

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

RE: 2809728 - HOUSECRAFT - SORTO RES.

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Housecraft Homes Project Name: Sorto Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: PID # R04-060-129, N/A
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 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

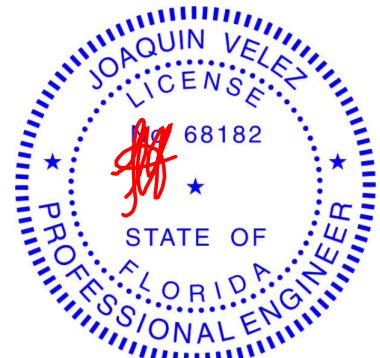
This package includes 21 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T24168197	CJ01	6/1/21
2	T24168198	CJ03	6/1/21
3	T24168199	CJ03A	6/1/21
4	T24168200	CJ05	6/1/21
5	T24168201	CJ05A	6/1/21
6	T24168202	EJ01	6/1/21
7	T24168203	EJ02	6/1/21
8	T24168204	EJ03	6/1/21
9	T24168205	HJ05	6/1/21
10	T24168206	HJ10	6/1/21
11	T24168207	HJ10A	6/1/21
12	T24168208	T01	6/1/21
13	T24168209	T02	6/1/21
14	T24168210	T03	6/1/21
15	T24168211	T04	6/1/21
16	T24168212	T05	6/1/21
17	T24168213	T06	6/1/21
18	T24168214	T07	6/1/21
19	T24168215	T08	6/1/21
20	T24168216	T09	6/1/21
21	T24168217	T10	6/1/21

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-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin
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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1, 2021

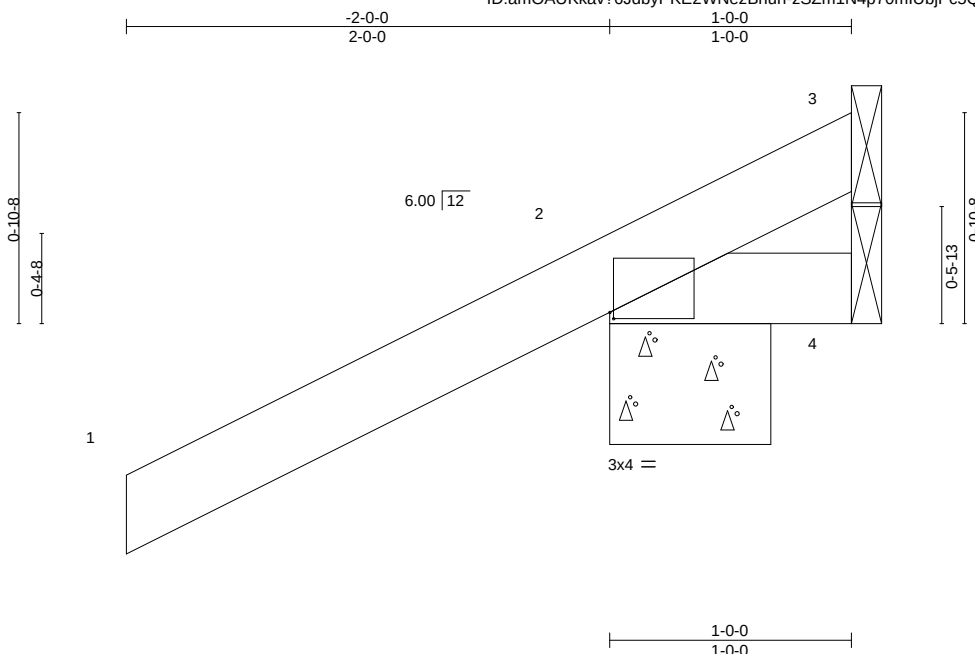
Job 2809728	Truss CJ01	Truss Type Jack-Open	Qty 12	Ply 1	HOUSECRAFT - SORTO RES. T24168197
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:04 2021 Page 1

ID:amOAUkKav76JdbyPKE2WNezBhuh-zSZm1N4p70mIUbjPc5Q6_pg8eWaBmY?Xu2EUkzBfvr



Scale = 1:9.5

Plate Offsets (X,Y)--		[2:0-0-3,0-0-5]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25
TCDL 7.0	Lumber DOL	1.25	BC 0.06
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MP
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.00 7 >999 240
			Vert(CT) 0.00 7 >999 180
			Horz(CT) 0.00 2 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 7 lb FT = 20%

LUMBER-

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

BRACING-

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

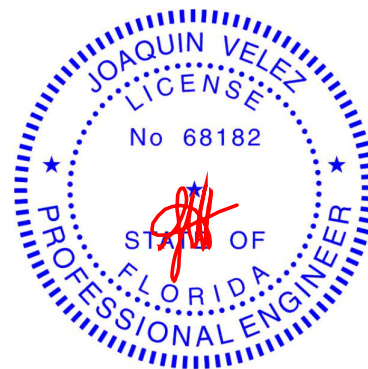
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=46(LC 12)
Max Uplift 3=-27(LC 1), 2=-102(LC 12), 4=-46(LC 1)
Max Grav 3=16(LC 16), 2=254(LC 1), 4=29(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 27 lb uplift at joint 3, 102 lb uplift at joint 2 and 46 lb uplift at joint 4.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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

