



RE: 3264866 - IC CONST. - KING RES.

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: King Res. Model: Custom

Lot/Block: N/A Subdivision: N/A

Address: TBD, TBD

City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 38 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T28611337	CJ01	8/24/22	15	T28611351	T01G	8/24/22
	T28611338	CJ02	8/24/22	16	T28611352	T02	8/24/22
3	T28611339	CJ02A	8/24/22	17	T28611353	T02G	8/24/22
4	T28611340	CJ03	8/24/22	18	T28611354	T03	8/24/22
5	T28611341	CJ04	8/24/22	19	T28611355	T03G	8/24/22
<u>6</u>	T28611342	CJ04A	8/24/22	20	T28611356	T04	8/24/22
8	T28611343	CJ05	8/24/22	21	T28611357	T05	8/24/22
	T28611344	CJ08	8/24/22	22	T28611358	T06	8/24/22
9	T28611345	EJ01	8/24/22	23	T28611359	T07	8/24/22
10	T28611346	HJ06	8/24/22	24	T28611360	T08	8/24/22
11	T28611347	HJ10	8/24/22	25	T28611361	T09G	8/24/22
12	T28611348	PB01	8/24/22	26	T28611362	T10	8/24/22
13	T28611349	PB01G	8/24/22	27	T28611363	T11	8/24/22
14	T28611350	T01	8/24/22	28	T28611364	T12	8/24/22



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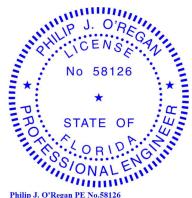
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



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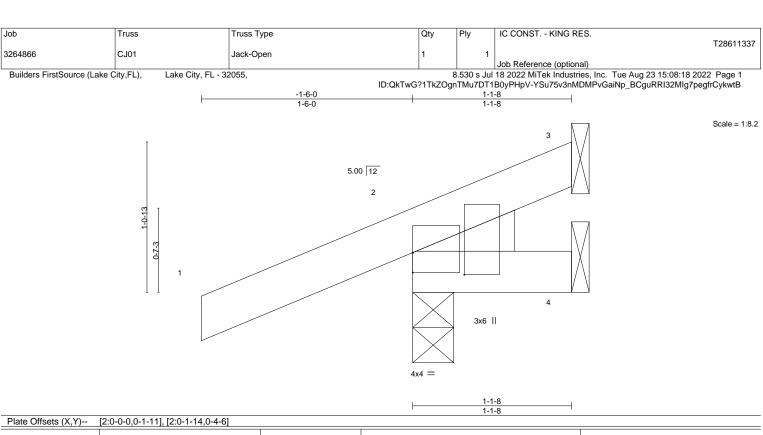
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Lot/Block: N/A Address: TBD, TBD

City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T28611365	T13	8/24/22
30	T28611366	T13G	8/24/22
31 32	T28611367	T14 T15	8/24/22
32 33	T28611368 T28611369	T16	8/24/22 8/24/22
34	T28611370	†10 †17	8/24/22
35	T28611371	Ť18	8/24/22
36	T28611372	T19	8/24/22
37	T28611373	T20	8/24/22
38	T28611374	V01	8/24/22



LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) 0.00 5 >999 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 BC 0.01 0.00 5 >999 180 0.0 WB **BCLL** Rep Stress Incr YES 0.00 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 7 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=34(LC 12)

Max Uplift 3=-5(LC 9), 2=-80(LC 8), 4=-11(LC 1) Max Grav 3=6(LC 3), 2=177(LC 1), 4=11(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2, 4.

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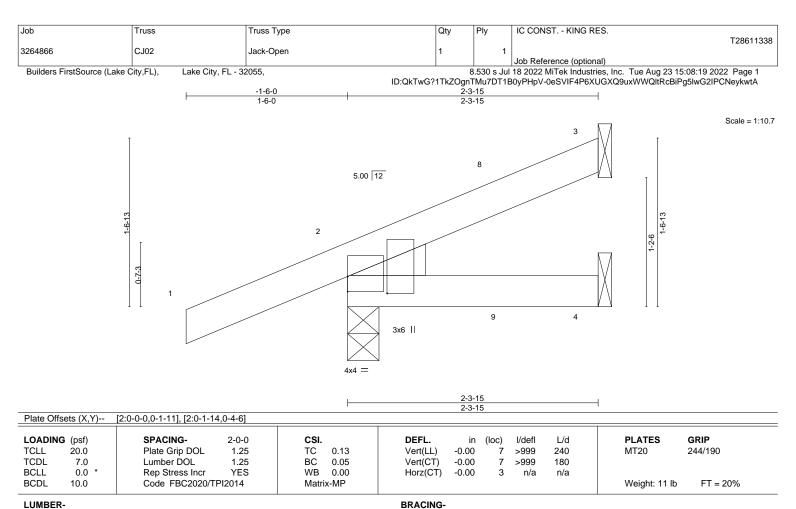
Structural wood sheathing directly applied or 1-1-8 oc purlins.

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

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August 24,2022

16023 Swingley Ridge Rd



TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=51(LC 12)

Max Uplift 3=-23(LC 12), 2=-78(LC 8), 4=-13(LC 9) Max Grav 3=39(LC 1), 2=192(LC 1), 4=35(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-3-3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

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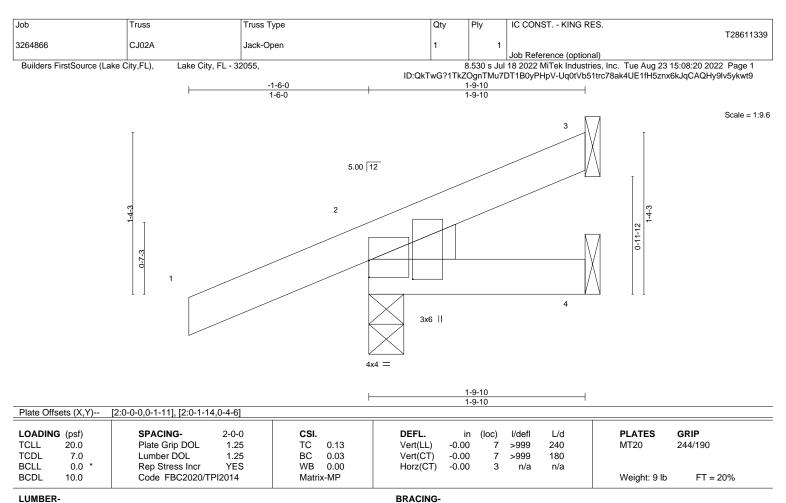
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd

Structural wood sheathing directly applied or 2-3-15 oc purlins.

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



TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=44(LC 12)

Max Uplift 3=-15(LC 12), 2=-77(LC 8), 4=-10(LC 9) Max Grav 3=24(LC 1), 2=181(LC 1), 4=26(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2, 4.

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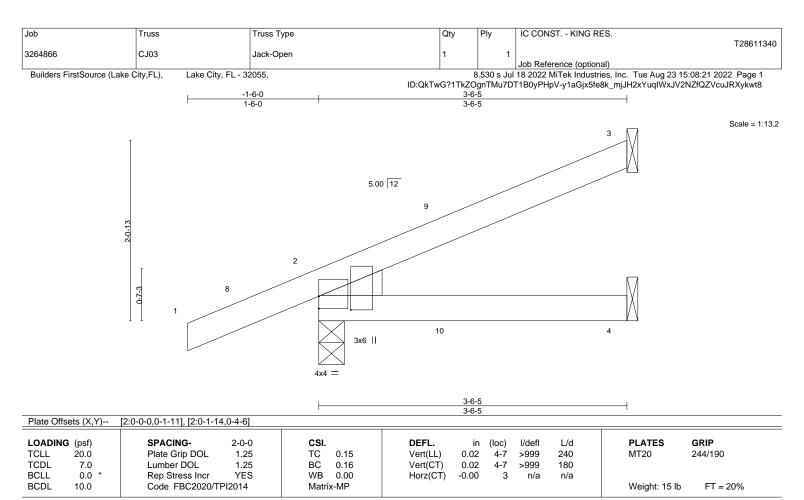
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Structural wood sheathing directly applied or 1-9-10 oc purlins.

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

16023 Swingley Ridge Rd



TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=68(LC 12)

Max Uplift 3=-41(LC 12), 2=-87(LC 8), 4=-21(LC 9)

Max Grav 3=73(LC 1), 2=227(LC 1), 4=59(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-5-9 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2, 4.

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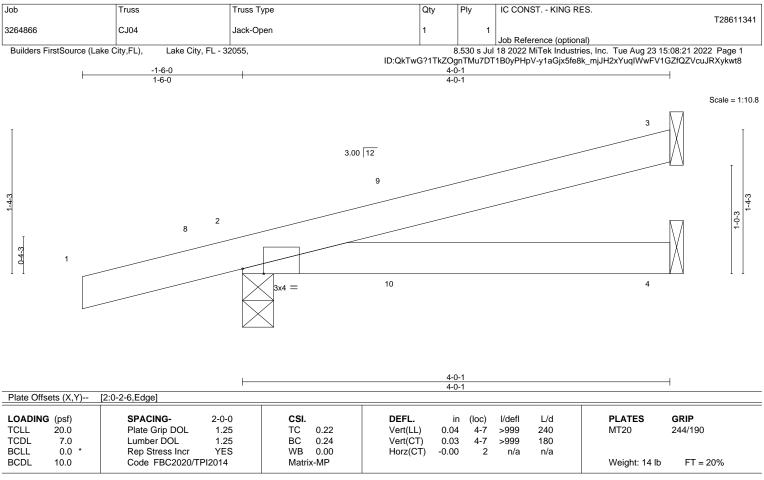
August 24,2022





Structural wood sheathing directly applied or 3-6-5 oc purlins.

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



LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-0-1 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=51(LC 8)

Max Uplift 3=-43(LC 8), 2=-134(LC 8), 4=-23(LC 8) Max Grav 3=84(LC 1), 2=242(LC 1), 4=66(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-11-5 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=134.

