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 5)

LOAD CASE(S) Standard

BRACING TOP CHORD BOT CHORD

. . .

Structural wood sheathing directly applied or 3-3-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	Т5В	Jack-Closed	4	1	Job Reference (optional)

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:12 Page: 1 ID:3T7Vfec8dFsf6oO5JiqbiUz9y3C-6?I6LBU?3Q4k54hpNQHV2CgniicBiG8mp0OXuAz8Mt9

Scale = 1:28.4				<u>}</u>	3-3-	8	\rightarrow					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.10	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%
												1

LUMBER	BRACING	
TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
WEBS 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 2=230/0-3-8, (min. 0-1-8), 4=107/ Mechanical, (min. 0-1-8) Max Horiz 2=60 (LC 10) Max Uplift 2=-74 (LC 11), 4=-7 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when	shown.	

NOTES

 Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-0 to 1-7-0, Interior (1) 1-7-0 to 3-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) * 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.

3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 4 and 74 lb uplift at joint 2.

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1 V1	Valley	1	1	Job Reference (optional)
Peak Truss Builders LLC, New Hill, user	Run: 8.31 S S	ep 92019 P	rint: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:13 Page: 1
		ID:k83	GZZjtVIHrc\	VSXQgUFdUz9LX2-bBsUYXVdqjCbjEG0x7pkbPCle5wFRexw1g75Qdz8Mt8
	<u>∤ 12-3-</u> :			

Scale = 1:51.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horiz(TL)	0.00	6	n/a	n/a			
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 76 lb	FT = 20%	

12-3-2

LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 2x4 SP No.3	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. <u>1 Row at midpt</u> 5-6
REACTIONS AI (Ib) - M M	ll bearings 12-3-2. ax Horiz 1=309 (LC 8) ax Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 9 except 7=-114 (LC 11), 8=-146 (LC 11) ax Grav All reactions 250 (lb) or less at joint(s) 1, 6 except 7=356 (LC		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES TOP CHORD WEBS	16), 8=421 (LC 16), 9=273 (LC 1) (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when show 1-2=-467/479, 2-12=-389/355, 3-12=-375/394, 3-13=-267/225, 4-13=-239 3-8=-287/201, 4-7=-277/186	vn. //271	

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 1) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 12-1-11 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Gable requires continuous bottom chord bearing. 2)

* 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 3) any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 1, 9 except (jt=lb) 8=145, 7=113. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

Job	Truss		Truss Type		Qty	Ply		Surles Duplex-Roof			
Q-2001273-1	1 V2		Valley			1					
	· · · · · · · · · · · · · · · · · · ·		valley		<u> </u>	<u> </u>		Job Reference (optio	onal)		
Peak Truss Builde	ers LLC, New Hill, user			Run: 8.31	S Sep 9 20	19 Print: 8.3 D:k83GZZi	310 S tVIHrc	Sep 9 2019 MiTek Indus	tries, Ind JYXVda	c. Mon Jun 08 11:5 aiCbiEG0x7pkbPC	50:13 Page: 1 oc5wsRfiw1g75Qdz8Mt8
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Scale = 1:48.2				11.	-0-12						
			ł		0 12			ł			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL		in (loc) l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)		n/a - n/a	999	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)) (0.00 6 n/a	999 n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS						Weight: 68 lb	FT = 20%
LUMBER	2x4 SP No 1				TOP CHO	G DRD	St	ructural wood sheathi	na dire	ectly applied or f	S-0-0 oc purlins
BOT CHORD	2x4 SP No.1						ex	cept end verticals.	ng ano	buly applied of e	o o oo punno,
WEBS	2x4 SP No.3				BOT CHO	ORD	Ri 1	gid ceiling directly app Row at midpt	olied or	r 6-0-0 oc bracin	ng.
REACTIONS	All bearings 11-0-12				WEBO		Ī	liTek recommends the	at Stabi	ilizers and requi	red cross bracing be
(lb) - l	Max Horiz 1=278 (L	.C 8)					in	stalled during truss e	rection,	, in accordance	with Stabilizer
I	Max Uplift All uplift	100 (lb) or less at join	nt(s) 1, 6, 9 except 7=-1	10 (LC			Ir	istallation guide.			
I	Max Grav All reacti	ons 250 (lb) or less a	at joint(s) 1, 6 except 7=	356 (LC							
	16), 8=42	22 (LC 16), 9=263 (L	C 1)	,							
FORCES	(lb) - Max. Con	np./Max. Ten All for	rces 250 (lb) or less exc	ept when shown	1.						
WEBS	3-8=-285/198,	4-7=-276/200									
NOTES	,										
1) Wind: AS	CE 7-10; Vult=120m	ph (3-second gust) V	/asd=95mph; TCDL=6.0	psf; BCDL=6.0p	sf; h=30ft;	B=20ft; L=	=20ft;	eave=4ft; Cat. II; Exp	B; En	closed; MWFRS	G (directional)
MWFRS f	for reactions shown;	Lumber DOL=1.60 p	blate grip DOL=1.60		Jur expose	u , enu ve	rucal	ien and right exposed	1,U-U 10	or members and	I IUICES O