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

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



6904 Parke East Blvd.
Tampa, FL 36610

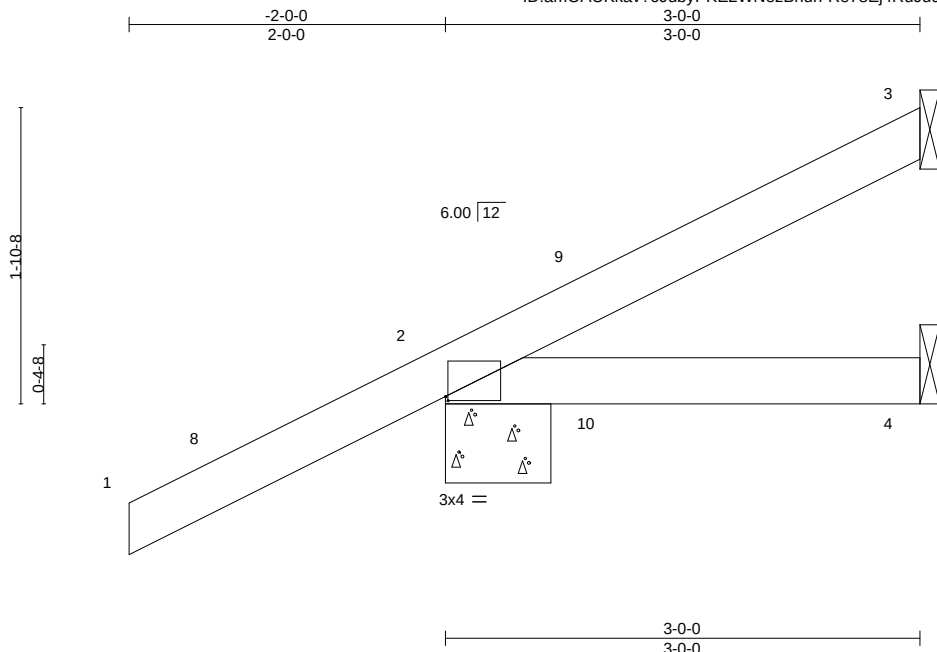
Job 2809728	Truss CJ03	Truss Type Jack-Open	Qty 6	Ply 1	HOUSECRAFT - SORTO RES. T24168198
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:05 2021 Page 1

ID:amOAUkKav?6JdbypKE2WNezBhuh-Re78Ej4RuJu96llb9pxLW0DJ0wv_V?Fg7iz2GAzBfvq



Scale = 1:14.6

Plate Offsets (X,Y)--		[2:0-0-3,0-0-5]									
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 0.25	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.01	4-7	>999	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/TPI2014		Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

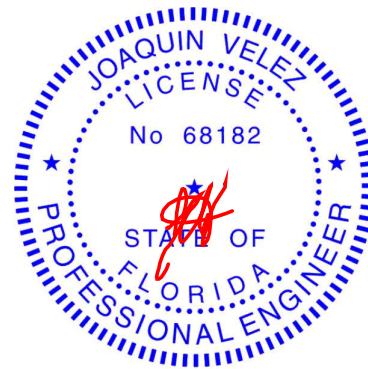
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=80(LC 12)
Max Uplift 3=31(LC 12), 2=-76(LC 12), 4=-14(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 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 31 lb uplift at joint 3, 76 lb uplift at joint 2 and 14 lb uplift at joint 4.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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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

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

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



6904 Parke East Blvd.
Tampa, FL 36610

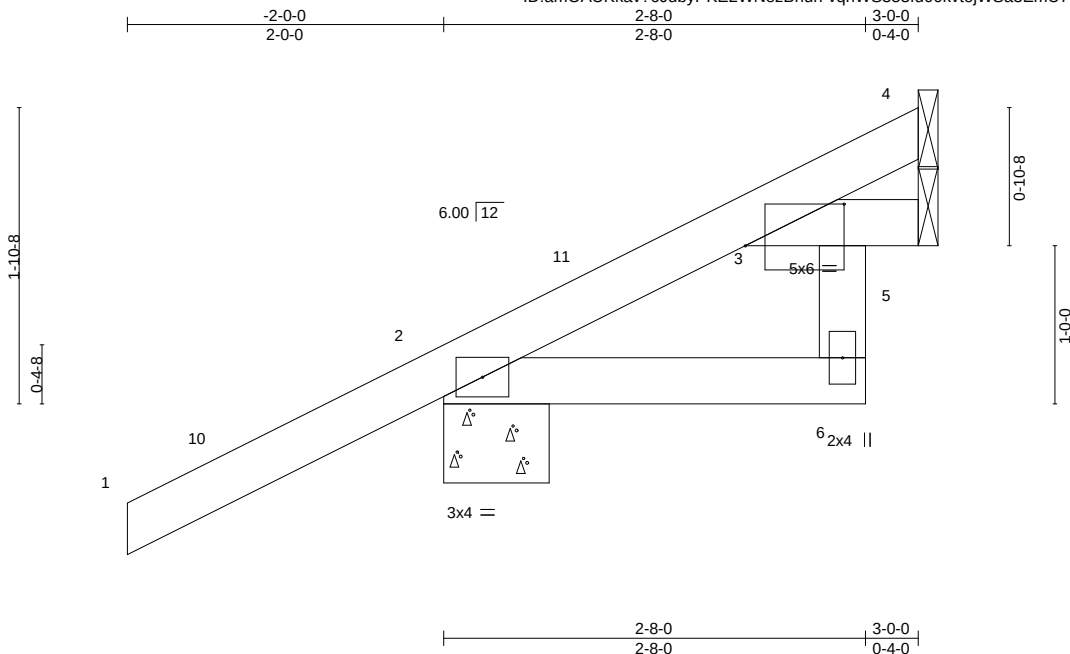
Job 2809728	Truss CJ03A	Truss Type Jack-Open	Qty 2	Ply 1	HOUSECRAFT - SORTO RES. T24168199
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:06 2021 Page 1

ID:amOAUkKav?6JdbyPKE2WNezBhuh-vqhWS353fd00kvtjWSa3EmU7KFDESvqMMjbodzBfvp



Scale = 1:14.6

Plate Offsets (X,Y)-- [3:0-7-8,0-3-3]												
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	0.25	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MR							Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

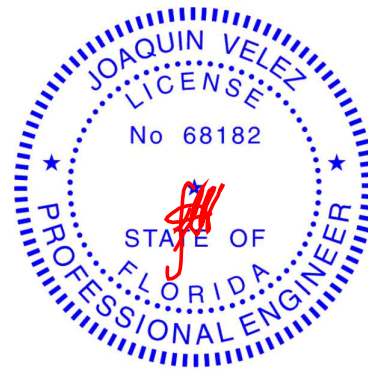
REACTIONS.