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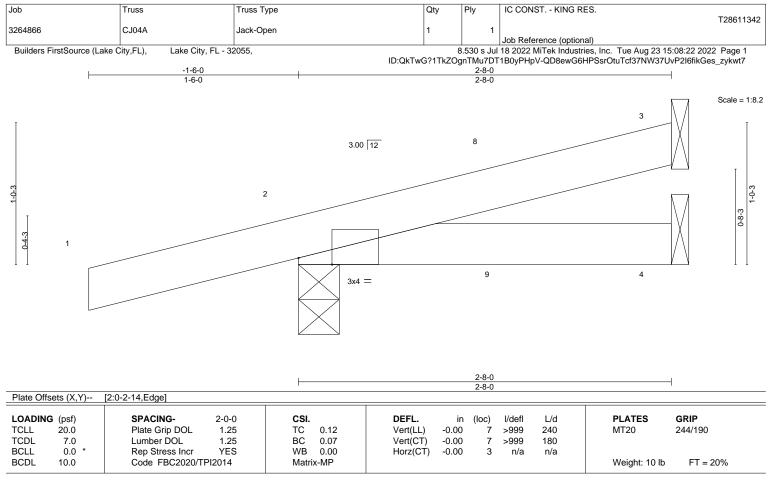
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LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-8-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=40(LC 8)

Max Uplift 3=-23(LC 8), 2=-117(LC 8), 4=-13(LC 9) Max Grav 3=47(LC 1), 2=201(LC 1), 4=40(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-7-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 4 except (jt=lb)

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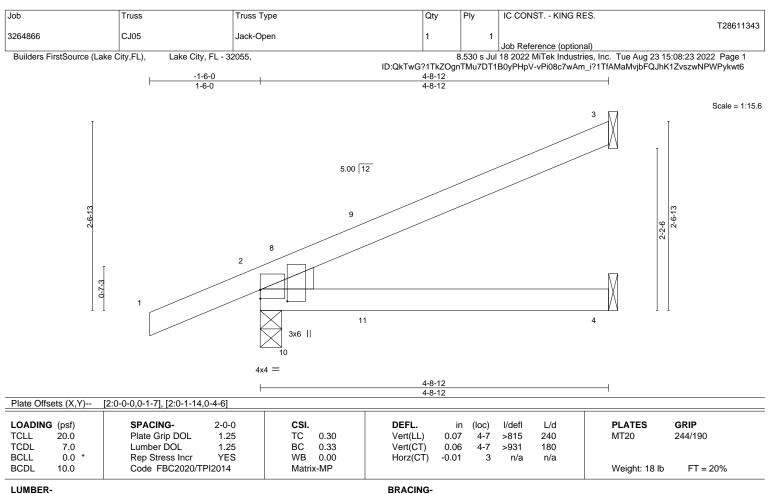


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TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=85(LC 12)

Max Uplift 3=-58(LC 12), 2=-98(LC 8), 4=-28(LC 9) Max Grav 3=104(LC 1), 2=267(LC 1), 4=82(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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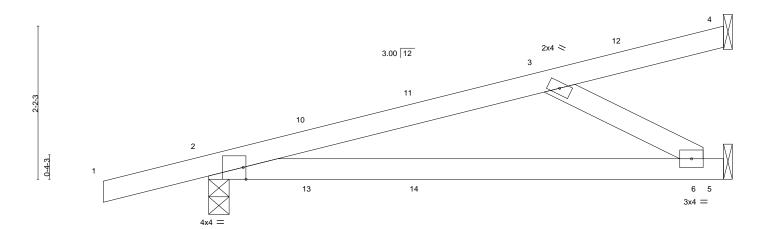


Structural wood sheathing directly applied or 4-8-12 oc purlins.

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



Scale = 1:16.4



		7-4-1	
		7-4-1	
te (X V)	[2:0-0-8 Edge]		

Plate Oil	SelS (A, T)	[2.0-0-6,Euge]										
LOADIN	\(\(\)		-0-0	CSI.		DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	1.25	TC	0.49	Vert(LL)	0.23	6-9	>382	240	MT20	244/190
TCDL	7.0	Lumber DOL 1	1.25	BC	0.61	Vert(CT)	0.20	6-9	>442	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI20)14	Matri	x-MS						Weight: 28 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

-1-6-0 1-6-0

Max Horz 2=80(LC 8)

Max Uplift 4=-15(LC 3), 2=-186(LC 8), 5=-121(LC 8) Max Grav 4=25(LC 1), 2=359(LC 1), 5=236(LC 1)

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

TOP CHORD 2-3=-347/363 **BOT CHORD** 2-6=-445/330 WFBS 3-6=-377/509

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-3-5 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=186, 5=121,

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022



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

Rigid ceiling directly applied or 6-6-12 oc bracing.

16023 Swingley Ridge Rd Chesterfield, MO 63017

IC CONST. - KING RES. Job Truss Truss Type Qty Ply T28611345 3264866 EJ01 8 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:25 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-ropmZl8AiNEQFLd2Hncq_8hWL7KxVSP9QEsWalykwt4

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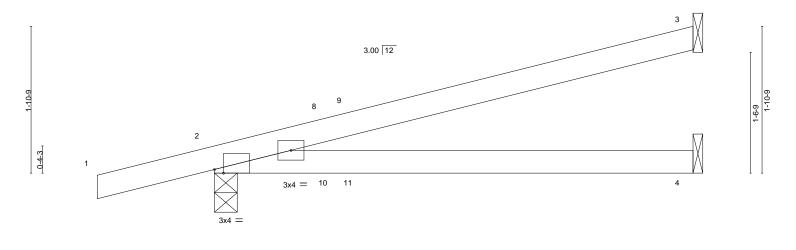


Plate Off	sets (X,Y)	[2:0-1-6,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.19	4-7	>378	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	0.17	4-7	>436	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 21 lb	FT = 20%	

LUMBER-

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

BRACING-

6-1-8

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

-1-6-0 1-6-0

Max Horz 2=69(LC 8)

Max Uplift 3=-72(LC 8), 2=-167(LC 8), 4=-38(LC 8) Max Grav 3=139(LC 1), 2=315(LC 1), 4=106(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-0-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=167.

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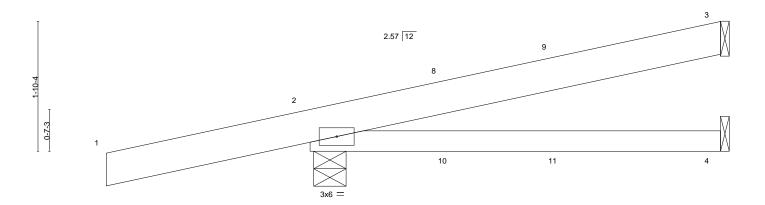
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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply IC CONST. - KING RES T28611346 3264866 HJ06 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:26 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-J_N9me9oThMHsVBErV83XMDmbWj6Evflfuc47kykwt3

Scale = 1:16.5



			5-9-14	<u> </u>
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) -0.03 4-7 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.26	Vert(CT) -0.06 4-7 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP	, ,	Weight: 30 lb $FT = 20\%$

BRACING-TOP CHORD

BOT CHORD

5-10-8

Structural wood sheathing directly applied or 5-10-8 oc purlins.

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

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.2 BOT CHORD 2x4 SP No 2

(size) 3=Mechanical, 4=Mechanical, 2=0-5-9

Max Horz 2=72(LC 19) Max Uplift 3=-113(LC 8), 4=-53(LC 5), 2=-238(LC 4) Max Grav 3=218(LC 1), 4=154(LC 3), 2=414(LC 1)

2-11-0

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4 except (jt=lb)
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 16 lb down and 24 lb up at 2-0-0, and 10 lb down and 13 lb up at 3-6-15, and 87 lb down and 82 lb up at 5-9-12 on top chord, and 11 lb down and 20 lb up at 2-0-0, and 7 lb down and 13 lb up at 3-6-15, and 67 lb down and 57 lb up at 5-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-3=-54, 4-5=-20 Concentrated Loads (lb)

Vert: 3=-87(F) 4=-55(F) 10=-5(F) 11=3(B)

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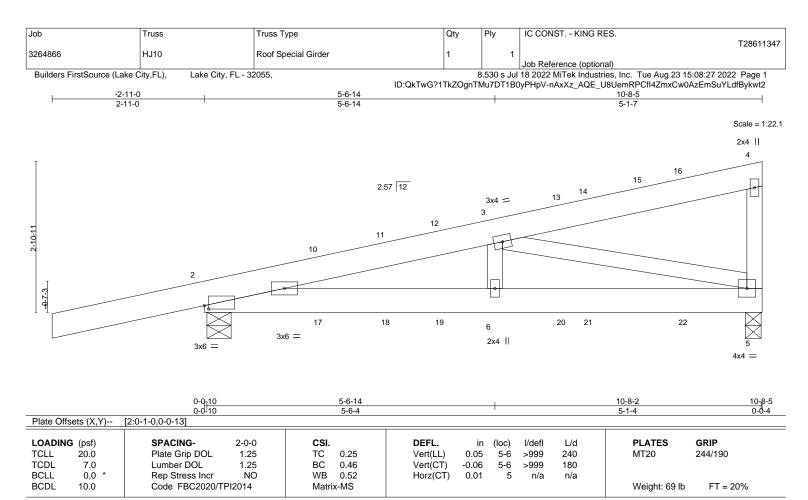
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No 3 WFBS

REACTIONS. (size) 5=0-3-10, 2=0-5-9 Max Horz 2=102(LC 22)

Max Uplift 5=-317(LC 4), 2=-366(LC 4) Max Grav 5=571(LC 1), 2=644(LC 1)

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

TOP CHORD 2-3=-1094/565

BOT CHORD 2-6=-595/1045, 5-6=-595/1045 WFBS 3-6=-139/325, 3-5=-1033/588

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=317, 2=366.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 47 lb down and 51 lb up at 2-3-3, 29 lb down and 49 lb up at 3-6-11, 15 lb down and 24 lb up at 4-7-2, 28 lb down and 47 lb up at 6-11-2, and 12 lb down and 43 lb up at 7-5-5, and 41 lb down and 68 lb up at 9-3-2 on top chord, and 28 lb down and 34 lb up at 2-3-3, 26 lb down and 34 lb up at 3-6-11, 13 lb down and 19 lb up at 4-7-2, 26 lb down and 31 lb up at 6-11-2, and 197 lb down and 164 lb up at 7-5-5, and 39 Ib down and 42 lb up at 9-3-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 5-7=-20 Concentrated Loads (lb)

Vert: 11=-1(B) 13=-10(F) 14=30(B) 16=-41(F) 18=-11(B) 19=-1(F) 20=-15(F) 21=-197(B) 22=-32(F)

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

Rigid ceiling directly applied or 9-2-1 oc bracing.

except end verticals.