2)

Gable requires continuous bottom chord bearing. * 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. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 1, 9 except (jt=lb) 8=145, 7=109. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 3)

4)

5)

Job	Truss		Truss Type		Qty	Ply		Surles Duple:	x-Roof		
Q-2001273-1	V3		Valley		1	1		Job Reference	e (ontional)	
Peak Truss Builde	rs LLC, New Hill, user			Run: 8.31	S Sep 920)19 Print: 8.	310 S	Sep 9 2019 MiTe	ek Industries) , Inc. Mon Jun 08 11:	50:13 Page: 1
			042		l <u>9-10-6</u> 9-6-4	D:DKdemuk	VG2P	iEf1j_N?U9iz9LX	(1-bBsUYXV	dqjCbjEG0x7pkbPCr	G5wYRfAw1g75Qdz8Mt8
			12 10 1 3x4 ¢	10	2x411 2 5 1 1 5 1 1 5 1 1 5 1 5 1 5 1 5 1 5		2 3 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3x4u x4u4 55 55 x4u 3x4u			
Scale = 1:45.5			ł	g	-10-6			ł			
Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.56 0.17	DEFL Vert(LL) Vert(TL)		in (loc) n/a - n/a -	l/defl L/c n/a 999 n/a 999	PLATES MT20	GRIP 244/190
BCDL	0.0* 10.0	Code	IBC2015/TPI2014	WB Matrix-MS	0.27	Horiz(IL) (J.UU 5	n/a n/a	Weight: 60 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS REACTIONS / (lb) - N	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 2x4 SP No.3 All bearings 9-10-6. Max Horiz 1=247 (I Max Uplift All uplift 6=-103 (Max Grav All react	_C 8) 100 (lb) or less at joi LC 11), 7=-164 (LC 1 ions 250 (lb) or less a	nt(s) except 5=-137 (LC 1) at joint(s) 1, 5 except 6=3	17), 341 (LC	BRACIN TOP CH	G ORD ORD	St ex Ri Ir Ir	ructural wood ccept end vertic gid ceiling dire liTek recomme istalled during istallation guid	sheathing c cals. ctly appliec nds that St truss erecti e.	lirectly applied or <u>I or 6-0-0 oc braci</u> abilizers and requ on, in accordance	6-0-0 oc purlins, ng. ired cross bracing be with Stabilizer
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC	16), 7=5 (lb) - Max. Co 1-10=-353/32 1-7=-135/252 2-7=-319/203 CE 7-10; Vult=120n	u3 (LC 16) mp./Max. Ten All fo 5, 2-10=-324/357 3-6=-280/223 nph (3-second gust) \	rces 250 (lb) or less exc /asd=95mph; TCDL=6.0	ept when show psf; BCDL=6.0	n. osf; h=30ft;	B=20ft; L:	=20ft;	eave=4ft; Cat	. II; Exp B;	Enclosed; MWFR	S (directional)

2)

and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 9-8-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Gable requires continuous bottom chord bearing. * 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 3) any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 5, 163 lb uplift at joint 7 and 103 lb uplift at joint 6. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

Job	Truss		Truss Type		Qty	F	Ply	Surles Dup	lex-Roo	f		
Q-2001273-1	V4		Vallev		1	1	1		, ,	·		
Peak Truss Builders I			valiey	Run: 8 31 S	Sen 9.20	110 Print	t· 8 310 9	Job Refere	nce (opt	ional)	nc Mon Jun 08 11:	50·13 Page: 1
Peak Truss Builders I	LLC, New Hill, user	7.2.14	- -	Run: 8.31 S 8-7- 2x 2	Sep 9 20 15	019 Print ID:DKdd	t: 8.310 S emukVG	2x4 I 3 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	iTek Indu 9LX1-bBs	stries, li	nc. Mon Jun 08 11: IqjCbjEG0x7pkbPC	50:13 Page: 1 ox5wjRi9w1g75Qdz8Mt8
Scale = 1:42				2x 8-7-	<u>В1</u> «8» 4 и			4 2x4 II				
Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.71	DEFL Vert(L	- _L)	in (loc) n/a -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.16 0.08	Vert(T Horiz(FL) (TL)	n/a - 0.00 4	n/a n/a	999 n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP			<u> </u>				Weight: 43 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS REACTIONS (Ib/ Ma Ma Ma	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 2x4 SP No.3 (size) 1=130/8- 5=425/8- x Horiz 1=215 (L x Uplift 4=-49 (L0 x Gray, 1=173.4)	7-15, (min. 0-1-8), 4 7-15, (min. 0-1-8) C 8), 5=-164 (LC 11) C 17) 4=199 (I C 16	=126/8-7-15, (min. 0-1-8	а В),	BRACIN TOP CH	G ORD ORD	S e: R III	tructural woo xcept end vei ligid ceiling di ViTek recomn nstalled durin nstallation gu	d sheath ticals. rectly ap nends th g truss e ide.	ning dir oplied o at Stal erection	rectly applied or or 10-0-0 oc brac bilizers and requ n, in accordance	6-0-0 oc purlins, sing. ired cross bracing be with Stabilizer
FORCES TOP CHORD WEBS NOTES	(lb) - Max. Con 1-8=-323/294, 2-5=-327/213	np./Max. Ten All fo 2-8=-299/324	(asd=95mph; TCDL=6.0	ept when shown.	- h=20#•	B=20 #	+ I =20#	t eave-Aft C	at II. Ev	n B' F		S (directional)

wind: ASCE /-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directi and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 8-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 1)