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 2=80(LC 12)
Max Uplift 4=-17(LC 12), 2=-76(LC 12), 5=-6(LC 12)
Max Grav 4=42(LC 1), 2=255(LC 1), 5=45(LC 3)

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

NOTES-

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 4, 76 lb uplift at joint 2 and 6 lb uplift at joint 5.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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

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

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



6904 Parke East Blvd.
Tampa, FL 36610

6904 Parke East Blvd
Tampa, FL 36610

Job 2809728	Truss CJ05A	Truss Type Jack-Open	Qty 2	Ply 1	HOUSECRAFT - SORTO RES. T24168201
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:07 2021 Page 1
ID:amOAUkKav?6JdbyPKE2WNezBhuh-O1FufO6iQx8tL3R_HD_pbRldOkZ?zvlza?S9L3zBfvo

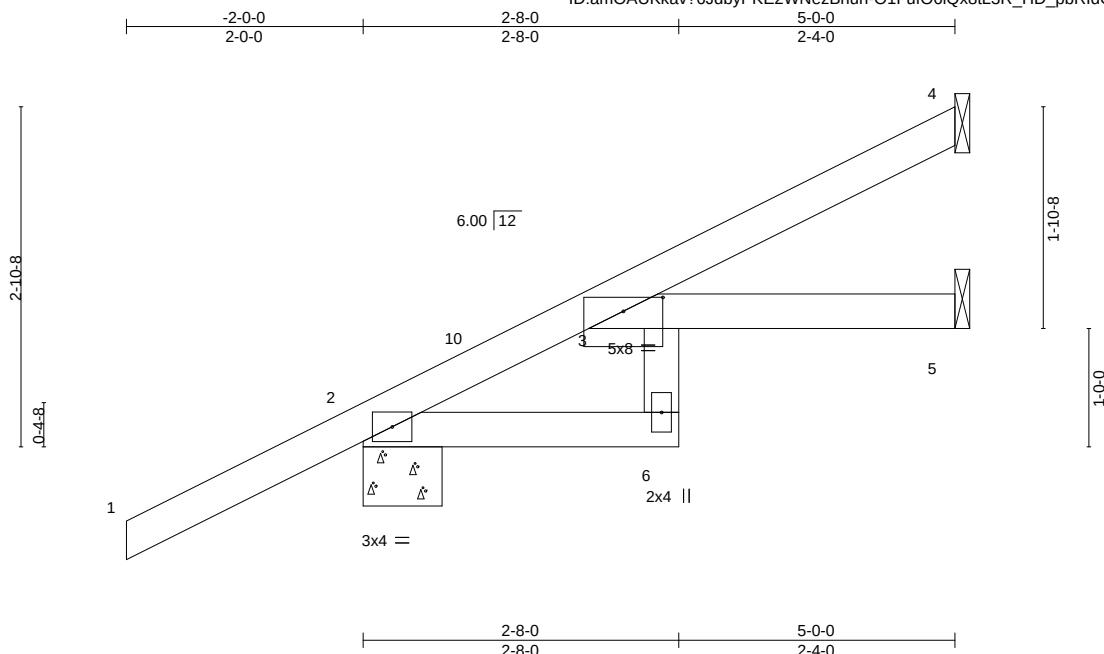


Plate Offsets (X,Y)-- [3:0-4-0,0-1-7]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	0.05 6 >999 240
TCDL 7.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.08 6 >763 180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.04 5 n/a n/a
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR		
				PLATES	GRIP
				MT20	244/190
				Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

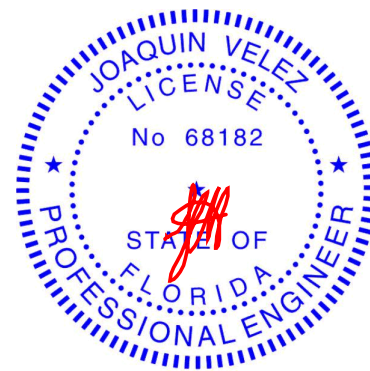
REACTIONS.

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 4=-50(LC 12), 2=-79(LC 12), 5=-10(LC 12)
Max Grav 4=97(LC 1), 2=316(LC 1), 5=82(LC 3)

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

NOTES-

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 4, 79 lb uplift at joint 2 and 10 lb uplift at joint 5.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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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

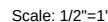
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



6904 Parke East Blvd.
Tampa, FL 36610

Builders FirstSource (Jacksonville, FL) Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:08 2021 Page 1
ID:amOAUkKav?6JdbypKE2WNzBhuh-sDpGsk7KBEGkzD0ArxV28frkA7r7iM_7pfCltvZbBfvn



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.

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., GCp=-0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; 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 84 lb uplift at joint 3 and 90 lb uplift at joint 2.



June 1, 2021



WARNING – Velly design parameters are listed in the following table and are included with the reference code MIF-473-161, 3/29/2020 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 BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.



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Tampa, FL 36610

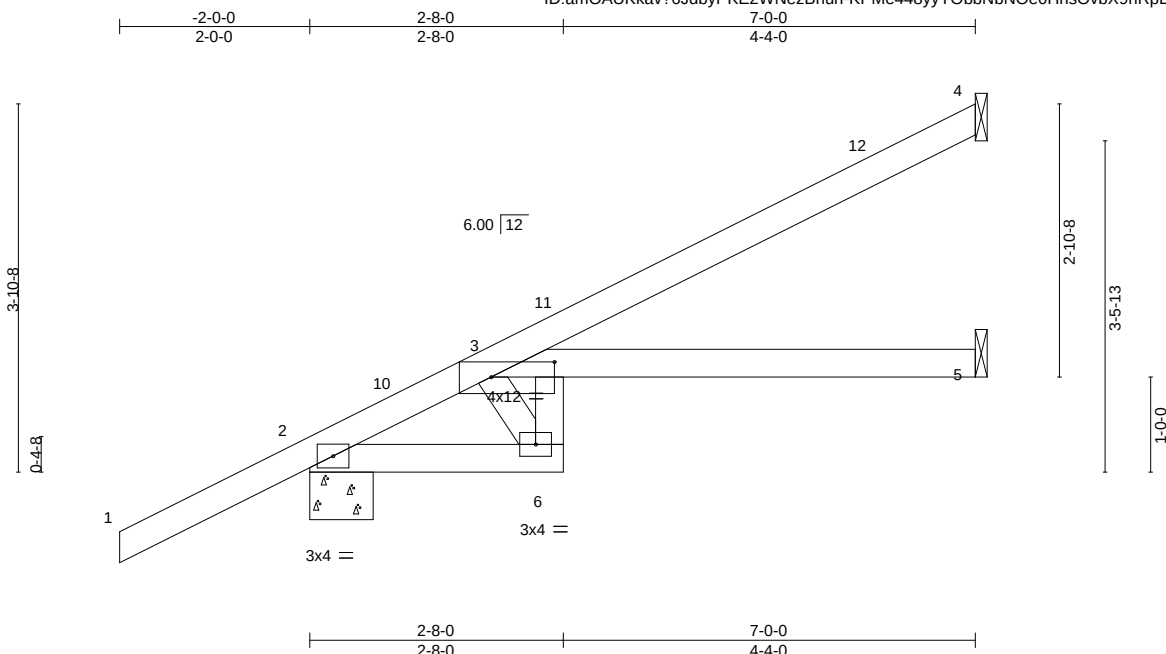
Job 2809728	Truss EJ02	Truss Type Jack-Partial	Qty 3	Ply 1	HOUSECRAFT - SORTO RES. T24168203
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:09 2021 Page 1