Job Truss Truss Type Qty Ply IC CONST. - KING RES T28611348 3264866 PB01 18 Piggyback Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:28 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-FNVvBKB2?Ic_6oLdyvAXcnJ8SKSYippb6C5ABdykwt1 , 6-10-0 3-5-0 Scale = 1:14.1 4x4 = 3 7.00 12 2 0-4-5 6 2x4 = 2x4 || 2x4 = 6-10-0 6-10-0 **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSL DEFL. in (loc) I/defI I/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.09 Vert(LL) 0.00 5 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.07 Vert(CT) 0.00 n/r 120 WB 0.02 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 4 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-P Weight: 21 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 **OTHERS** REACTIONS. (size) 2=5-1-11, 4=5-1-11, 6=5-1-11 Max Horz 2=-40(LC 10)

Max Uplift 2=-43(LC 12), 4=-48(LC 13), 6=-14(LC 12) Max Grav 2=131(LC 1), 4=131(LC 1), 6=177(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply IC CONST. - KING RES T28611349 3264866 PB01G **GABLE** 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:29 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-jZ3HOgCgmckrjywpWdhm9_rKqkpBRG9kLsqkj3ykwt0 Scale = 1:12.2 4x4 = 3 7.00 12 -7-14 2 5 0-4-5 6 2x4 = 2x4 || 2x4 = 5-8-2 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI I/d **PLATES TCLL** 20.0 Plate Grip DOL 1.25 TC 0.05 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.04 Vert(CT) 0.00 n/r 120 WB 0.02 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 4 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-P Weight: 17 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-8-2 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WFBS

REACTIONS. (size) 2=3-11-13, 4=3-11-13, 6=3-11-13

Max Horz 2=-33(LC 10)

Max Uplift 2=-37(LC 12), 4=-41(LC 13), 6=-10(LC 12) Max Grav 2=109(LC 1), 4=109(LC 1), 6=135(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

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Job Truss Truss Type Qty Ply IC CONST. - KING RES T28611350 3264866 T01 2 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:30 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-Bldfc?CJXvsiL6V?4KC?hCORn80MAhuuaWaHGVykwt? 8-5-0 16-10-0 18-4-0 4-0-5 1-6-0 Scale = 1:34.5 4x4 = 7.00 12 18 2x4 > 2x4 / 19 0-4-10 9 8 3x6 = 3x8 = 3x6 = 3x6 = 8-5-0 16-10-0 8-5-0 Plate Offsets (X,Y)--[2:0-6-0,0-0-3], [6:0-6-0,0-0-3]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.
TCLL	20.0	Plate Grip DOL	1.25	TC 0.30
TCDL	7.0	Lumber DOL	1.25	BC 0.62
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.18
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS

BRACING-

in (loc)

-0.08 8-15

-0.16 8-15

0.02

I/defI

>999

>999

n/a

6

L/d

240

180

n/a

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

PLATES

Weight: 81 lb

MT20

GRIP

244/190

FT = 20%

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

2x4 SP No 2 2x4 SP No.3 WFBS

> (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-127(LC 10)

Max Uplift 2=-159(LC 12), 6=-159(LC 13) Max Grav 2=704(LC 1), 6=704(LC 1)

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

TOP CHORD 2-3=-928/206, 3-4=-702/162, 4-5=-702/162, 5-6=-928/206

BOT CHORD 2-8=-188/785, 6-8=-118/783

WFBS 4-8=-54/463, 5-8=-282/165, 3-8=-282/165

NOTES-

LUMBER-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 8-5-0, Exterior(2R) 8-5-0 to 11-5-0, Interior(1) 11-5-0 to 18-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=159, 6=159.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

IC CONST. - KING RES. Job Truss Truss Type Qty Ply T28611351 3264866 T01G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:31 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-gyB2pLDxID_ZzG4Ce2jEEPxe7XVfvAF1pAJroyykwt_ 16-10-0 18-4-0 8-5-0 8-5-0 1-6-0 Scale = 1:34.3 4x4 = 7 8 6 7.00 12 9 5 3x10 || 3x10 | 10 23 12 4x8 || 4x8 || 21 20 19 18 17 16 15 14 3x6 =16-10-0

LUMBER-TOP CHORD

OTHERS

2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No 3

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-10-0.

Max Horz 2=120(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 19, 20, 21, 16, 15, 14

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 8-5-0, Corner(3R) 8-5-0 to 11-5-0, Exterior(2N) 11-5-0 to 18-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 16, 15, 14.

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August 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Chesterfield, MO 63017

IC CONST. - KING RES. Job Truss Truss Type Qty Ply T28611352 3264866 T02 6 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:33 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-cKloE1FBpqEHCZEalTmiJq0xnLyuNz8KGUoxsqykwsy 17-4-0 23-4-15 29-0-0 34-8-0 36-2-0 6-0-15 5-8-0 5-7-0 6-0-15 5-7-0 5-8-0 Scale = 1:67.6 4x4 = 6 7.00 12 23 3x4 🖊 3x4 ≥ 3x6 / 3x6 <> Bracing 8 2x4 \\ 2x4 // 3 10 16 15 13 28 12 14 3x6 = 3x4 4x6 = 4x6 = 3x4 3x8 =3x6 =26-2-10 34-8-0 8-5-6 8-10-10 8-10-10 Plate Offsets (X,Y)--[10:0-2-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.37 Vert(LL) -0.25 12-14 >999 240 MT20 244/190 TCDL 1.25 вс Vert(CT) 7.0 Lumber DOL 0.95 -0.41 12-14 >999 180

Horz(CT)

BRACING-

WFBS

TOP CHORD

BOT CHORD

0.10

10

1 Row at midpt

n/a

n/a

Rigid ceiling directly applied or 2-2-0 oc bracing.

Structural wood sheathing directly applied or 3-6-5 oc purlins.

7-14 5-14

Weight: 190 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

2x4 SP No 3 WFBS REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=242(LC 11) Max Uplift 2=-293(LC 12), 10=-293(LC 13) Max Grav 2=1562(LC 19), 10=1562(LC 20)

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD 2-3=-2452/434, 3-5=-2297/426, 5-6=-1566/354, 6-7=-1566/354, 7-9=-2297/426,

YES

9-10=-2452/435

 $2\text{-}16\text{=-}445/2249,\ 14\text{-}16\text{=-}294/1827,\ 12\text{-}14\text{=-}180/1701,\ 10\text{-}12\text{=-}282/2068}$ BOT CHORD 6-14=-224/1236, 7-14=-686/270, 7-12=-91/607, 9-12=-283/177, 5-14=-686/270, **WEBS**

5-16=-91/607, 3-16=-283/177

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-4-0, Exterior(2R) 17-4-0 to 20-9-10, Interior(1) 20-9-10 to 36-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.46

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=293, 10=293.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply IC CONST. - KING RES T28611353 3264866 T02G **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:35 2022 Page 1

ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-YjQYfjGRLSV?StOzttoAOF5GA9gyrv5djoH2wjykwsw 17-4-0 23-4-15 29-0-0 34-8-0 6-0-15 6-0-15 1-6-0

Scale = 1:68.3

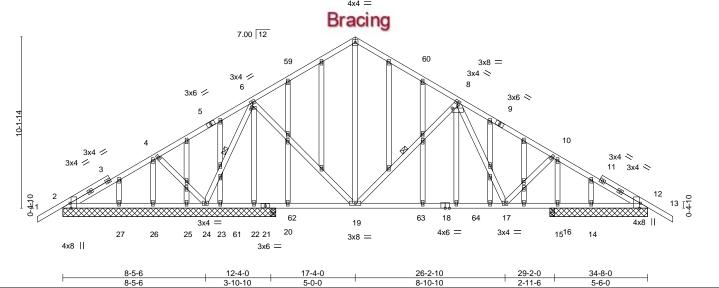


Plate Offsets (X,Y)--[2:0-3-8,Edge], [6:0-1-8,0-0-11], [8:0-4-0,0-1-9], [12:0-3-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.45 Vert(LL) -0.23 17-19 >862 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 BC 0.78 -0.40 17-19 >492 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.03 56 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 290 lb FT = 20%

LUMBER-

WERS

OTHERS

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

2x4 SP No.3 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 4-4-10 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 8-19 6-24

REACTIONS. All bearings 12-7-8 except (jt=length) 12=5-9-8, 15=5-9-8, 14=5-9-8, 20=0-3-8, 16=0-3-8, 12=5-9-8.

Max Horz 2=-235(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 14 except 24=-385(LC 12), 12=-206(LC 13), 15=-544(LC 1),

16=-233(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 25, 26, 27, 15, 20, 2 except 24=1412(LC 19),

12=892(LC 20), 14=295(LC 20), 16=549(LC 1), 12=782(LC 1)

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

10-12=-1522/316

BOT CHORD 2-27=-366/195, 26-27=-366/195, 25-26=-366/195, 24-25=-366/195, 17-19=-50/863,

16-17=-192/1281, 15-16=-192/1281, 14-15=-192/1281, 12-14=-192/1281

7-19=-109/353, 8-19=-632/255, 8-17=-64/519, 10-17=-296/181, 6-19=-38/569,

6-24=-1332/291, 4-24=-266/173

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-4-0, Exterior(2R) 17-4-0 to 20-9-10, Interior(1) 20-9-10 to 36-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 14, 2 except (jt=lb) 24=385, 12=206, 15=544, 16=233, 12=206.

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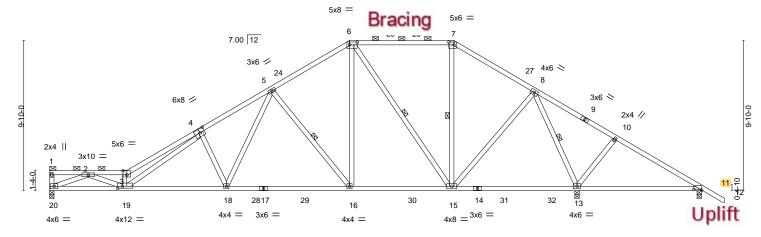
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job Truss Truss Type Qty Ply IC CONST. - KING RES T28611354 3264866 T03 Piggyback Base 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:37 2022 Page 1

ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-U6YJ4Plit3ljhBXM_IqeTgAXQyKGJiVwB6m9?cykwsu 2-6-6 5-0-11 2-6-6 2-6-5 9-10-10 14-6-10 26-5-9 31-8-10 36-11-13 42-8-0 19-7-9 4-10-0 4-7-15 5-0-15 6-10-0 5-3-3 5-8-3

Scale = 1:75.4



1	5-0-11	1 1	1 11-0-14	+ 1	19-7-9		1 20-5	-9	1	34-6-4	1	42-8-0	1	
Г	5-0-11	1 '	6-6-3		8-0-12		6-10	-0	1	8-0-11	1	8-1-12	1	
	(X,Y) [3	:0-3-0,0)-3-4], [4:0-3-12	,0-3-0], [6:0-6	6-0,0-2-4], [7:0-	4-0,0-2-4], [⁻	11:0-6-0,0-0-8]	[19:0-3-12	,0-1-8]					

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.37 18-1	9 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.65 18-1	9 >633	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.06	3 n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	ix-MS					Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 3-4: 2x4 SP M 31

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 4-19: 2x4 SP No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (2-5-1 max.): 1-3, 6-7.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. **WEBS** 1 Row at midpt 5-16, 6-15, 7-15, 8-13

REACTIONS. (size) 20=0-3-8, 13=0-3-8, 11=0-3-8

Max Horz 20=-219(LC 8)

Max Uplift 20=-233(LC 12), 13=-438(LC 12), 11=-681(LC 25) Max Grav 20=1190(LC 2), 13=2926(LC 2), 11=153(LC 12)

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

TOP CHORD $2\text{-}3\text{--}4392/795,\ 3\text{-}4\text{--}5547/1072,\ 4\text{-}5\text{--}2144/432,\ 5\text{-}6\text{--}1044/294,\ 6\text{-}7\text{--}392/208,}$