2)

Gable requires continuous bottom chord bearing. * 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. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4 and 164 lb uplift at joint 5. 3)

4)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 5)

Job	Truss		Truss Type		Qty	F	Ply	Surle	es Dupl	ex-Roo	f		
Q-2001273-1	V5		Valley		1	1		loh	Roforor	nce (ont	(lenoi		
Peak Truss Builders LLC, New	Hill, user		-	Run: 8.31 S	Sep 9 20)19 Print	t: 8.310 S	S Sep 9	2019 Mi	Tek Indu	stries,	Inc. Mon Jun 08 11:	50:13 Page: 1
						ID:DKde	emukVG2	2PiEf1j_	N?U9iz9	LX1-bBs	UYXVo	lqjCbjEG0x7pkbPC	s35xVRjTw1g75Qdz8Mt8
			, 	7-5-	9								
			I					I					
								2~4					
								2,411					
			_				,	, ,					
				2×	A /	//							
		4		2.	*" />	/		W1	4				
		3-2-1		2 0 4					5-2-1				
		Ű							Ũ				
			12 10 —	SI									
			10										
			- '		B1			4					
			2×4 ¢	××××××××××××××××××××××××××××××××××××××	<u>×××××</u> 4	<u> </u>	XXXX	2×4 u					
			2449	28	- 11			2741					
Scale = 1:39			<u>}</u>	7-5-	9								
Looding	(n of)	Sussing		681		DEEL			(100)	l/dofl	/d		
TCLL (roof)	(psr) 20.0	Plate Grip DOL	2-0-0	TC	0.51	Vert(L	.L)	n/a	(100)	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(T	L)	n/a	-	n/a	999		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP	0.06	Horiz((IL)	0.00	4	n/a	n/a	Weight: 37 lb	FT = 20%
	10.1			E		G		Structur	alwaad	laboath	ning di	reatly applied or	
BOT CHORD 2x4 SP N	lo.1			I		URD	e	except e	and vert	icals.	ing u	recily applied of	0-0-0 oc purins,
WEBS 2x4 SP N OTHERS 2x4 SP N	lo.3			B	BOT CH	ORD	R	Rigid ce	iling dir	ectly ap	oplied	or 10-0-0 oc brad	cing.
REACTIONS (lb/size)	1=113/7-	5-9. (min. 0-1-8). 4=	108/7-5-9. (min. 0-1-8).				i	installe	ecomm d during	enas in 9 truss e	at Sta erectio	n, in accordance	with Stabilizer
Marchlania	5=365/7-	5-9, (min. 0-1-8)					l	Installa	tion gui	de.			
Max Horiz	1=184 (L 4=-42 (L(C 8) C 8), 5=-139 (LC 11)											
Max Grav	1=150 (L	C 17), 4=167 (LC 16	6), 5=407 (LC 16)										
FORCES (Ib) - M TOP CHORD 1-8=-0	Max. Con 285/255	np./Max. Ten All for 2-8=-265/281	rces 250 (lb) or less exc	cept when shown.									
WERS 25-1	,	2 3 200/201											
VVLDS 2-J	281/181												

and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 7-0-2 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=1.60

Gable requires continuous bottom chord bearing. * 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. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 139 lb uplift at joint 5. 2) 3)

4)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 5)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	V6	Valley	1	1	Job Reference (optional)
Peak Truss Builders LLC,	, New Hill, user	·	Run: 8.31 S Sep 9 2019 F ID:D	Print: 8.310 KdemukVG	S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:14 Page: 1 2PiEf1j_N?U9iz9LX1-3OQtmtVFb1LSKOrCVrKz7dl3SVIWAAs3GKtey3z8Mt7
		*	6-3-2		-+
					2x4 II
			24	3	

Scale = 1:35.9			<i>†</i>		6-3-2		\rightarrow					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 31 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x4 SP No.1		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS ((lb/size) 1=95/6-3-2. (min. 0-1-8). 4=90/6-3-2. (min. 0-1-8). 5=305/6-3-2.		installed during truss erection, in accordance with Stabilizer
((min. 0-1-8)		Installation guide.
ſ	Max Horiz 1=153 (LC 8)		
ſ	Max Uplift 4=-35 (LC 8), 5=-114 (LC 11)		
ſ	Max Grav 1=129 (LC 17), 4=103 (LC 16), 5=313 (LC 16)		

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=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-1-9, Interior (1) 3-1-9 to 6-1-11 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 1)

2) Gable requires continuous bottom chord bearing.