ID:amOAUkKav?6JdbypKE2WNezBhuh-KPMe448yyYObbNbNoe0HsOvbX9hRpEG2JxFPyzBfvm



Scale: 1/2"=1'

Plate Offsets (X,Y)--		[3:0-8-0,0-1-15]									
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 0.62	Vert(LL)	0.16	6	>536	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.26	6	>316	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.12	5	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR								
										Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

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

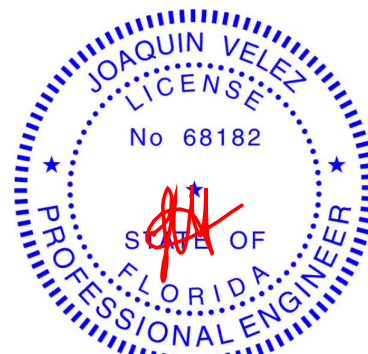
REACTIONS.

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 2=144(LC 12)
Max Uplift 4=-71(LC 12), 2=-88(LC 12), 5=-9(LC 12)
Max Grav 4=150(LC 1), 2=386(LC 1), 5=121(LC 3)

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

NOTES-

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 4, 88 lb uplift at joint 2 and 9 lb uplift at joint 5.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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



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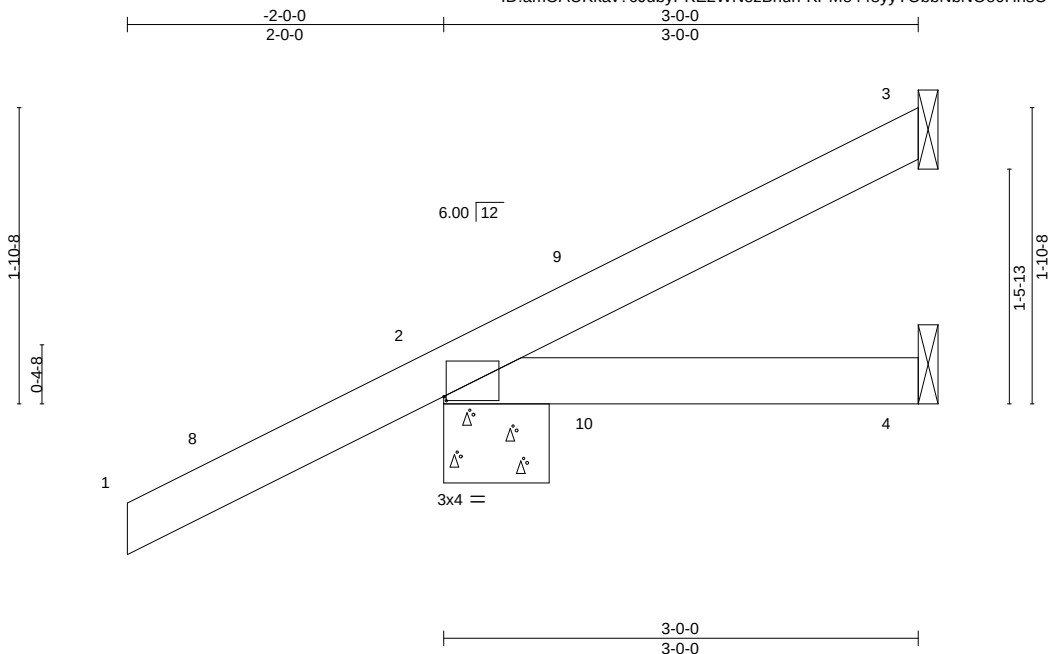
Job 2809728	Truss EJ03	Truss Type Jack-Partial	Qty 1	Ply 1	HOUSECRAFT - SORTO RES. T24168204
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:09 2021 Page 1

ID:amOAUkKav?6JdbyPKE2WNezBhuh-KPMe448yyYObbNbNOe0HhsO?NXGvRpEG2JxFPyzBfvm



Scale = 1:14.6

Plate Offsets (X,Y)--		[2:0-0-3,0-0-5]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25
TCDL 7.0	Lumber DOL	1.25	BC 0.09
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.01 4-7 >999 240
			Vert(CT) -0.01 4-7 >999 180
			Horz(CT) -0.00 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 13 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

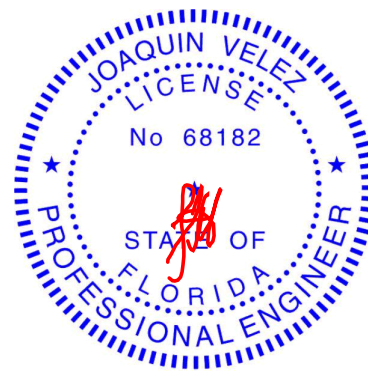
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=80(LC 12)
Max Uplift 3=31(LC 12), 2=-76(LC 12), 4=-14(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 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 31 lb uplift at joint 3, 76 lb uplift at joint 2 and 14 lb uplift at joint 4.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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

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



6904 Parke East Blvd.
Tampa, FL 36610

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:11 2021 Page 1
ID:amQAUkKav26JdhvPKE2WNezBhuh-GolJPvm9CT9eJagglW32ImHTG9lt9vikZVdQMlJazBfyk