7-8=-513/199, 8-10=-326/1838, 10-11=-337/1693

BOT CHORD 19-20=-573/2452, 18-19=-431/2232, 16-18=-226/1451, 15-16=-133/911, 13-15=-551/200,

11-13=-1390/326

WEBS 2-20=-2514/505, 2-19=-346/2190, 3-19=-2856/616, 4-19=-689/3396, 4-18=-743/265,

5-18=-218/1114, 5-16=-895/299, 6-16=-189/1013, 6-15=-927/215, 8-15=-186/1359,

8-13=-2566/452, 10-13=-311/185

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-15, Interior(1) 4-4-15 to 19-7-9, Exterior(2R) 19-7-9 to 23-10-12, Interior(1) 23-10-12 to 26-5-9, Exterior(2R) 26-5-9 to 30-8-12, Interior(1) 30-8-12 to 44-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=233, 13=438, 11=681,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job Truss Truss Type Qty Ply IC CONST. - KING RES T28611355 3264866 T03G **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:40 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-vhDRiQKaA_7IYeGwfROL5Jo0IANQW4GMt3?pbwykwsr

25-10-10

31-8-10

5-10-0

36-11-13

34-6-4 0-1-12

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

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

8-5-14

1 Row at midpt

42-8-0

8-1-12

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

6-16, 7-16, 8-14, 4-17

42-<u>8-0</u>

Scale = 1:80.2

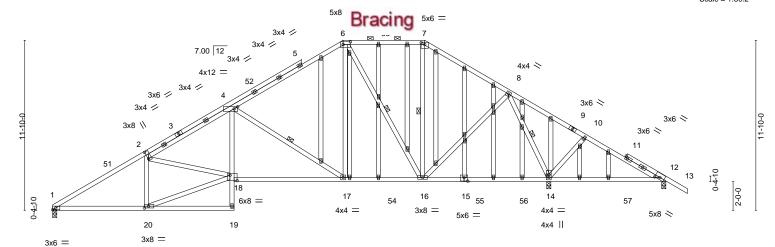


Plate Offsets	s (X,Y)	[2:0-6-4,0-0-4], [4:0-3-0,E	dge], [6:0-6-0,	0-2-4], [7:0-3	-0,0-1-12], [[·]	12:0-4-1,0-1-12], [1	4:0-0-10,0-2-0]	, [15:0-3	-0,0-3-0], [1	8:0-6-0,0-4-8], [20:0-3-8,	0-1-8]
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	0.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	0.11 14-5Ó	>912	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.83	Vert(CT)	-0.40 17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.10 14	n/a	n/a		
BCDL 1	0.0	Code FBC2020/TI	PI2014	Matri	x-MS					Weight: 380 lb	FT = 20%

25-10-10

5-8-2

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

6-6-4

6-6-4

6-6-4

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

4-19: 2x4 SP No.3 WFBS 2x4 SP No.3

OTHERS 2x4 SP No.3

(size) 1=0-3-8, 12=0-3-8, 14=0-3-8

Max Horz 1=-247(LC 10)

Max Uplift 1=-265(LC 12), 12=-177(LC 23), 14=-371(LC 12) Max Grav 1=1342(LC 19), 12=142(LC 24), 14=2271(LC 2)

12-7-8

6-1-4

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

TOP CHORD $1\hbox{-}2\hbox{--}2276/450,\ 2\hbox{-}4\hbox{--}2516/568,\ 4\hbox{-}6\hbox{--}1295/320,\ 6\hbox{-}7\hbox{--}734/239,\ 7\hbox{-}8\hbox{--}917/236,}$

8-10=-175/926, 10-12=-181/779

BOT CHORD 1-20=-516/2106, 4-18=-167/1009, 17-18=-503/2288, 16-17=-140/1141, 12-14=-602/192 **WEBS** $2\text{-}20\text{-}521/215,\ 18\text{-}20\text{-}544/2235,\ 6\text{-}17\text{-}-189/972,\ 6\text{-}16\text{-}-748/221,\ 8\text{-}16\text{-}-142/955,}$

8-14=-1926/403, 10-14=-268/169, 4-17=-1386/439

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-3-3, Interior(1) 4-3-3 to 20-2-8, Exterior(2E) 20-2-8 to 25-10-10, Exterior(2R) 25-10-10 to 31-8-10, Interior(1) 31-8-10 to 44-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=265, 12=177, 14=371,
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

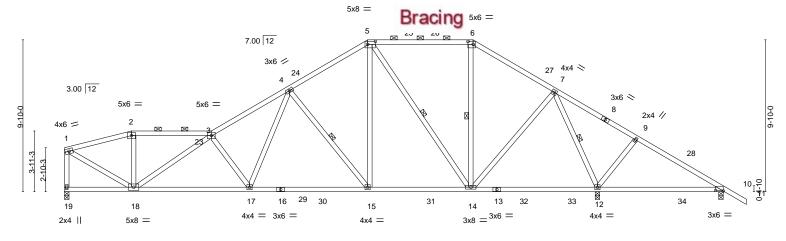


16023 Swingley Ridge Rd Chesterfield, MO 63017



ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-NtnqvmLCxIF8Aor7D8vaeWLEgZihFUWV6jkM8Nykwsq 14-6-13 19-7-9 31-8-10 36-11-13 42-8-0 5-0-12 5-0-12 5-3-3 5-8-3

Scale = 1:74.6



	4-4-0	11-11-13	19-7-9	26-5-9	34-6-4	42-8-0
	4-4-0	7-7-13	7-7-13	6-10-0	8-0-11	8-1-12
Plate Offse	ts (X,Y) [5:0-	-6-0,0-2-4], [6:0-4-0,0-2-4], [10:	0-6-0,0-0-8]			

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.64	DEFL. in (loc) I/defl L/d Vert(LL) 0.24 12-22 >408 240	PLATES GRIP MT20 244/190
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.89 WB 0.95	Vert(CT) 0.21 12-22 >460 180 Horz(CT) 0.06 12 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	11012(01) 0.00 12 11/4 11/4	Weight: 261 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-13 max.): 2-3, 5-6.

BOT CHORD WEBS

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 4-15, 5-14, 6-14, 7-12

REACTIONS. (size) 19=0-3-8, 12=0-3-8, 10=0-3-8

Max Horz 19=-216(LC 13)

Max Uplift 19=-261(LC 12), 12=-305(LC 12), 10=-175(LC 23) Max Grav 19=1312(LC 2), 12=2283(LC 2), 10=163(LC 24)

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

TOP CHORD 1-2=-1457/403, 2-3=-1398/404, 3-4=-2356/663, 4-5=-1334/474, 5-6=-707/353,

6-7=-876/354, 7-9=-123/801, 9-10=-134/666, 1-19=-1255/364 17-18=-531/2421, 15-17=-283/1643, 14-15=-147/1133, 10-12=-543/152

3-18=-1263/355, 3-17=-757/303, 4-17=-214/1005, 4-15=-869/314, 5-15=-217/986, **WEBS**

5-14=-744/190, 7-14=-115/937, 7-12=-1884/416, 9-12=-299/232, 1-18=-420/1597

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-0, Exterior(2R) 4-4-0 to 8-7-3, Interior(1) 8-7-3 to 19-7-9, Exterior(2R) 19-7-9 to 23-10-12, Interior(1) 23-10-12 to 26-5-9, Exterior(2R) 26-5-9 to 30-8-12, Interior(1) 30-8-12 to 44-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=261, 12=305, 10=175.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:





26-5-9

6-10-0

31-8-10

8-0-11

2-0-0 oc purlins (4-2-15 max.): 2-3, 5-6.

1 Row at midpt

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

5-3-1

36-11-13

5-3-3

19-7-9

5-7-9

5-7-9

Scale = 1:74.6

42-8-0

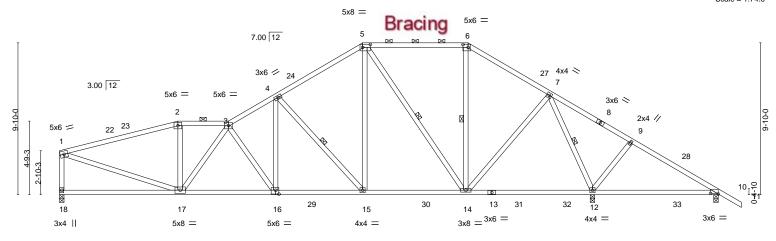
5-8-3

42-8-0

8-1-12

Structural wood sheathing directly applied, except end verticals, and

4-15, 5-14, 6-14, 7-12



		100	0 + 0	0 1	0	0 10 0		001	1	0 1 12	
Plate Offs	sets (X,Y)	[5:0-6-0,0-2-4], [6:0-4-0,0)-2-4], [10:0-6-0),0-0-8], [16:0-2	2-8,0-3-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC (0.97	Vert(LL)	0.24 12-21	>408	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC (0.75	Vert(CT)	0.21 12-21	>461	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB (0.68	Horz(CT)	0.05 12	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-	MS					Weight: 266 lb	FT = 20%

6-10-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No 3 WFBS

> 18=0-3-8, 12=0-3-8, 10=0-3-8 (size)

Max Horz 18=-216(LC 13)

Max Uplift 18=-262(LC 12), 12=-297(LC 13), 10=-151(LC 23) Max Grav 18=1312(LC 2), 12=2241(LC 2), 10=177(LC 24)

6-4-0

<u>10-11-4</u>

3-3-4

3-0-12

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

TOP CHORD 1-2=-1875/511 2-3=-1785/523 3-4=-2002/589 4-5=-1341/471 5-6=-723/355

6-7=-894/359, 7-9=-110/744, 9-10=-121/610, 1-18=-1186/367

 $16\text{-}17\text{=-}438/2123,\ 15\text{-}16\text{=-}315/1727,\ 14\text{-}15\text{=-}152/1134,\ 10\text{-}12\text{=-}495/140}$ BOT CHORD **WEBS** $3-17=-593/177,\ 3-16=-701/219,\ 4-15=-919/320,\ 5-15=-213/934,\ 5-14=-718/197,$ 7-14=-114/912, 7-12=-1842/399, 9-12=-299/232, 1-17=-450/1791, 4-16=-144/795

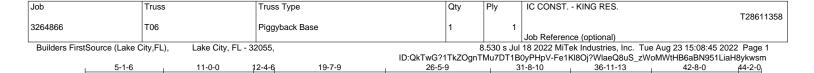
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-15, Interior(1) 4-4-15 to 7-8-0, Exterior(2E) 7-8-0 to 10-11-4, Interior(1) 10-11-4 to 19-7-9. Exterior(2R) 19-7-9 to 23-10-12, Interior(1) 23-10-12 to 26-5-9. Exterior(2R) 26-5-9 to 30-8-12, Interior(1) 30-8-12 to 44-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=262, 12=297, 10=151.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:





6-10-0

Scale = 1:75.2

5-3-3

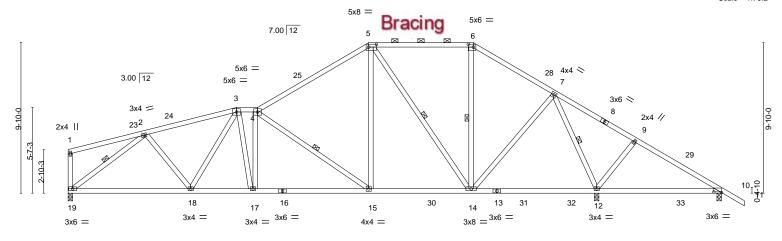


Plate Off	fsets (X,Y)	[5:0-6-0,0-2-4], [6:0-4-0,0)-2-4], [10:0-6-	0,0-0-8]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	0.24 12-22	>409	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.77	Vert(CT)	0.21 12-22	>460	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.07 12	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	ix-MS					Weight: 264 lb	FT = 20%

26-5-9

6-10-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

34-6-4

8-0-11

1 Row at midpt

Structural wood sheathing directly applied or 2-2-0 oc purlins,

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

except end verticals, and 2-0-0 oc purlins (4-0-13 max.): 3-4, 5-6.