* 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 3) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 114 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

	Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
	Q-2001273-1	V7	Valley	1	1	Job Reference (optional)
ľ	Peak Truss Builders LLC, New H	fill, user	Run: 8.31 S Se	ep 9 2019 Pr	int: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:14 Page: 1
				ID:DI	KdemukVG2	PiEf1j_N?U9iz9LX1-3OQtmtVFb1LSKOrCVrKz7dl5VVIqAA13GKtey3z8Mt7
			5-0-12		1	

Scale = 1:32.8		5-0-12											
Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.21	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190	
BCLL BCDL	10.0 0.0* 10.0	Rep Stress Incr Code	1.15 YES IBC2015/TPI2014	BC WB Matrix-MP	0.04	Vert(TL) Horiz(TL)	n/a 0.00	4	n/a n/a	999 n/a	Weight: 24 lb	FT = 20%	
LUMBER TOP CHORD	2x4 SP No.1				BRACIN TOP CH	I G ORD	Structur	ral woo	l sheath	ning dir	rectly applied or	5-1-1 oc purlins	i,

BOT CHORD	2x4 SP No.1		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (I	b/size) 1=77/5-0-12, (min. 0-1-8), 4=72/5-0-12, (min. 0-1-8), 5=245/5-0-12, (min. 0-1-8)		installed during truss erection, in accordance with Stabilizer Installation guide.
N	1ax Horiz 1=121 (LC 8)		
N	1ax Uplift 4=-28 (LC 8), 5=-88 (LC 11)		
N	1ax Grav 1=103 (LC 17), 4=83 (LC 16), 5=251 (LC 16)		
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=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-11-5 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 1)

2) Gable requires continuous bottom chord bearing.

3) * 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 4 and 88 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof	
Q-2001273-1	V8	Valley	1	1	Job Reference (optional)	
Peak Truss Builders LL	Run: 8.31 S	Sep 9 2019 P	rint: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:14	Page: 1	
			ID:D	KdemukVG2	PiEf1j_N?U9iz9LX1-3OQtmtVFb1LSKOrCVrKz7dl73Vl8AAB3GI	<tey3z8mt7< td=""></tey3z8mt7<>
		3-10	6	1		

Scale = 1:29.7					3-10-6							
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IBC2015/TPI2014	CSI TC BC WB Matrix-MP	0.11 0.02 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a n/a	(loc) - - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 18 lb	GRIP 244/190 FT = 20%

LUMBER	
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LUMBER TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1	BRACING TOP CHORD	Structural wood sheathing directly applied or 3-10-10 oc purlins, except end verticals
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (II	b/size) 1=59/3-10-6, (min. 0-1-8), 4=54/3-10-6, (min. 0-1-8), 5=184/3-10-6, (min. 0-1-8)		installed during truss erection, in accordance with Stabilizer Installation guide.
M	lax Horiz 1=90 (LC 8)		
M	lax Uplift 4=-21 (LC 8), 5=-63 (LC 11)		
M	lax Grav 1=78 (LC 17), 4=62 (LC 16), 5=188 (LC 16)		
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=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-8-14 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 1)

2) Gable requires continuous bottom chord bearing.

3) * 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 4 and 63 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

Standard LOAD CASE(S)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof		
Q-2001273-1	V9	Valley	1	1	Job Reference (optional)		
Peak Truss Builders LLC, New Hill, user Run: 8.31 S S				int: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:14 Page: 1		
ID:DKdemukVG2PiEf1j_N?U9iz9LX1-3OQtmtVFb1LSKOrCVrKz7dl8_VHLAAe3GKte							

2x4 II

Scale = 1:26.6				<u>}</u>	2-7-15							
Loading	(psf)	Spacing	2-0-0	CSI	0.05	DEFL	in r/a	(loc)	l/defl	L/d	PLATES	GRIP
TCDL	20.0	Lumber DOL	1.15	BC	0.05	Vert(LL) Vert(TL)	n/a n/a	-	n/a n/a	999 999	WIT20	244/190
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IBC2015/TPI2014	WB Matrix-MP	0.00	Horiz(TL)	0.00	3	n/a	n/a	Weight: 11 lb	FT = 20%

LUMBER TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1	BRACING TOP CHORD	Structural wood sheathing directly applied or 2-8-4 oc purlins, except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS ((lb/size) 1=101/2-7-15, (min. 0-1-8), 3=101/2-7-15, (min. 0-1-8) Max Horiz 1=59 (LC 8) Max Uplift 1=-2 (LC 11), 3=-22 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
I	Max Grav 1=101 (LC 1), 3=107 (LC 16)		
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when show	n.	

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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=1.60 1)

Gable requires continuous bottom chord bearing. 2)

* 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 3) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 3 and 2 lb uplift at joint 1. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof				
Q-2001273-1	V10	Valley	1	1	Job Reference (optional)				
Peak Truss Builders LLC, New	Ak Truss Builders LLC, New Hill, user Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:14								

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:14 Page: 1 ID:DKdemukVG2PiEf1j_N?U9iz9LX1-3OQtmtVFb1LSKOrCVrKz7dl8dVI8AAe3GKtey3z8Mt7

2x4 u

1-5-9 Scale = 1:23.6 Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) l/defl L/d PLATES GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 тс 0.01 Vert(LL) n/a 999 MT20 244/190 n/a TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(TL) 999 n/a n/a BCLL 0.0 Rep Stress Incr YES WB 0.00 Horiz(TL) n/a _ n/a n/a BCDL IBC2015/TPI2014 Matrix-MP Weight: 5 lb FT = 20% 10.0 Code

LUMBER TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1	BRACING TOP CHORD	Structural wood sheathing directly applied or 1-5-14 oc purlins, except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (I N N	b/size) 1=53/1-5-9, (min. 0-1-8), 3=53/1-5-9, (min. 0-1-8) Aax Horiz 1=27 (LC 8) Aax Uplift 1=-2 (LC 11), 3=-11 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES	(Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when show	n.	