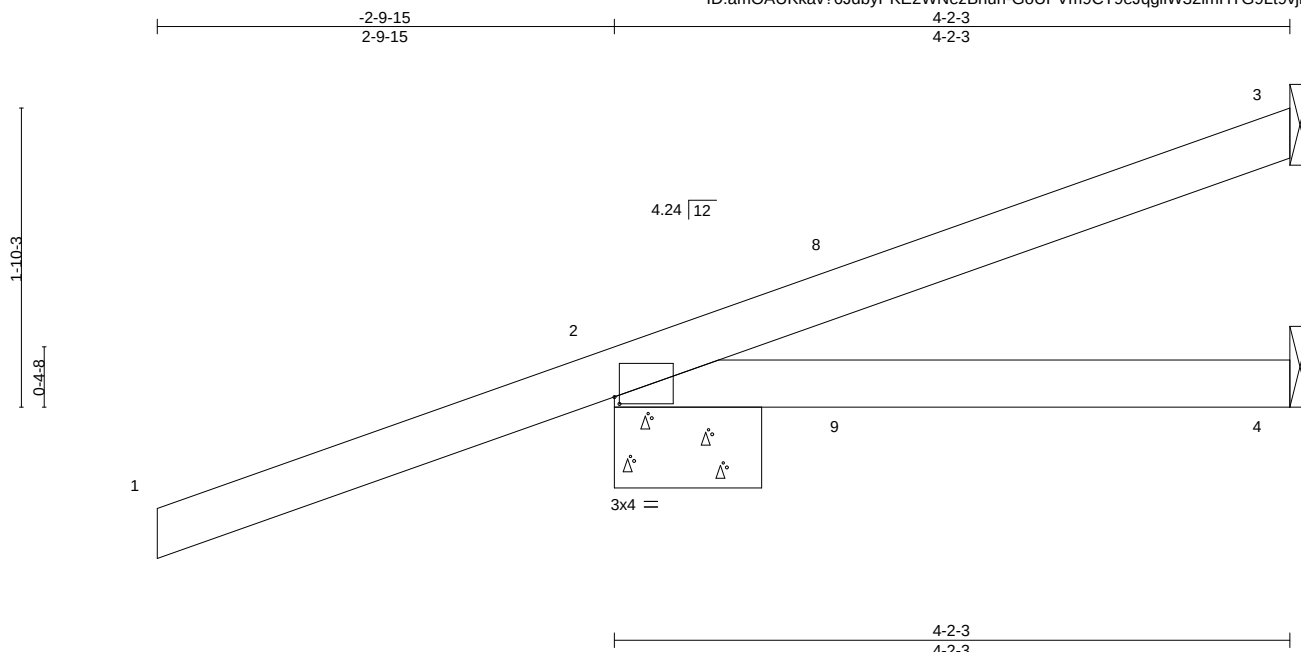


Plate Offsets (X,Y)--		[2:0-0-6,0-0-8]		4-2-3								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	0.05	4-7	>991	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-10-15, 4=Mechanical
Max Horiz 2=96(LC 4)
Max Uplift 3=-37(LC 8), 2=-149(LC 4), 4=-28(LC 16)
Max Grav 3=66(LC 35), 2=282(LC 1), 4=63(LC 22)

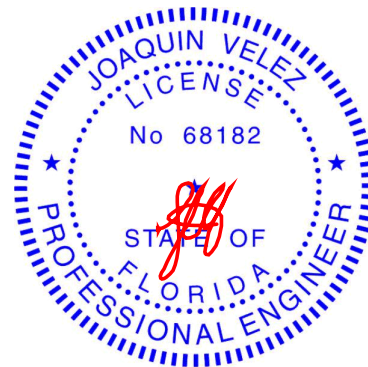
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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., GCp=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 37 lb uplift at joint 3, 149 lb uplift at joint 2 and 28 lb uplift at joint 4.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, and 56 lb down and 103 lb up at 1-6-1, and 22 lb down and 36 lb up at 4-1-7 on top chord, and 44 lb down and 74 lb up at 1-6-1, and 44 lb down and 74 lb up at 1-6-1, and 35 lb down and 21 lb up at 4-1-7 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=-13(F) 4=-6(F) 8=50(F=25, B=25) 9=70(F=35, B=35)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1, 2021

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

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



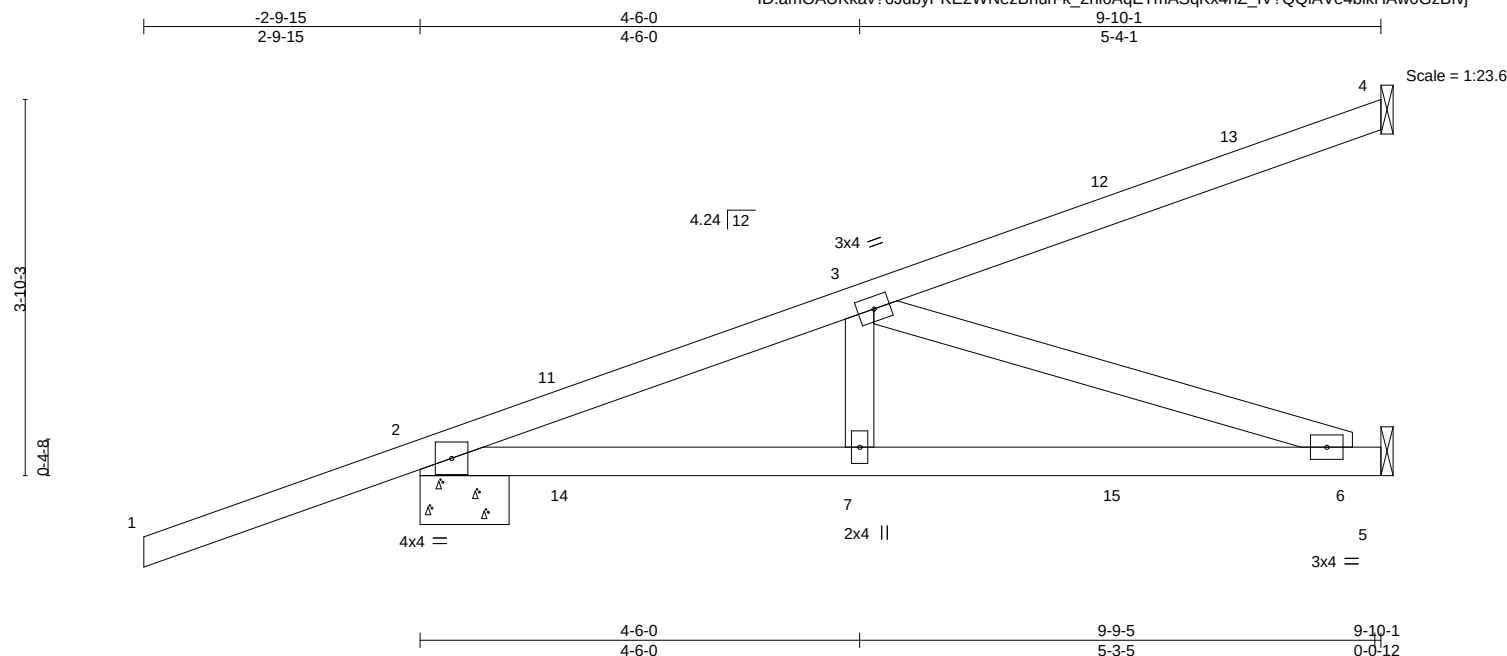
6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - SORTO RES.	T24168206
2809728	HJ10	Diagonal Hip Girder	3	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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ID:amOAUkKav?6JdbyPKE2WNzBhuh-k_2ni6AqETmASqKx4nZ_IV?QQLAVe4bikHaw0GzBfvj