4-15, 5-14, 6-14, 7-12, 2-19

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No 3 WFBS

(size) 12=0-3-8, 19=0-3-8, 10=0-3-8

Max Horz 19=-216(LC 13)

8-0-1

Max Uplift 12=-290(LC 12), 19=-264(LC 12), 10=-113(LC 23) Max Grav 12=2163(LC 2), 19=1305(LC 2), 10=201(LC 24)

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

2-3=-1813/527, 3-4=-1909/600, 4-5=-1368/466, 5-6=-742/362, 6-7=-917/370, TOP CHORD

12-4-6

4-4-5

7-9=-99/644 9-10=-110/513

BOT CHORD 18-19=-339/1422, 17-18=-368/1814, 15-17=-405/1924, 14-15=-155/1140, 10-12=-411/131

1-4-6

7-3-3

19-7-9

5-10-11

2-18=-40/501, 3-17=-147/538, 4-17=-342/180, 4-15=-996/363, 5-15=-180/878, **WEBS** 5-14=-704/203, 7-14=-117/859, 7-12=-1757/391, 9-12=-297/232, 2-19=-1740/523

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-15, Interior(1) 4-4-15 to 11-0-0, Exterior(2E) 11-0-0 to 12-4-6. Interior(1) 12-4-6 to 19-7-9. Exterior(2R) 19-7-9 to 23-10-12. Interior(1) 23-10-12 to 26-5-9. Exterior(2R) 26-5-9 to 30-8-12, Interior(1) 30-8-12 to 44-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=290, 19=264, 10=113.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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42-8-0

8-1-12

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply IC CONST. - KING RES. T28611359 3264866 T07 4 Piggyback Base Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:46 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-jqbjzUPLmqtRGZj40hVlLa25OaScwotFF?S7paykwsl

19-7-9

6-2-14

26-5-9

6-10-0

31-8-10

5-3-1

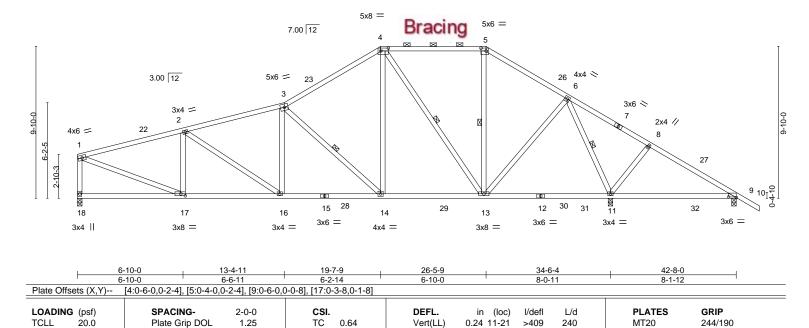
36-11-13

5-3-3

Scale = 1:74.6

42-8-0

5-8-3



LUMBER-

TCDL

BCLL

BCDL

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

6-10-0

2x4 SP No 3 WFBS

7.0

0.0

10.0

BRACING-

Vert(CT)

Horz(CT)

0.21 11-21

11

0.05

>461

n/a

TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins,

180

n/a

BOT CHORD WEBS

except end verticals, and 2-0-0 oc purlins (5-7-6 max.): 4-5. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 3-14, 4-13, 5-13, 6-11

Weight: 259 lb

FT = 20%

REACTIONS. 18=0-3-8, 11=0-3-8, 9=0-3-8 (size)

Max Horz 18=-216(LC 13)

Max Uplift 18=-264(LC 12), 11=-294(LC 13), 9=-113(LC 23) Max Grav 18=1323(LC 2), 11=2185(LC 2), 9=201(LC 24)

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

1-2=-1822/473, 2-3=-1927/539, 3-4=-1371/463, 4-5=-751/360, 5-6=-927/363, TOP CHORD

1.25

YES

BC

WB

Matrix-MS

0.65

0.69

13-4-11

6-6-11

6-8=-96/657, 8-9=-107/525, 1-18=-1215/349

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

BOT CHORD 16-17=-362/1737, 14-16=-317/1827, 13-14=-160/1155, 9-11=-422/129 **WEBS**

2-17=-453/203, 3-14=-954/301, 4-14=-180/917, 4-13=-710/188, 6-13=-117/875,

6-11=-1782/382, 8-11=-298/232, 1-17=-440/1804

NOTES-

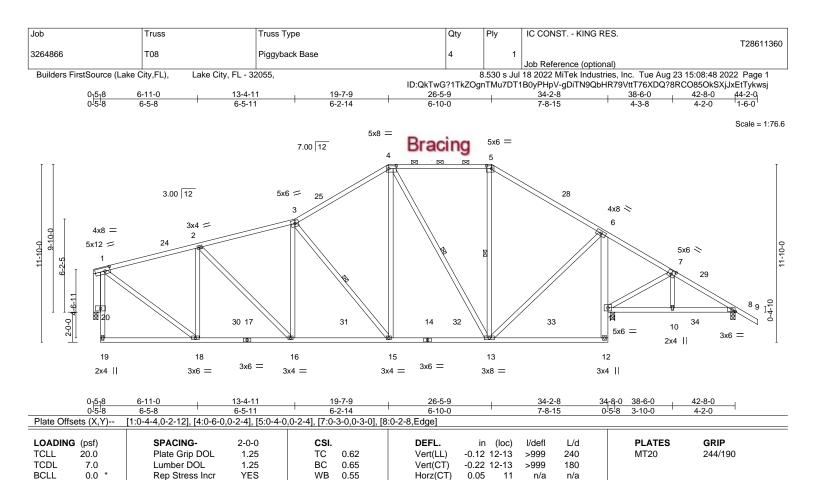
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-15, Interior(1) 4-4-15 to 19-7-9, Exterior(2R) 19-7-9 to 23-10-12, Interior(1) 23-10-12 to 26-5-9, Exterior(2R) 26-5-9 to 30-8-12, Interior(1) 30-8-12 to 44-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:





TOP CHORD

BOT CHORD

WEBS

except

2-0-0 oc purlins (5-10-6 max.): 4-5.

6-0-0 oc bracing: 12-13.

1 Row at midpt

10.0 LUMBER-TOP CHORD

BCDL

2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 1-19: 2x4 SP No.3, 6-12: 2x6 SP No.2

WEBS 2x4 SP No.3 *Except*

4-13: 2x4 SP No.2

OTHERS 2x6 SP No.2

REACTIONS. (size) 11=0-3-8, 8=0-3-8, 20=0-3-8

Max Horz 20=-218(LC 13)

Max Uplift 11=-234(LC 13), 8=-131(LC 13), 20=-272(LC 12) Max Grav 11=1851(LC 2), 8=367(LC 26), 20=1386(LC 2)

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

Code FBC2020/TPI2014

1-2=-1259/358, 2-3=-1510/454, 3-4=-1228/446, 4-5=-720/376, 5-6=-925/377, TOP CHORD

7-8=-331/371

BOT CHORD $1-20 = -1290/354, \ 16-18 = -243/1193, \ 15-16 = -246/1427, \ 13-15 = -138/1017, \ 6-11 = -1445/424, \ 13-15 = -138/1017, \ 6-11 = -1445/1017, \ 6-11 = -1445/$

10-11=-220/254, 8-10=-221/255

1-18=-324/1453, 2-18=-617/231, 2-16=-59/367, 3-15=-675/242, 4-15=-150/800, **WEBS**

4-13=-612/151, 6-13=-131/1013, 7-11=-347/383

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-4 to 4-10-7, Interior(1) 4-10-7 to 19-7-9, Exterior(2R) 19-7-9 to 23-10-12, Interior(1) 23-10-12 to 26-5-9, Exterior(2R) 26-5-9 to 30-8-12, Interior(1) 30-8-12 to 44-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=234, 8=131, 20=272,
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



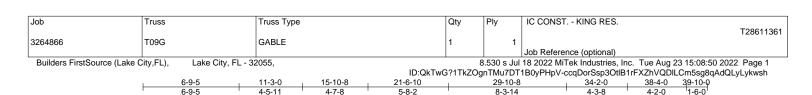
Weight: 301 lb

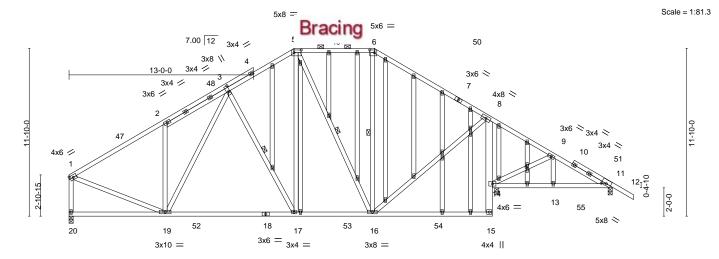
Structural wood sheathing directly applied or 4-4-14 oc purlins,

3-15, 4-13, 5-13

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

FT = 20%





	6-9-5	15-10-8	21-6-10	29-10-8	3010-8 34-2-0	38-4-0
	6-9-5	9-1-3	5-8-2	8-3-14	0-2-0 4-1-8	4-2-0
Plate Offsets (X,Y)	[3:0-5-0,0-1-4], [5:0-6-0,0-2-	4], [6:0-4-0,0-2-4], [11:0-4-1,0-1-	12], [23:0-1-14,0-1-0	0]		

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.70	DEFL. in (loc) I/defl L/d Vert(LL) -0.31 17-19 >999 240	PLATES GRIP MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.94	Vert(CT) -0.31 17-19 >999 240 Vert(CT) -0.49 17-19 >728 180	W1120 244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.41	1 11 11 11 11	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.01 11 n/a n/a	Weight: 390 lb FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except*