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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=1.60

2) Gable requires continuous bottom chord bearing.

3) * 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.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 3 and 2 lb uplift at joint 1.

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job	Trus	ŝS	Truss Type		Qty	Ply	Surles Dup	lex-Roof			
Q-2001273	-1 V11		Valley		1	1	Job Refere	nce (opti	onal)		
Peak Truss Buik	ders LLC, New Hill, us	er 	≁	Run: 8.31 S S	ep 9 2019 ID:	Print: 8.310 u_jDcqfjdL{	S Sep 9 2019 M SRV62lk?hWc9zs 3x4u 5	liTek Indus	tries, Ir	nc. Mon Jun 08 11: 1LSKOrCVrKz7dlx	50:14 Page: 1 1VGUA5K3GKtey3z8Mt7
			$2x4u^{12}$ $10 - 2$ $3x4 + 2x4u$	2x4 _{II} 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		4 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6	10-0-5			
Scale = 1:50.6			ł	12-0-2			ł				
Loading TCLL (roof) TCDL BCLL BCDL	(x, Y): [b:Edge,0-1 (psf) 20.0 10.0 0.0 10.0	* Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IBC2015/TPI2014	CSI TC BC WB Matrix-MS	0.88 Ve 0.19 Ve 0.34 He	EFL ert(LL) ert(TL) oriz(TL)	in (loc) n/a - n/a - 0.00 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 74 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS REACTIONS (lb) -	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 2x4 SP No.3 All bearings 12-0- Max Horiz 1=303 Max Uplift All upl	2. (LC 8) ift 100 (lb) or less at joi	nt(s) 1, 6, 9 except 7=-1	BF TC BC W 12 (LC	RACING DP CHOR DT CHOR EBS	D	Structural woo except end ver Rigid ceiling di 1 Row at midp MiTek recomm installed durin Installation gu	d sheathi ticals. rectly app t nends tha g truss e ide.	ing dir plied c at Stat rectior	ectly applied or (or 6-0-0 oc bracin 5-6 bilizers and requ n, in accordance	6-0-0 oc purlins, ng. ired cross bracing be with Stabilizer
FORCES	11), 8= Max Grav All rea 16), 8= (lb) - Max. C	=-146 (LC 11) ctions 250 (lb) or less a =422 (LC 16), 9=270 (L comp./Max. Ten All fo	at joint(s) 1, 6 except 7= C 1) rces 250 (lb) or less exc	354 (LC cept when shown.							

TOP CHORD 1-2=-461/473, 2-12=-384/351, 3-12=-370/389, 3-13=-261/219, 4-13=-233/265

WEBS 3-8=-287/201, 4-7=-275/186

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 11-10-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 1)

Gable requires continuous bottom chord bearing. 2)

* 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 3) any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 1, 9 except (jt=lb) 8=145, 7=112. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

Job Truss Truss Type Qty Ply Surles Duplex-Roof	
Q-2001273-1 V12 Valley 1 1 1	
Peak Truss Builders LLC, New Hill user	8 11·50·1/ Page: 1
ID:u_jDcqfjdLSRV62lk?hWc9z9K9L-3OQtmtVFb1LSKOrCVrk	z7dl_?VFAA6Q3GKtey3z8Mt7
10-9-11	
3x4u	
4 2x4n	
3	
10 9	
$3x4 \phi$ $2x4 \mu$ $2x4 \mu$ $3x4 \mu$	
Scale = 1:47.5 L 10-9-11 L	
Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) I/defl L/d PLATES TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.69 Vert/(L) p/a p/a 990 MT20	GRIP 244/190
TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(LL) n/a - n/a 999	244/130
BCLL 0.0* Rep Stress Incr YES WB 0.27 Horiz(TL) 0.01 5 n/a n/a	b FT = 20%
LUMBER BRACING	
TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applie BOT CHORD 2x4 SP No.1 except end verticals.	1 or 6-0-0 oc purlins,
WEBS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc t	racing.
OTHERS 2x4 SP No.3 WEBS 1 Row at midpt 4-5 MiTek recommends that Stabilizers and	required cross bracing be
(Ib) - Max Horiz 1=271 (LC 8)	ance with Stabilizer
Max Uplift All uplift 100 (lb) or less at joint(s) 5, 6 except 7=-177 (LC 11) Max Gray, All reactions 250 (lb) or less at joint(s) 1, 5 except 6=200 (LC	
16), 7=536 (LC 16)	
FORCES (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown.	
IOF GIOND I-10-378/333, Z-10-302/300	
BOT CHORD 1-7=-145/277	

