Job	Truss	Truss Type	Qty	Ply	
Q2201836	A01	Common Supported Gable	3	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Mon Dec 12 09:23:39 Page: 1 ID:Y4XATR7wEWzDNAQfle95tkyBCk5-cZM7S?lqCTOW9NXC64HqJxbq0I96E6ZqrVvfczy9mKJ



- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 12-11-8, Corner (3) 12-11-8 to 15-11-8, Exterior (2) 15-11-8 to 26-10-0 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 qualified building designer as per ANSI/TPI 1.
- 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 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	
Q2201836	A02	Common	14	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Mon Dec 12 09:23:39 Page: 1 ID:yBG9E5a7WudzJsImQvKmtXyBCjW-4IwVfLJSznWNnX6Ogoo3s87vLiKczW0z49fD8Py9mKI

-p-11-p 26-10-0 6-9-0 12-11-8 19-2-0 25-11-0 6-9-0 6-2-8 6-2-8 6-9-0 0-11-0 4x5 4 _12 6Г 18 19 2x4 2x4 3 5 6-9-15 17 20 6 0-4-3 B2 10 21 9 22 8 3x4 3x4 3x4 3x4 3x4 8-9-13 17-1-3 25-11-0 8-9-13 8-9-13 8-3-5 Scale = 1:49.8

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

7-3-3

	o (x, 1). [2.0 0 1,20g0],	, [0.0 0 1,Edg0]										
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 1.00 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-AS	0.49 0.75 0.26	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.19 -0.30 0.05 0.06	(loc) 8-10 8-16 6 10-13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 118 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHOR BOT CHOR WEBS BRACING TOP CHOR BOT CHOR	 D 2x4 SP No.2 D 2x4 SP No.2 2x4 SP No.3 D Structural wood she D Rigid ceiling directly 	eathing directly applied	 6) This truss is Internationa R802.10.2 a 7) This truss do structural wo chord and 1. the bottom of 	designed in acc Residential Co nd referenced s esign requires th ood sheathing b /2" gypsum she shord. Standard	cordance w de sections standard AN nat a minim e applied di etrock be a	ith the 2015 R502.11.1 : ISI/TPI 1. um of 7/16" irrectly to the pplied direct	and top ly to					
REACTION	S (lb/size) 2=1092/0 6=1092/0 Max Horiz 2=-99 (LC Max Uplift 2=-30 (LC	-3-8, (min. 0-1-8), -3-8, (min. 0-1-8) C 10) C 12), 6=-30 (LC 12)		Standard								
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 25	0									
TOP CHOR BOT CHOR WEBS	 (lb) or less except w 2-17=-1810/94, 3-17 3-18=-1621/129, 4- 4-19=-1528/146, 5- 5-20=-1764/124, 6-2 2-10=-25/1578, 10-2 9-22=0/1039, 8-22= 4-8=-8/650, 5-8=-40 3-10=-405/127 	/hen shown. 7=-1764/124, 18=-1528/146, 19=-1621/129, 20=-1810/95 21=0/1039, 9-21=0/103 0/1039, 6-8=-36/1578 15/127, 4-10=-8/650,	39,									
NOTES	0.10 100/121											
1) Unbalar	iced roof live loads have	e been considered for t	his									
 design. Wind: A Vasd=9! B=45ft; MWFRS 2-1-0, Ir 15-11-8, left and exposed reaction reaction DOL=1. This true 	SCE 7-10; Vult=120mpf 5mph; TCDL=6.0psf; BC L=26ft; eave=4ft; Cat. II 5 (directional) and C-C E terior (1) 2-1-0 to 12-11 Interior (1) 15-11-8 to 2 right exposed ; end vert t;C-C for members and s shown; Lumber DOL= 60	n (3-second gust) DDL=6.0psf; h=25ft; ; Exp B; Enclosed; Exterior (2) -0-11-0 to -8, Exterior (2) 12-11-8 26-10-0 zone; cantileve tical left and right forces & MWFRS for =1.60 plate grip	8 to Pr									
5) This true	s nas been designed it	a iu.u psi bullum										

- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 4) 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 30 lb uplift at joint 2 and 30 lb uplift at joint 6.



6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply		
Q2201836	B01	Common Supported Gable	1	1	Job Reference (optional)	
Carolina Structural Systems, Star, NC 27356, Jeremy Phillips		Run: 8.62 S Oct 13	2022 Print: 8	3.620 S Oct 7	13 2022 MiTek Industries, Inc. Mon Dec 12 09:23:40	Page: 1

ID:VpH3jBBVIFwtJYaNLPDUv4yBCik-YyUuthK5k5eEOghbDVKIOMgAp6r2i1W6JpOmgry9mKH



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 100 lb	FT = 20%	

LUMBER

LOWIDER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly an
	District a stilling of the set of the second set

.beilaa BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 19-11-0.