8-15: 2x6 SP No.2

WEBS 2x4 SP No.3 *Except*

5-16: 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. (size) 20=0-3-8, 11=0-3-8, 14=0-3-8

Max Horz 20=-219(LC 8)

Max Uplift 20=-235(LC 12), 11=-123(LC 13), 14=-257(LC 13) Max Grav 20=1250(LC 19), 11=381(LC 26), 14=1659(LC 2)

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

1-2=-1283/256, 2-3=-1288/385, 3-5=-981/297, 5-6=-651/264, 6-8=-854/240, TOP CHORD

9-11=-353/231, 1-20=-1172/248

BOT CHORD $17-19 = -198/1067, \ 16-17 = -119/885, \ 8-14 = -1246/242, \ 13-14 = -134/299, \ 11-13 = -134/299$ **WEBS** 2-19=-308/226, 3-17=-407/221, 5-17=-152/696, 5-16=-475/137, 8-16=-99/842,

9-14=-360/226, 1-19=-139/1087, 3-19=-132/293

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-11-12, Interior(1) 3-11-12 to 15-10-8, Exterior(2E) 15-10-8 to 21-6-10, Exterior(2R) 21-6-10 to 26-11-11, Interior(1) 26-11-11 to 39-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=235, 11=123, 14=257
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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August 24,2022



Structural wood sheathing directly applied or 4-8-1 oc purlins,

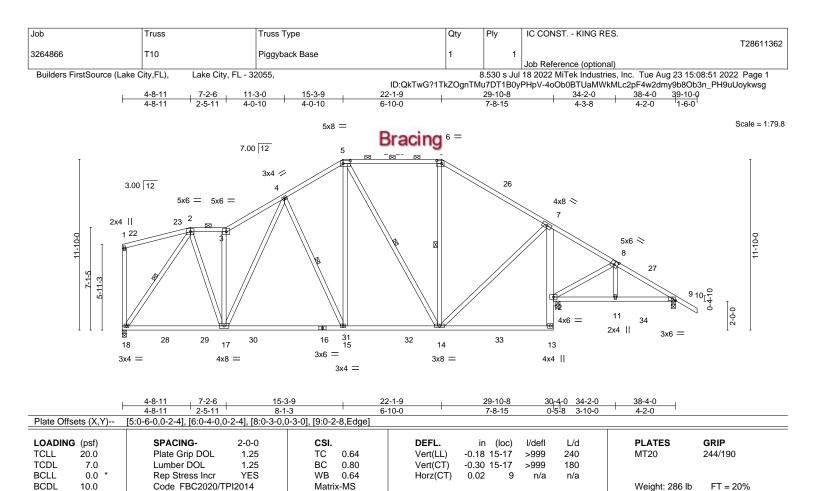
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

3-17, 5-16, 6-16

2-2-0 oc bracing: 17-19 6-0-0 oc bracing: 15-16.

1 Row at midpt



TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

2x4 SP No.2

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

7-13: 2x6 SP No.2 **WEBS** 2x4 SP No.3 *Except*

5-14: 2x4 SP No.2

(size) 12=0-3-8, 9=0-3-8, 18=0-3-8

Max Horz 18=-237(LC 13)

Max Uplift 12=-199(LC 13), 9=-133(LC 13), 18=-230(LC 12) Max Grav 12=1675(LC 2), 9=380(LC 26), 18=1261(LC 2)

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

TOP CHORD 2-3=-1022/293, 3-4=-1227/391, 4-5=-1002/400, 5-6=-627/346, 6-7=-818/342,

8-9=-356/378

BOT CHORD 17-18=-167/783, 15-17=-158/980, 14-15=-127/873, 7-12=-1267/361, 11-12=-229/275,

9-11=-231/276

WEBS 2-17=-184/933, 3-17=-713/254, 4-15=-340/195, 5-15=-134/647, 5-14=-448/113,

7-14=-108/864, 8-12=-347/383, 2-18=-1268/336

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-11-12, Interior(1) 3-11-12 to 4-8-11, Exterior(2E) 4-8-11 to 7-2-6, Interior(1) 7-2-6 to 15-3-9, Exterior(2R) 15-3-9 to 19-1-9, Interior(1) 19-1-9 to 22-1-9, Exterior(2R) 22-1-9 to 25-11-9, Interior(1) 25-11-9 to 39-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=199 9=133 18=230
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Structural wood sheathing directly applied or 5-2-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 13-14.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (5-9-9 max.): 2-3, 5-6.

4-15, 5-14, 6-14, 2-18

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

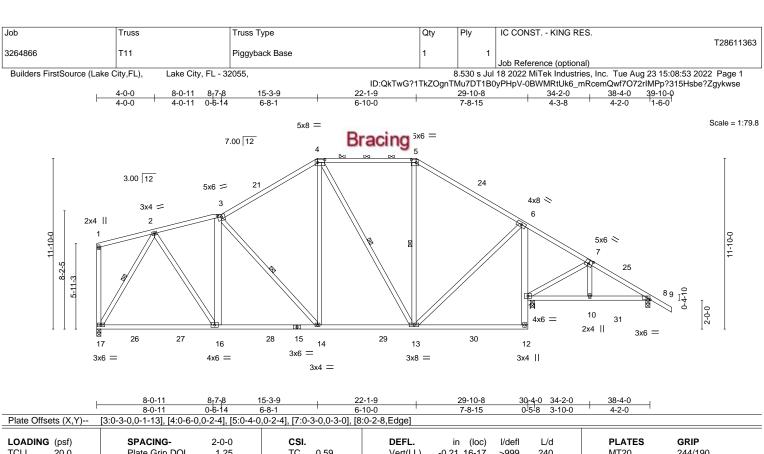
August 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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





LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.21	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.80	Vert(CT)	-0.34	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matr	ix-MS						Weight: 280 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except*

6-12: 2x6 SP No.2 **WEBS** 2x4 SP No.3 *Except*

3-16: 2x6 SP No.2, 4-13: 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 8=0-3-8, 17=0-3-8

Max Horz 17=-237(LC 13)

Max Uplift 11=-199(LC 13), 8=-133(LC 13), 17=-230(LC 12) Max Grav 11=1665(LC 2), 8=381(LC 26), 17=1260(LC 2)

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

TOP CHORD 2-3=-1071/305, 3-4=-1010/368, 4-5=-625/342, 5-6=-816/337, 7-8=-359/379

BOT CHORD 16-17=-177/692, 14-16=-174/1049, 13-14=-133/859, 6-11=-1261/359, 10-11=-230/278,

8-10=-232/279

WEBS 2-16=-143/725, 3-16=-300/172, 3-14=-326/152, 4-14=-78/507, 4-13=-422/120,

6-13=-109/859, 7-11=-347/383, 2-17=-1194/334

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-0-0, Interior(1) 4-0-0 to 15-3-9, Exterior(2R) 15-3-9 to 19-1-9, Interior(1) 19-1-9 to 22-1-9, Exterior(2R) 22-1-9 to 25-11-9, Interior(1) 25-11-9 to 39-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=199, 8=133, 17=230,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022

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



Structural wood sheathing directly applied or 4-9-8 oc purlins,

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

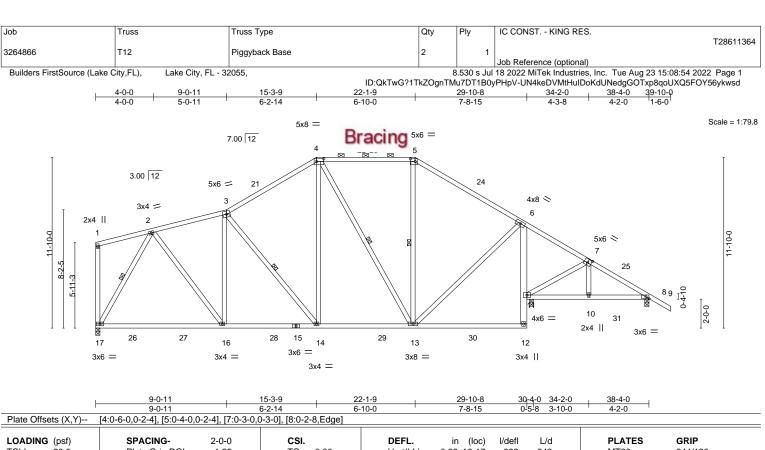
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

3-14, 4-13, 5-13, 2-17

6-0-0 oc bracing: 12-13.

1 Row at midpt

16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.28 1	6-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.45 1	6-17	>788	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 274 lb	FT = 20%

LUMBER-

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

6-12: 2x6 SP No.2

WEBS 2x4 SP No.3 *Except*

4-13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-9 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 12-13.

WEBS 1 Row at midpt 3-14, 4-13, 5-13, 2-17

REACTIONS. (size) 11=0-3-8, 8=0-3-8, 17=0-3-8

Max Horz 17=-237(LC 13)

Max Uplift 11=-199(LC 13), 8=-133(LC 13), 17=-230(LC 12) Max Grav 11=1667(LC 2), 8=381(LC 26), 17=1261(LC 2)

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

TOP CHORD 2-3=-1091/312, 3-4=-1007/371, 4-5=-626/342, 5-6=-816/337, 7-8=-358/379

16-17=-179/679, 14-16=-173/1056, 13-14=-133/857, 6-11=-1263/359, 10-11=-230/277, **BOT CHORD**

8-10=-231/278

2-16=-134/704, 3-16=-261/160, 3-14=-358/156, 4-14=-88/519, 4-13=-416/121,

6-13=-110/861, 7-11=-347/383, 2-17=-1181/340

NOTES-

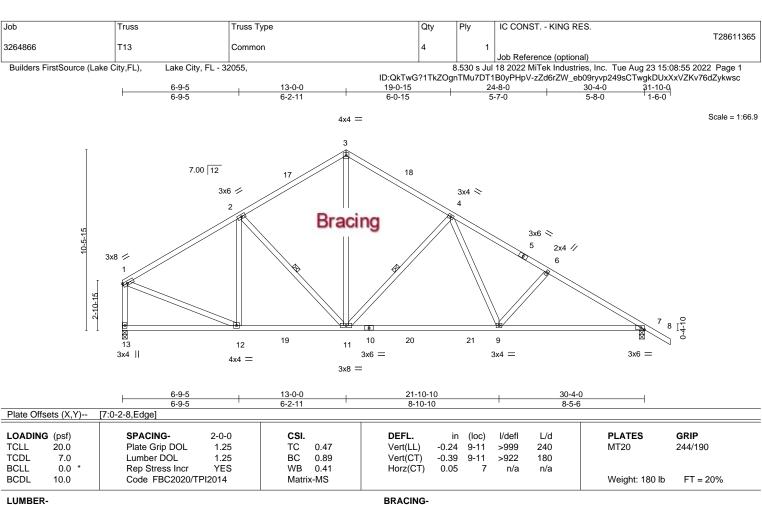
WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-10-14, Interior(1) 3-10-14 to 15-3-9, Exterior(2R) 15-3-9 to 19-1-9, Interior(1) 19-1-9 to 22-1-9, Exterior(2R) 22-1-9 to 25-11-9, Interior(1) 25-11-9 to 39-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=199, 8=133, 17=230,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

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

2x4 SP No 3 WFBS

REACTIONS. (size) 13=0-3-8, 7=0-3-8 Max Horz 13=-229(LC 8)

Max Uplift 13=-206(LC 12), 7=-266(LC 13)

Max Grav 13=1272(LC 19), 7=1379(LC 20)

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

TOP CHORD 1-2=-1281/240, 2-3=-1200/296, 3-4=-1176/291, 4-6=-1944/374, 6-7=-2100/383,

1-13=-1164/223

BOT CHORD 11-12=-172/1188 9-11=-121/1372 7-9=-238/1764

3-11=-172/868, 4-11=-699/270, 4-9=-90/626, 6-9=-285/178, 1-12=-152/1097 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-2-2, Interior(1) 3-2-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-6, Interior(1) 16-0-6 to 31-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=206, 7=266.