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 1) MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Gable requires continuous bottom chord bearing. * 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

2)

3) any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=176. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

Job	Truss		Truss Type		Qty	Ply	Sur	les Dupl	ex-Roo	f		
Q-2001273-1	V13		Valley		1	1	Job	Refere	nce (opt	ional)		
Peak Truss Builders LLC, New	Hill, user			Run: 8.31 S	Sep 9 20	19 Print: 8.3	10 S Sep 9	9 2019 M	iTek Indu	stries, I	nc. Mon Jun 08 11:	50:15 Page: 1
			L	9-	7-5	J.u_JDcqijaL	SRVOZIK	INVC929K	9L-78_F			
			Ť					イ				
							3)	<4 u				
							2x4 µ	1 —				
								-				
					/							
				2	x4 n //		s	W				
		8-0-5		2			12	8-0-5				
			10	10	N L							
		$ _ \downarrow $	- 0-8-4 1					5	Ļ			
			3x4 ¢	2	××××××××× ×4 u		2x4 _{II}	2				
							3)	<4 u				
Scale = 1:44.5			<u>}</u>	9-	7-5			ł				
	(nsf)	Spacing	2-0-0	CSI		DEEL	in	(loc)	l/defl	P/1		GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190
BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.16 0.27	Vert(TL) Horiz(TL)	n/a 0.00	- 5	n/a n/a	999 n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 58 lb	FT = 20%
LUMBER					BRACIN	3						
TOP CHORD 2x4 SP N BOT CHORD 2x4 SP N	lo.1 lo.1				TOP CHO	DRD	Structu except	ral wood end ver	d sheath ticals.	ning di	rectly applied or	6-0-0 oc purlins,
WEBS 2x4 SP N OTHERS 2x4 SP N	10.3				BOT CHO	ORD	Rigid c	eiling di	ectly ap	plied	or 6-0-0 oc braci	ng.
REACTIONS All bearings	9-7-5.						installe	d during	g truss e	erectio	n, in accordance	with Stabilizer
(lb) - Max Horiz Max Uplift	1=240 (L All uplift	.C 8) 100 (lb) or less at ioir	nt(s) except 5=-164 (LC	17).			Installa	ation gui	de.			
Max Gray	6=-109 (l All reacti	LC 11), 7=-161 (LC 1	1)	361 (I C								
	16), 7=49	95 (LC 16)										
FORCES(lb) - ITOP CHORD1-10=W/FDO1-10=	Max. Con -345/317	np./Max. Ten All for , 2-10=-318/349	rces 250 (lb) or less exc	cept when shown.								
WEBS 2-7=-3	313/199,	3-6=-293/234										
1) Wind: ASCE 7-10; Vi and C-C Exterior (2)	ult=120m 0-0-5 to 3	ph (3-second gust) V 3-0-5, Interior (1) 3-0-	/asd=95mph; TCDL=6.0 -5 to 9-5-14 zone; canti	0psf; BCDL=6.0ps lever left and righ	sf; h=30ft; t exposed	B=20ft; L≕ ; end verti	20ft; eave cal left ar	e=4ft; Ca nd right e	at. II; Ex exposed	p B; E l;C-C 1	nclosed; MWFR or members and	S (directional) forces &
MWFRS for reaction	s snown;	Lumber DOL=1.60 p	plate grip DOL=1.60									

Gable requires containing the bord bearing. * 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. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 5, 160 lb uplift at joint 7 and 108 lb uplift at joint 6. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 2) 3)

4)

5)

Job	Truss		Truss Type		Qty	Ply	Surle	s Duplex-F	Roof		
Q-2001273-1	V14		Valley		1	1		Reference (ontional)		
Q-2001273-1 Peak Truss Builders LLC, New	V14 Hill, user		Valley }	Run: 8.31 S S 8-4-14	1 ep 92019 ID:	1 Print: 8.310 J_jDcqfjdLS	Job F S Sep 9 2 SRV62lk?h 2x4 II 3	Reference (2019 MiTek I wc9z9K9L-2	optional) ndustries, I Ka_FzDWtl	nc. Mon Jun 08 11: MLTJyXQO2YrCgql	50:15 Page: 1 l92vcKvcfCV_cBVVz8Mt6
		9-0-2	12 10 - 	2x4	B1 88		4 2x41	9-0-2 4			
Scale = 1:41.4			ł	8-4-14	Ļ		ł				
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IBC2015/TPI2014	CSI TC BC WB Matrix-MP	0.67 Ve 0.15 Ve 0.08 He	EFL ert(LL) ert(TL) oriz(TL)	in n/a n/a 0.00	(loc) l/da - n - n 4 n	efl L/d /a 999 /a 999 /a n/a	PLATES MT20 Weight: 42 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP N BOT CHORD 2x4 SP N WEBS 2x4 SP N OTHERS 2x4 SP N REACTIONS (lb/size) Max Horiz Max Uplift	lo.1 lo.3 lo.3 1=127/8-4 5=412/8-4 1=209 (LC 4=-48 (LC	4-14, (min. 0-1-8), 4 4-14, (min. 0-1-8) C 8) C 8), 5=-158 (LC 11)	=122/8-4-14, (min. 0-1-ł	Bi TC B(RACING DP CHOR DT CHOR	0	Structura except el Rigid cei MiTek re installed Installati	al wood she nd verticals ling directly ecommends I during trus ion guide.	eathing di s. / applied s that Sta ss erectio	rectly applied or or 10-0-0 oc brac bilizers and requ n, in accordance	6-0-0 oc purlins, cing. ired cross bracing be with Stabilizer