- (lb) Max Horiz 2=77 (LC 11), 23=77 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s) 2, 12, 14, 15, 16, 17, 19, 20, 21, 22, 23, 27 Max Grav All reactions 250 (lb) or less at joint
- (s) 2, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 27 FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-11-0 to 1-11-8, Exterior (2) 1-11-8 to 9-11-8, Corner (3) 9-11-8 to 12-11-8, Exterior (2) 12-11-8 to 20-10-0 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 DOI = 1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 8) 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 9) bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12, 2, 12.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and
- R802.10.2 and referenced standard ANSI/TPI 1. 11) This truss design requires that a minimum of 7/16"
- structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
Q2201836	B02	Common	9	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Mon Dec 12 09:23:40 Page: 1

9-11-8

7



9-11-8

Scale = 1	1:41.7
-----------	--------

5-9-3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.15	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.33	8-11	>724	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	l	Wind(LL)	0.03	8-11	>999	240	Weight: 89 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3		 This truss de structural we chord and 1, the bottom c LOAD CASE(S) 	esign requires to bod sheathing b 2" gypsum she hord. Standard	hat a minim e applied di etrock be a	um of 7/16" rectly to the oplied direct	top ly to					
TOP CHORD BOT CHORD	Structural wood she Rigid ceiling directly	eathing directly applied. / applied.										
REACTIONS	(lb/size) 2=852/0-3 6=852/0-3 Max Horiz 2=77 (LC Max Uplift 2=-29 (LC	3-8, (min. 0-1-8), 3-8, (min. 0-1-8) 11) 2 12), 6=-29 (LC 12)										
FORCES	(lb) - Max. Comp./M	ax. Ten All forces 250)									
TOP CHORD	(lb) or less except w 2-15=-1344/98, 3-15 3-16=-1010/77, 4-16 5-17=-1010/77, 5-18 6-18=-1344/99	rhen shown. 5=-1314/120, 6=-937/93, 4-17=-937/9 3=-1314/120,	3,									
BOT CHORD	2-8=-34/1179, 6-8=-	46/1179										
NEBS	4-8=0/606, 5-8=-399	9/108, 3-8=-399/109										
NOTES												
 Unbalanc design. 	ed roof live loads have	e been considered for t	nis									
 Wind: AS Vasd=95r B=45ft; L MWFRS 2-1-0, Intr 12-11-8, I left and ri 	CE 7-10; Vult=120mpf nph; TCDL=6.0psf; BC =24ft; eave=4ft; Cat. II (directional) and C-C E erior (1) 2-1-0 to 9-11-8 nterior (1) 12-11-8 to 2 ght exposed ; end vert	n (3-second gust) DDL=6.0psf; h=25ft; ; Exp B; Enclosed; Exterior (2) -0-11-0 to 8, Exterior (2) 9-11-8 to 00-10-0 zone; cantileve ical left and right	r									

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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- 4) 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 5) bearing plate capable of withstanding 29 lb uplift at joint 2 and 29 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
Q2201836	C01	Common	1	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Mon Dec 12 09:23:40 Page: 1 ID:HFS4Ncj9rGwr23noHa?GYsyBCgI-YyUuthK5k5eEOghbDVKIOMg916omi036JpOmgry9mKH







Sca	le	=	1	:27	

BOT CHORD

WEBS

OTHERS

3cale - 1.27						I							
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.11	Vert(LL)	-0.01	10	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.02	10	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.02	8	>999	240	Weight: 32 lb	FT = 20%	
LUMBER TOP CHORD	2x4 SP No.2		8) This truss is International	designed in ac Residential Co	cordance worde sections	ith the 2015 R502.11.1	and						

International Residential Code sections R502.11.1
P802 10 2 and referenced standard ANSI/TPL1

LOAD CASE(S) Standard

R802.10.2 and referenced standard ANSI/TF This truss design requires that a minimum of 7/16" 9)

structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(lb/size)	2=362/0-3-0, (min. 0-1-8),				
		6=362/0-3-0, (min. 0-1-8)				
	Max Horiz	2=-33 (LC 10)				
	Max Uplift	2=-90 (LC 12), 6=-90 (LC 12)				
FORCES	(lb) - Max	. Comp./Max. Ten All forces 250				
	(lb) or less except when shown.					

TOP CHORD	2-3=-381/280, 3-4=-381/306, 4-5=-381/306,
	5-6=-381/280
BOT CHORD	2-10=-195/326 9-10=-195/326

8-9=-195/326, 6-8=-195/326 NOTES

2x4 SP No.2

2x4 SP No.3

2x4 SP No.3

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 1-10-0, Interior (1) 1-10-0 to 3-10-0, Exterior (2) 3-10-0 to 7-1-8, Interior (1) 7-1-8 to 8-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable studs spaced at 2-0-0 oc. 4)
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 2 and 90 lb uplift at joint 6.

Job	Truss	Truss Type	Qty	Ply	
Q2201836	C02	Common	2	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, Jeremy Phillips Run: 8.62 S Oct

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Mon Dec 12 09:23:40 Page: 1 ID:5PpLefowQ6h?m_Fxer6go7yBCgf-YyUuthK5k5eEOghbDVKIOMg846oNi0C6JpOmgry9mKH







Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.01	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.02	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.01	6-12	>999	240	Weight: 30 lb	FT = 20%

LOAD CASE(S) Standard

LUMBER

Scale = 1:27

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheath

TOP CHORDStructural wood sheathing directly applied.BOT CHORDRigid ceiling directly applied.

REACTIONS	(lb/size)	2=362/0-3-0, (min. 0-1-8),
		4=362/0-3-0, (min. 0-1-8)
	Max Horiz	2=-33 (LC 10)
	Max Uplift	2=-90 (LC 12), 4=-90 (LC 12)
FORCES	(lb) - Max (lb) or les	. Comp./Max. Ten All forces 250 s except when shown.

TOP CHORD 2-13=-400/289, 3-13=-353/297, 3-14=-353/297, 4-14=-400/289

BOT CHORD 2-6=-192/315, 4-6=-192/315

NOTES

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-10-0, Exterior (2) 3-10-0 to 7-1-8, Interior (1) 7-1-8 to 8-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 2 and 90 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.