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 0.59	Vert(LL)	-0.05	6-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.12	6-7	>967	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.35	Horz(CT)	0.01	5	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz 2=160(LC 4)
Max Uplift 4=-79(LC 4), 2=-190(LC 4), 5=-61(LC 8)
Max Grav 4=150(LC 1), 2=463(LC 1), 5=266(LC 3)

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

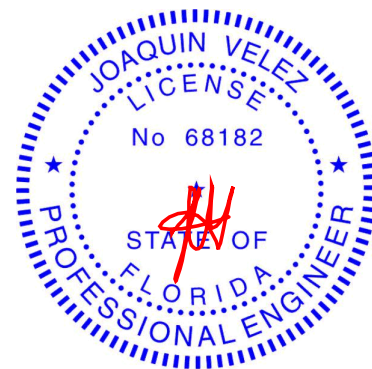
TOP CHORD 2-3=-628/204
BOT CHORD 2-7=-239/573, 6-7=-239/573
WEBS 3-6=-603/251

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; 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 79 lb uplift at joint 4, 190 lb uplift at joint 2 and 61 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, 56 lb down and 103 lb up at 1-6-1, 20 lb down and 33 lb up at 4-4-0, 20 lb down and 33 lb up at 4-4-0, and 41 lb down and 75 lb up at 7-1-15, and 41 lb down and 75 lb up at 7-1-15 on top chord, and 21 lb down and 74 lb up at 1-6-1, 21 lb down and 74 lb up at 1-6-1, 19 lb down and 21 lb up at 4-4-0, 19 lb down and 21 lb up at 4-4-0, and 42 lb down at 7-1-15, and 42 lb down at 7-1-15 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: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=5(F=2, B=2) 11=50(F=25, B=25) 12=-64(F=-32, B=-32) 14=70(F=35, B=35) 15=-49(F=-24, B=-24)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1, 2021

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



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - SORTO RES.	T24168207
2809728	HJ10A	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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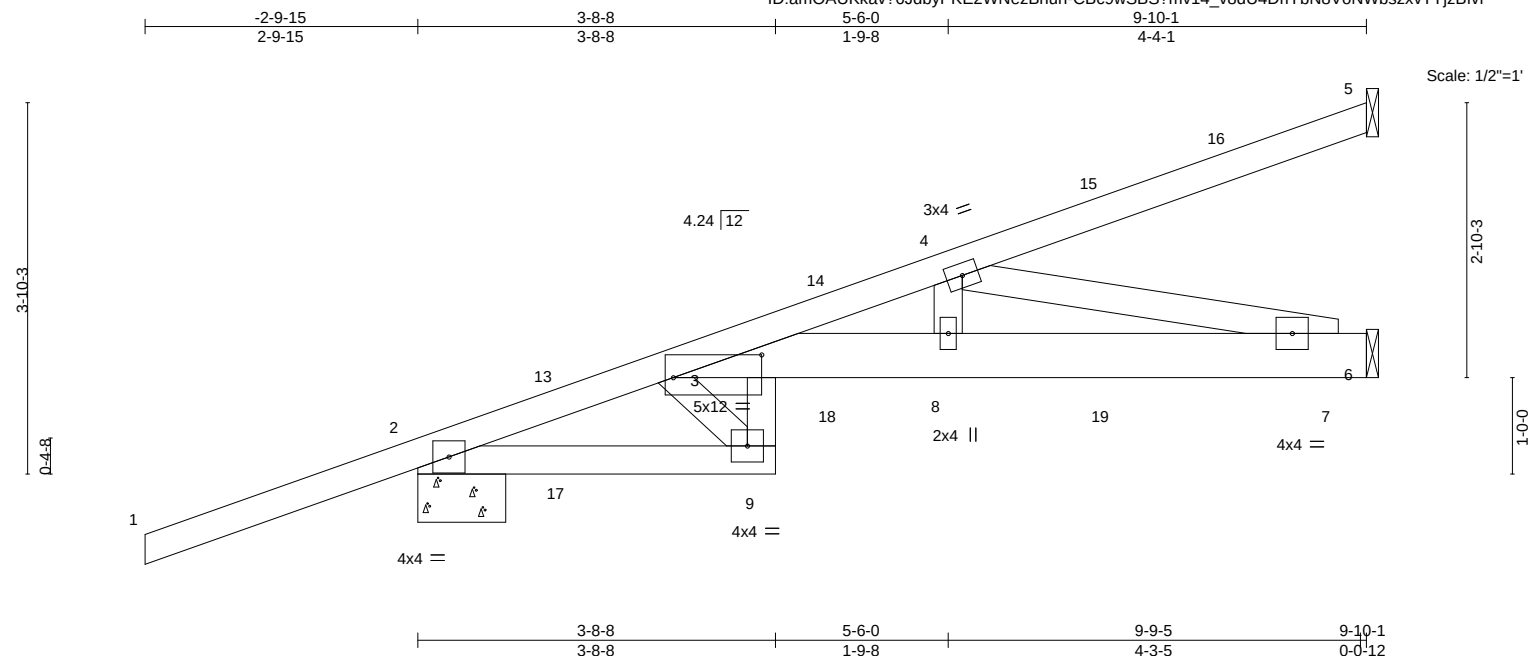