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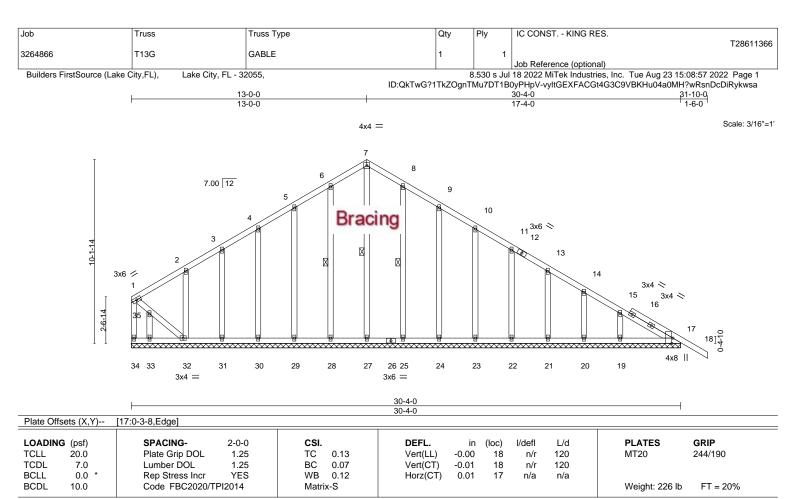
Structural wood sheathing directly applied or 3-9-15 oc purlins,

2-11, 4-11

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

except end verticals.

1 Row at midpt



LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WERS **OTHERS** 2x4 SP No.3 **BRACING-**

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 7-27, 6-28, 8-25

All bearings 30-4-0. REACTIONS.

(lb) -Max Horz 34=-223(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 28, 29, 30, 31, 25, 24, 23, 22, 21, 20, 19, 17 except 34=-117(LC

8), 32=-193(LC 12)

All reactions 250 lb or less at joint(s) 34, 27, 28, 29, 30, 31, 33, 25, 24, 23, 22, 21, 20, 19, 17 Max Grav

except 32=268(LC 19)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-0-0, Exterior(2N) 3-0-0 to 13-0-0, Corner(3R) 13-0-0 to 16-0-6, Exterior(2N) 16-0-6 to 31-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 29, 30, 31, 25, 24, 23, 22, 21, 20, 19, 17 except (jt=lb) 34=117, 32=193.

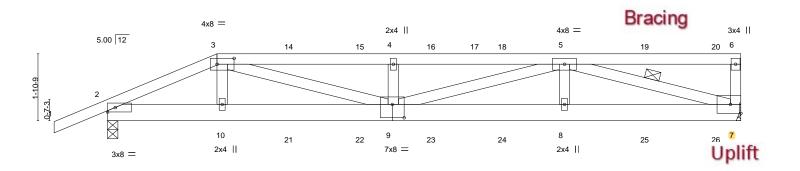
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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job Truss Truss Type Qty Ply IC CONST. - KING RES T28611367 3264866 T14 Half Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:59 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-rKtdhwZViqWbKZDaHwEoNJ5DlqtMThn9FX5JmKykwsY -1-6-0

Scale = 1:32.4



	3-0-14	+	8-0-6	12-10		+	17-9-8	
	3-0-14	·	4-11-7	4-9-1	1	<u>'</u>	4-11-7	<u> </u>
Plate Offsets (X,	') [3:0-5-12,0-2-0], [9:0-4	1-0,0-4-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. ir	n (loc) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.98	Vert(LL) 0.23	8-9 >910	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT) -0.33	8-9 >645	180		
BCLL 0.0	* Rep Stress Inc	r NO	WB 0.64	Horz(CT) 0.05	5 7 n/a	n/a		
BCDL 10.0	Code FBC202	0/TPI2014	Matrix-MS	, ,			Weight: 98 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WERS

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No 2

2x4 SP No 3 WFBS

REACTIONS. (size) 7=Mechanical, 2=0-3-8

Max Horz 2=63(LC 23)

3-0-14

1-6-0

Max Uplift 7=-666(LC 5), 2=-566(LC 4) Max Grav 7=1299(LC 1), 2=1165(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2194/1093, 3-4=-3584/1833, 4-5=-3594/1838, 6-7=-250/129 BOT CHORD 2-10=-1015/1992, 9-10=-1021/2004, 8-9=-1530/2987, 7-8=-1530/2987 WFBS 3-10=-68/259, 3-9=-853/1653, 4-9=-489/252, 5-9=-323/635, 5-8=-113/363,

5-7=-2980/1527

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=666, 2=566.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 78 lb up at 5-1-10, 85 lb down and 78 lb up at 7-1-10, 85 lb down and 78 lb up at 9-1-10, 85 lb down and 76 lb up at 11-1-10, 85 lb down and 78 lb up at 13-1-10, and 85 lb down and 78 lb up at 15-1-10, and 99 lb down and 77 lb up at 17-1-10 on top chord, and 107 lb down and 77 lb up at 3-0-14, 66 lb down and 57 lb up at 5-1-10, 66 lb down and 57 lb up at 7-1-10, 66 lb down and 57 lb up at 9-1-10, 66 lb down and 57 lb up at 11-1-10, 66 lb down and 57 lb up at 13-1-10, and 66 lb down and 57 lb up at 15-1-10, and 76 lb down and 53 lb up at 17-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-3=-54, 3-6=-54, 7-11=-20

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Structural wood sheathing directly applied, except end verticals.

5-7

Rigid ceiling directly applied or 5-10-9 oc bracing.

1 Row at midpt

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST KING RES.
					T28611367
3264866	T14	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

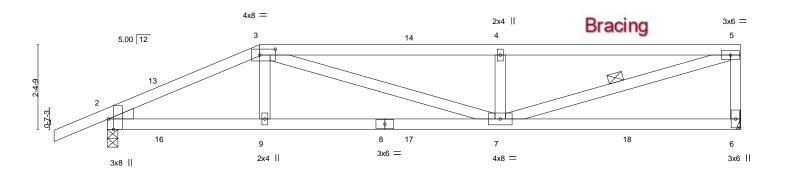
8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:08:59 2022 Page 2 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-rKtdhwZViqWbKZDaHwEoNJ5DlqtMThn9FX5JmKykwsY

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 10=-77(F) 8=-55(F) 5=-85(F) 14=-85(F) 15=-85(F) 16=-85(F) 18=-85(F) 19=-85(F) 20=-99(F) 21=-55(F) 22=-55(F) 23=-55(F) 24=-55(F) 25=-55(F) 26=-60(F)

JOD	Truss	Truss Type	Qty	Ply	IC CONST KING RES.	
					T28	611368
3264866	T15	Half Hip	1	1		
					Job Reference (optional)	
Builders FirstSource (Lake C	City,FL), Lake City, FL - 32	2055,		8.530 s Jul	18 2022 MiTek Industries, Inc. Tue Aug 23 15:09:00 2022 Pag	je 1
		ID:QkTw	3?1TkZOgn	TMu7DT1E	B0yPHpV-JXR?vGa7T7eSxjomqel1vXdWCEHUCAYITBrtJmykv	vsX
-1-6-0	4-3-5	11-0-6		1	17-9-8	
1-6-0	4-3-5	6-9-2		1	6-9-2	

Scale = 1:32.4



	4-3-5	11-0-6	17-9-8	
	4-3-5	6-9-2	6-9-2	
Plate Offsets (X,Y)	[2:0-3-8,Edge], [3:0-5-4,0-2-0]			
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL. in (lo	oc) I/defl L/d PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49 Vert(LL) 0.17	7-9 >999 240 MT20 244/190	
TCDL 7.0	Lumber DOL 1.25	BC 0.49 Vert(CT) -0.17	7-9 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55 Horz(CT) 0.02	6 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Weight: 85 lb FT = 20%	

LUMBER-

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

2x4 SP No.3 WFBS

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-5-1 oc bracing.

WEBS 1 Row at midpt

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

Max Horz 2=80(LC 12)

Max Uplift 6=-317(LC 8), 2=-326(LC 8) Max Grav 6=649(LC 1), 2=737(LC 1)

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

2-3=-1163/1104, 3-4=-1428/1317, 4-5=-1428/1317, 5-6=-586/468 TOP CHORD

BOT CHORD 2-9=-1025/1032, 7-9=-1042/1037

WEBS 3-7=-288/409, 4-7=-410/198, 5-7=-1326/1432

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-3-5, Exterior(2R) 4-3-5 to 8-6-3, Interior(1) 8-6-3 to 17-7-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=317, 2=326.

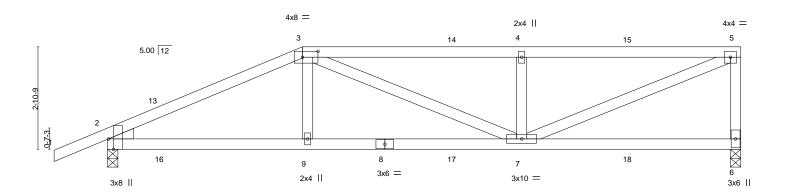
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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



IC CONST. - KING RES. Job Truss Truss Type Qty Ply T28611369 3264866 T16 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:09:01 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-nj?N6calDRmJZtNzOLGGŠkAiOdelxYrSiraQrCykwsW -1-6-0

Scale = 1:32.4



	H	5-5-11		-		6-1-14			1		6-1-14	
Plate Offs	sets (X,Y)	[2:0-3-8,Edge], [3:0-5-4,0-	2-0]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.11	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.11	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matrix	c-MS						Weight: 86 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

11-7-10

LUMBER-

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

2x4 SP No.3 WFBS

1-6-0

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 6=0-3-8, 2=0-3-8

Max Horz 2=97(LC 12)

Max Uplift 6=-316(LC 8), 2=-316(LC 8) Max Grav 6=649(LC 1), 2=737(LC 1)

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

2-3=-1110/1025, 3-4=-1092/1021, 4-5=-1092/1021, 5-6=-593/488 TOP CHORD

5-5-11

BOT CHORD 2-9=-963/973, 7-9=-978/978

WEBS 3-9=-263/213, 4-7=-374/181, 5-7=-1078/1148

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-5-11, Exterior(2R) 5-5-11 to 9-8-10, Interior(1) 9-8-10 to 17-7-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=316, 2=316.