Max Grav 1=168 (LC 17), 4=193 (LC 16), 5=478 (LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-8=-315/286, 2-8=-291/315

TOP CHORD

WEBS

NOTES

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5 to 8-3-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2)

2-5=-318/206

 Gable requires continuous bottom chord bearing.

 * 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

 3) any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 4 and 158 lb uplift at joint 5. 4)

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job	Truss		Truss Type		Qty	Ply	Surl	es Dupl	ex-Roof	F		
Q-2001273-1	V15		Valley		1	1	Job	Referer	nce (opt	ional)		
Peak Truss Builder	s LLC, New Hill, user		-	Run: 8.31 S	Sep 9 2019	Print: 8.31	0 S Sep 9	2019 Mi	Tek Indu	stries, Ir	nc. Mon Jun 08 11:	50:15 Page: 1
					ID:u	LjDcqfjdLS	SRV62lk?h	Wc9z9K9	9L-Xa_Fz	DWtML	_TJyXQO2YrCgqIC	BvdRvdzCV_cBVVz8Mt6
			<u>}</u>	7-2-6	3							
							2x4 II					
			12 10	2x4 8 9	4 11 11		o W1	6-0-5				
			— 1		B1		4		_			
			2×4 ¢	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>		2v4 u					
			2749	28	* 11		274 1					
Scale = 1:38.3			L	7-2-8	3		L					
		i	1				1					
Loading	(psf)	Spacing Plate Grip DOI	2-0-0	CSI		EFL ort(LL)	in n/o	(loc)	l/defl	L/d	PLATES	GRIP
TCDL	10.0	Lumber DOL	1.15	BC	0.47 V	ert(TL)	n/a	-	n/a	999	101120	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06 H	oriz(TL)	0.00	4	n/a	n/a	Maiabt 26 lb	FT - 20%
	10.0	Code	IBC2015/1PI2014								weight: So ID	F I = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 2x4 SP No.3			В Т	RACING OP CHOF OT CHOF	RD RD	Structur except o Rigid ce	al wood end vert eiling dir	l sheath icals. ectly ap	ing dir oplied o	ectly applied or or 10-0-0 oc brac	6-0-0 oc purlins, sing.

REACTIONS	(lb/size)	1=109/7-2-8, (min. 0-1-8), 4=104/7-2-8, (min. 0-1-8),
		5=352/7-2-8, (min. 0-1-8)
	Max Horiz	1=177 (LC 8)
	Max Uplift	4=-41 (LC 8), 5=-133 (LC 11)
	Max Grav	1=149 (LC 17), 4=120 (LC 16), 5=363 (LC 16)
FORCES	(lb) -	Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD	1-8=	-276/247, 2-8=-256/271
WEBS	2-5=	-272/174

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 7-1-1 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

installed during truss erection, in accordance with Stabilizer

Installation guide.

2)

 Gable requires continuous bottom chord bearing.

 * 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

 3) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4 and 133 lb uplift at joint 5. 4)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 5)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	V16	Valley	1	1	Job Reference (optional)
Peak Truss Builders LLC, New	Hill, user	Run: 8.31 S Se	p 9 2019 Pr	int: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:15 Page: 1
			ID:u_	jDcqfjdLSR\	/62lk?hWc9z9K9L-Xa_FzDWtMLTJyXQO2YrCgqIFgvelvdHCV_cBVVz8Mt6

6-0-2

Scale = 1:35.2			<u>}</u>		6-0-2		\rightarrow					
Loading	(psf)	Spacing	2-0-0	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP	-						Weight: 29 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x4 SP No.1		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (b/size) 1=91/6-0-2 (min 0-1-8) 4=86/6-0-2 (min 0-1-8) 5=292/6-0-2		installed during truss erection, in accordance with Stabilizer
	(min. 0-1-8)		Installation guide.
N	/lax Horiz 1=146 (LC 8)		
Ν	/ax Uplift 4=-34 (LC 8), 5=-108 (LC 11)		
Ν	Ax Grav 1=123 (LC 17), 4=99 (LC 16), 5=300 (LC 16)		

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=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) 1) and C-C Exterior (2) 0-0-5 to 3-0-1, Interior (1) 3-0-1 to 5-10-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

* 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 3) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 4 and 108 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof		
Q-2001273-1	V17	Valley	1	1	Job Reference (optional)		
Peak Truss Builders LLC, New	Hill, user	Run: 8.31 S Se	ep 9 2019 Pi	rint: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:15 Page: 1		
	lD:u_jDcqfjdLSRV62lk?hWc9z9K9L-Xa_FzDWtMLTJyXQO2YrCgqlHive3vdHCV_cBV\						