Plate Offsets (X,Y)--		[3:0-11-0,0-2-13]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.64		Vert(LL)	-0.20 9	>594	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.67		Vert(CT)	-0.33 9	>358	180		
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.43		Horz(CT)	0.12 6	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 52 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31
 BOT CHORD 2x4 SP No.2 *Except*
 3-9: 2x4 SP No.3, 3-6: 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 5=Mechanical, 2=0-10-15, 6=Mechanical
 Max Horz 2=160(LC 22)
 Max Uplift 5=-49(LC 4), 2=-187(LC 4), 6=-97(LC 8)
 Max Grav 5=110(LC 1), 2=486(LC 1), 6=312(LC 1)

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

TOP CHORD 3-4=-1162/373
 BOT CHORD 3-8=-425/1105, 7-8=-427/1112
 WEBS 4-8=-68/353, 4-7=-1141/438

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; 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 49 lb uplift at joint 5, 187 lb uplift at joint 2 and 97 lb uplift at joint 6.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, 56 lb down and 103 lb up at 1-6-1, 66 lb down and 18 lb up at 4-4-0, 66 lb down and 18 lb up at 4-4-0, and 42 lb down and 60 lb up at 7-1-15, and 42 lb down and 60 lb up at 7-1-15 on top chord, and 21 lb down and 74 lb up at 1-6-1, 21 lb down and 74 lb up at 1-6-1, 25 lb down and 15 lb up at 4-4-0, 25 lb down and 15 lb up at 4-4-0, and 42 lb down and 26 lb up at 7-1-15, and 42 lb down and 26 lb up at 7-1-15 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, 3-5=-54, 9-10=-20, 3-6=-20



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

June 1,2021

Continued on page 2

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



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - SORTO RES.	T24168207
2809728	HJ10A	Diagonal Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 13=50(F=25, B=25) 14=-3(F=-1, B=-1) 15=-41(F=-21, B=-21) 17=70(F=35, B=35) 18=-21(F=-11, B=-11) 19=-77(F=-39, B=-39)

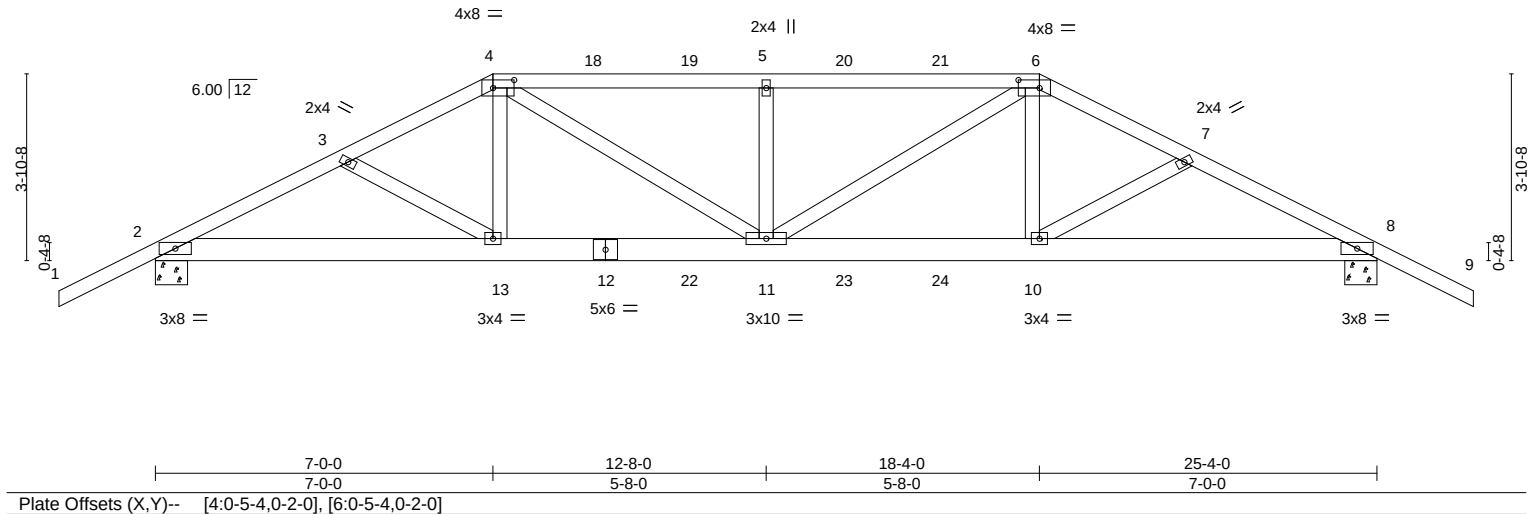
Job 2809728	Truss T01	Truss Type Hip Girder	Qty 1	Ply 1	HOUSECRAFT - SORTO RES. T24168208
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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ID:amOAUkKav?6JdbyPKE2WNezBhuh-9ZkwK8CjXO9kJI3Wlv7hw7d_RyAurQK9QFOadbzBfvg

-2-0-0	3-11-15	7-0-0	12-8-0	18-4-0	21-4-1	25-4-0	27-4-0
2-0-0	3-11-15	3-0-1	5-8-0	5-8-0	3-0-1	3-11-15	2-0-0

Scale: 1/4"=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 0.41	Vert(LL)	-0.16	11	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.30	11	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.08	8	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
									Weight: 149 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 2-11-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-1-14 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 8=0-8-0
Max Horz 2=-67(LC 13)
Max Uplift 2=-503(LC 8), 8=-516(LC 9)
Max Grav 2=1873(LC 1), 8=1907(LC 1)

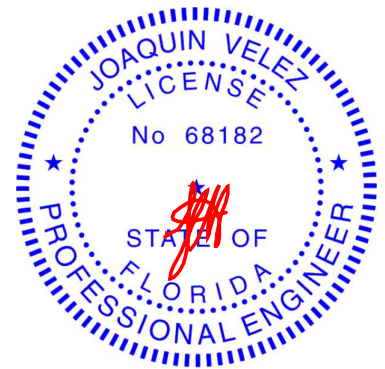
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3562/938, 3-4=-3402/897, 4-5=-3910/1040, 5-6=-3910/1040, 6-7=-3478/925,
7-8=-3638/967
BOT CHORD 2-13=-828/3148, 11-13=-747/3046, 10-11=-734/3113, 8-10=-787/3215
WEBS 4-13=-56/676, 4-11=-329/1074, 5-11=-730/380, 6-11=-272/981, 6-10=-55/679