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17-0-8

Structural wood sheathing directly applied or 5-1-11 oc purlins,

Rigid ceiling directly applied or 5-8-14 oc bracing.

except end verticals.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

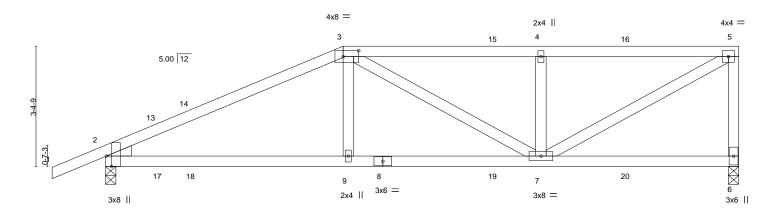
IC CONST. - KING RES. Job Truss Truss Type Qty Ply T28611370 3264866 T17 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:09:02 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-FvZmKybN_luAB1y9y2nV_xjua1?Yg1NbxUK_NfykwsV

12-2-13

5-6-11

Scale = 1:32.4

5-6-11



	6-8-2	1	12-2-13	17-9-8	
	6-8-2	l	5-6-11	5-6-11	
Plate Offsets (X,Y)	[2:0-3-8,Edge], [3:0-5-4,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	efl L/d PLATES GRI	P
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL) 0.11 9-12 >99	9 240 MT20 244,	/190
TCDL 7.0	Lumber DOL 1.25	BC 0.38	Vert(CT) -0.09 9-12 >99	9 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.02 6 n	/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 87 lb F	FT = 20%

LUMBER-

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

2x4 SP No.3 WFBS

-1-6-0

1-6-0

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-9-1 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8

Max Horz 2=115(LC 12)

Max Uplift 6=-314(LC 8), 2=-306(LC 8) Max Grav 6=649(LC 1), 2=737(LC 1)

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

6-8-2

TOP CHORD 2-3=-1053/954, 3-4=-852/807, 4-5=-852/807, 5-6=-597/508

BOT CHORD 2-9=-919/911, 7-9=-933/917

WEBS 3-9=-301/240, 4-7=-330/161, 5-7=-906/952

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-8-2, Exterior(2R) 6-8-2 to 10-11-0, Interior(1) 10-11-0 to 17-7-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=314, 2=306.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

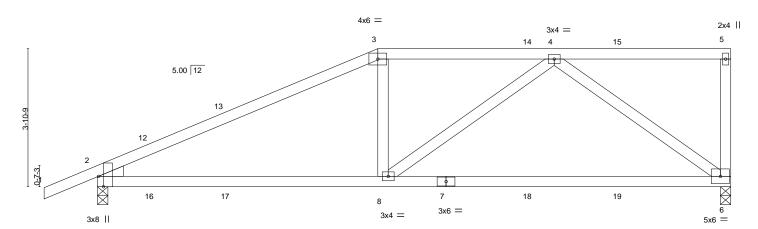
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



IC CONST. - KING RES. Job Truss Truss Type Qty Ply T28611371 3264866 T18 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:09:03 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-k668Xlc?l201oBXLWmlkX9F?IRE1PWVl983Xv5ykwsU

Scale = 1:32.4



7-10-8 7-10-8 9-11-0 Plate Offsets (X,Y)--[2:0-3-8,Edge]

LOADIN	\(\(\)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL	20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL) 0.41 6-8 >514 240	MT20 244/190			
TCDL	7.0	Lumber DOL 1.25	BC 0.82	Vert(CT) -0.44 6-8 >476 180				
BCLL	0.0 *	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.02 6 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 84 lb FT = 20%			

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.3

-1-6-0

1-6-0

WEDGE

REACTIONS.

Left: 2x4 SP No.3

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

Max Horz 2=132(LC 12)

Max Uplift 2=-297(LC 8), 6=-311(LC 8) Max Grav 2=737(LC 1), 6=649(LC 1)

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

TOP CHORD 2-3=-1014/935, 3-4=-865/915 **BOT CHORD** 2-8=-907/863, 6-8=-545/635 WEBS 4-8=-462/340, 4-6=-756/619

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-10-8, Exterior(2R) 7-10-8 to 12-1-7, Interior(1) 12-1-7 to 17-7-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7-10-8

7-10-8

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=297, 6=311.

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Structural wood sheathing directly applied or 4-4-14 oc purlins,

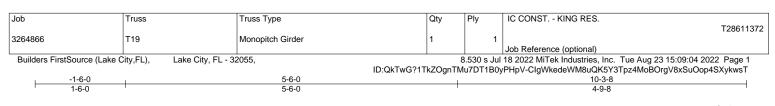
Rigid ceiling directly applied or 5-4-5 oc bracing.

except end verticals.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

August 24,2022

16023 Swingley Ridge Rd Chesterfield, MO 63017



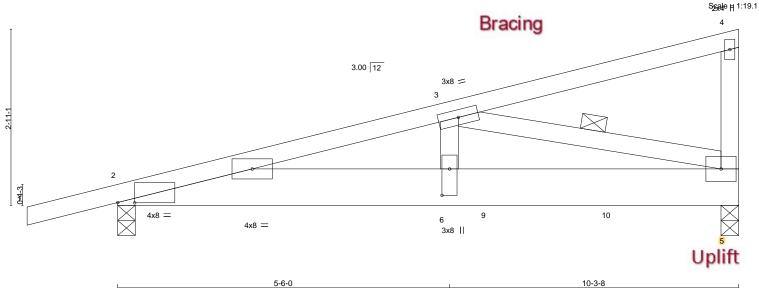


Plate Offsets (X,Y)	[2:0-3-6,0-0-1], [6:0-5-4,0-1-8]			
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.54	DEFL. in (loc) I/defl L/d Vert(LL) 0.10 5-6 >999 240	PLATES GRIP MT20 244/190
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr NO	BC 0.42 WB 0.68	Vert(CT) -0.15 5-6 >816 180 Horz(CT) 0.02 5 n/a n/a	111120
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	, ,	Weight: 61 lb FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x8 SP 2400F 2.0E

2x4 SP No.3 WFBS

REACTIONS. (size) 5=0-3-8, 2=0-3-8

Max Horz 2=106(LC 4)

Max Uplift 5=-832(LC 4), 2=-559(LC 4) Max Grav 5=1643(LC 1), 2=1096(LC 1)

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

TOP CHORD 2-3=-3318/1627

2-6=-1628/3195, 5-6=-1628/3195 **BOT CHORD** WFBS 3-6=-736/1442. 3-5=-3224/1643

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=832, 2=559.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1281 lb down and 688 lb up at 6-2-4, and 629 lb down and 338 lb up at 8-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 2-5=-20 Concentrated Loads (lb)

Vert: 9=-1281(B) 10=-629(B)

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4-9-8

Structural wood sheathing directly applied or 3-1-10 oc purlins,

Rigid ceiling directly applied or 8-10-6 oc bracing.

except end verticals.

1 Row at midpt

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August 24,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

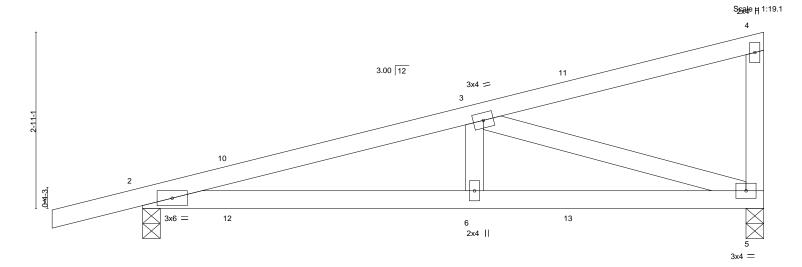
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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





ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-ClgWkedeWM8uQK5Y3Tpz4MoEiri480VuOop4SXykwsT 5-6-0 5-6-0



		5-6-0				4-9-8				1		
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC	0.33	Vert(LL)	0.07	6-9	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.06	6-9	>999	180		
BCLL 0.0	*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0		Code FBC2020/TF	PI2014	Matri	x-MS						Weight: 45 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-3-8, 5=0-3-8 Max Horz 2=104(LC 8)

Max Uplift 2=-234(LC 8), 5=-192(LC 8)

Max Grav 2=462(LC 1), 5=369(LC 1)

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

TOP CHORD 2-3=-798/925 **BOT CHORD**

2-6=-980/757, 5-6=-980/757 **WEBS** 3-6=-300/220, 3-5=-771/998

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-1-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5-6-0

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=234, 5=192.

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August 24,2022



10-3-8

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

Rigid ceiling directly applied or 5-8-4 oc bracing.

except end verticals

Job Truss Truss Type Qty Ply IC CONST. - KING RES T28611374 3264866 V01 **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Jul 18 2022 MiTek Industries, Inc. Tue Aug 23 15:09:06 2022 Page 1 ID:QkTwG?1TkZOgnTMu7DT1B0yPHpV-8hoG9Jeu2zPbgeFwBusR9ntfYeQuc_IBs6IBWQykwsR 12-0-0 2<u>4-0-0</u> 12-0-0 12-0-0 Scale = 1:52.9 4x4 = 3x6 / 3x6 × 10 6 300 9.00 12 12 9-8-0 3-0-0 14 3x6 // 22 20 26 25 24 18 17 16 3x6 = 3x6 × 24-0-0 24-0-0 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI I/d **PLATES TCLL** 20.0 Plate Grip DOL 1.25 TC 0.05 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.10 Vert(CT) n/a n/a 999

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

15

n/a

n/a

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

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.

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

Weight: 155 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

REACTIONS. All bearings 24-0-0.

Max Horz 1=-183(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 23, 24, 26, 27, 28, 20, 19, 18, 17, 16

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 15, 23, 24, 26, 27, 28, 20, 19, 18, 17, 16 except 22=275(LC 19), 21=259(LC 21)

WB

Matrix-S

0.08

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.

Rep Stress Incr

Code FBC2020/TPI2014

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-1 to 4-0-0, Interior(1) 4-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 23-0-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 23, 24, 26, 27, 28, 20, 19, 18, 17, 16.

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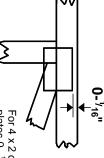


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

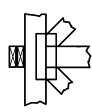
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



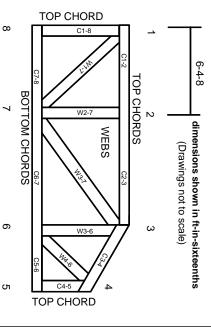
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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