Scale = 1:32.1			Ł		4-9-11		┦					
Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.18 0.04	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP	0.04		n/a	-	n/a	n/a	Weight: 23 lb	FT = 20%

LUMBER	2
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LUMBER		BRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-10-0 oc purlins,
BOT CHORD	2x4 SP No.1		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS ((lb/size) 1=73/4-9-11, (min. 0-1-8), 4=68/4-9-11, (min. 0-1-8),		installed during truss erection, in accordance with Stabilizer
(5=232/4-9-11, (min. 0-1-8)		Installation guide.
Ν	Max Horiz 1=115 (LC 8)		
Ν	Max Uplift 4=-27 (LC 8), 5=-83 (LC 11)		
Ν	Max Grav 1=98 (LC 17), 4=79 (LC 16), 5=237 (LC 16)		
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when sho	wn.	
NOTES			

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 1)

2) Gable requires continuous bottom chord bearing.

* 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 3) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 83 lb uplift at joint 5. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

LOAD CASE(S) Standard

	Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof		
	Q-2001273-1	V18	Valley	1	1	Job Reference (optional)		
Peak Truss Builders LLC, New Hill, user Run: 8.31 S				p 9 2019 Pr	int: 8.310 S	Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:16 Page: 1		
		ID:MAHbpAfLOeaH7GdUIjCl9Nz9K9K-?mYdBZXV7ebAah?bcGMRC2qSsJ_ce4gt						

2x4 II

3-7-5

CSI

BC

Matrix-MP

2-0-0

1.15 тс

1.15

YES WB

IBC2015/TPI2014

Structural wood sheathing directly applied or 3-7-10 oc purlins,

REACTIONS (II	ysize)	1=55/3-7-5	(min	0-1-8)	4=5
OTHERS	2x4 SP	No.3			
WEBS	2x4 SP	No.3			
BOT CHORD	2x4 SP	No.1			
TOP CHORD	2x4 SP	No.1			

in. 0-1-8), 4=51/3-7-5, (min. 0-1-8), 5=171/3-7-5, ((min. 0-1-8)

Max Horiz 1=83 (LC 8)

(psf)

20.0

10.0

0.0

10.0

Max Uplift 4=-20 (LC 8), 5=-58 (LC 11)

Max Grav 1=72 (LC 17), 4=58 (LC 16), 5=175 (LC 16)

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

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

NOTES

Scale = 1:29.1

Loading

TCDL

BCLL

BCDL

TCLL (roof)

LUMBER

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 1) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-5-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

* 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 3) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 4 and 58 lb uplift at joint 5. 4)

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 5)

LOAD CASE(S) Standard BRACING TOP CHORD

BOT CHORD

0.09

0.02

0.03

DEFL

Vert(LL)

Vert(TL)

Horiz(TL)

in

n/a

n/a

n/a

(loc)

l/defl

n/a 999

n/a

n/a

except end verticals.

L/d

999

n/a

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

PLATES

Weight: 17 lb

MT20

GRIP

244/190

FT = 20%

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof	
Q-2001273-1	V19	Valley	1	1	Job Reference (optional)	
Peak Truss Builders LLC, New H	k Truss Builders LLC, New Hill, user Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Mon Jun 08 11:50:16					

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2x4 II

Scale = 1:26.4				+	2-4-14	\rightarrow						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%
		•	1									•

LUMBER	BRACING	
TOP CHORD 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-5-3 oc purlins,
BOT CHORD 2x4 SP No.1		except end verticals.
WEBS 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 1=90/2-4-14, (min. 0-1-8), 3=90/2-4-14, (min. 0-1-8) Max Horiz 1=52 (LC 8) Max Uplift 1=-2 (LC 11), 3=-20 (LC 11) Max Crox 1=00 (LC 1), 2=06 (LC 16)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FURCES (ID) - Max. Comp./Max. Ien All forces 250 (Ib) or less except	wnen snown.	

NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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=1.60 1)

Gable requires continuous bottom chord bearing. 2)

* 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 3) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 3 and 2 lb uplift at joint 1. This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 4)

5)

Job	Truss	Truss Type	Qty	Ply	Surles Duplex-Roof
Q-2001273-1	V20	Valley	1	1	Job Reference (optional)

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Scale = 1:25

Plate Offsets (X, Y): [3:Edge,0-1-12]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 4 lb	FT = 20%

LUMBER	BRACING	
TOP CHORD 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 1-2-13 oc purlins,
BOT CHORD 2x4 SP No.1		except end verticals.
WEBS 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 1=42/1-2-8, (min. 0-1-8), 3=42/1-2-8, (min. 0-1-8) Max Horiz 1=21 (LC 8) Max Uplift 1=-2 (LC 11), 3=-9 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
Max Grav 1=42 (LC 1), 3=44 (LC 16)		

FORCES NOTES

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 1) 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=1.60

2)

Gable requires continuous bottom chord bearing. * 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 3) any other members.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 3 and 2 lb uplift at joint 1.

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

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.