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 503 lb uplift at joint 2 and 516 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 81 lb up at 12-8-0, 106 lb down and 88 lb up at 14-3-4, and 106 lb down and 88 lb up at 16-3-4, and 227 lb down and 174 lb up at 18-4-0 on top chord, and 294 lb down and 88 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 12-8-0, 85 lb down at 14-3-4, and 85 lb down at 16-3-4, and 294 lb down and 88 lb up at 18-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25



Joaquin Velez PE No.68182
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Date:

June 1,2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - SORTO RES.	T24168208
2809728	T01	Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S)
Standard

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 6-9=-54, 2-8=-20

Concentrated Loads (lb)

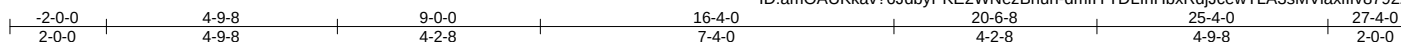
Vert: 4=-106(B) 6=-180(B) 12=-61(B) 13=-284(B) 11=-61(B) 5=-106(B) 10=-284(B) 18=-106(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-61(B) 23=-61(B) 24=-61(B)

Job 2809728	Truss T02	Truss Type Hip	Qty 1	Ply 1	HOUSECRAFT - SORTO RES. T24168209
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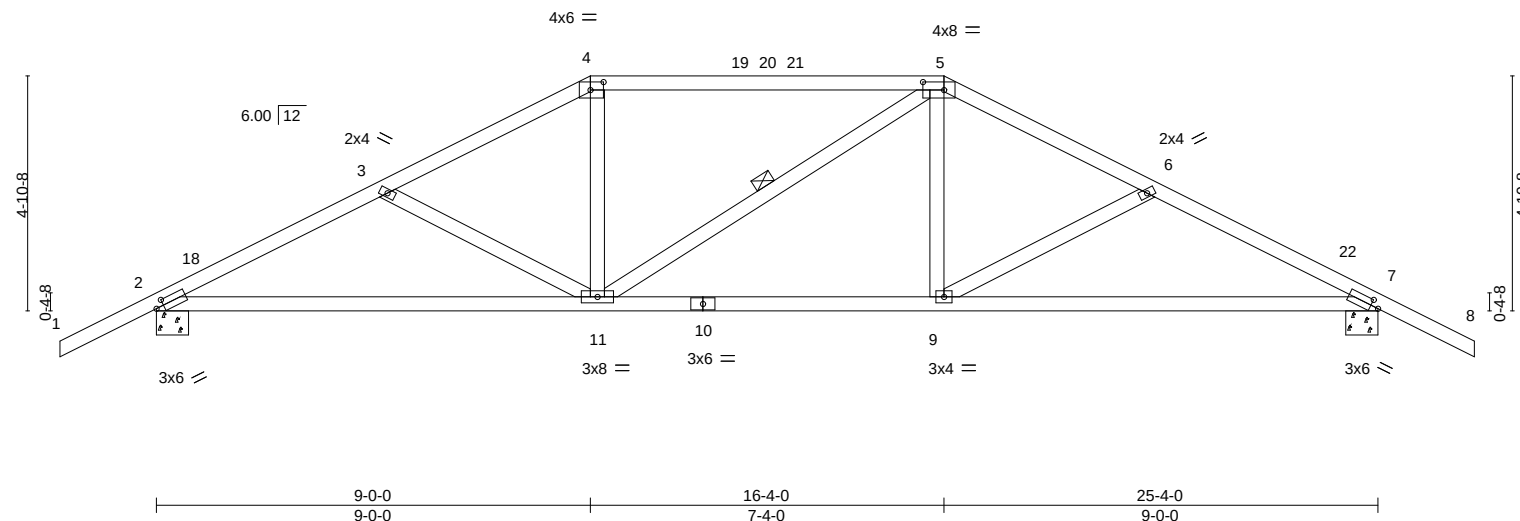
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:16 2021 Page 1

ID:amOAUkKav?6JdbyPKE2WNezBhuh-dmIlyTDLhHbxRdjJcewTLA3sMVlaxilfv8792zBfvf



Scale: 1/4"=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 0.81	Vert(LL)	-0.15	9-17	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.31	9-17	>975	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.05	7	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 125 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS.

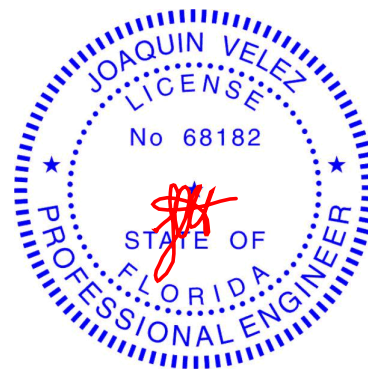
(size) 2=0-8-0, 7=0-8-0
Max Horz 2=82(LC 12)
Max Uplift 2=-244(LC 12), 7=-244(LC 13)
Max Grav 2=1045(LC 1), 7=1045(LC 1)

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

TOP CHORD 2-3=-1640/360, 3-4=-1398/304, 4-5=-1215/302, 5-6=-1398/305, 6-7=-1640/360
BOT CHORD 2-11=-321/1437, 9-11=-147/1215, 7-9=-254/1437
WEBS 3-11=-263/153, 4-11=-20/382, 5-9=-23/382, 6-9=-263/153

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 16-4-0, Exterior(2R) 16-4-0 to 20-8-7, Interior(1) 20-8-7 to 27-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint 2 and 244 lb uplift at joint 7.



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MiTek USA, Inc. FL Cert 6634
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Date:

June 1,2021

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 2809728	Truss T03	Truss Type Hip	Qty 2	Ply 1	HOUSECRAFT - SORTO RES. T24168210
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:17 2021 Page 1

ID:amOAUkkav?6JdbyPKE2WNezBhuh-5yrglpEz3?PSYbCvsK99?YjMxmWVJLsRtZtghUzBfve

-2-0-0 2-0-0	5-7-15 5-7-15	11-0-0 5-4-1	14-4-0 3-4-0	19-8-1 5-4-1	25-4-0 5-7-15	27-4-0 2-0-0
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Scale: 1/4"=1'

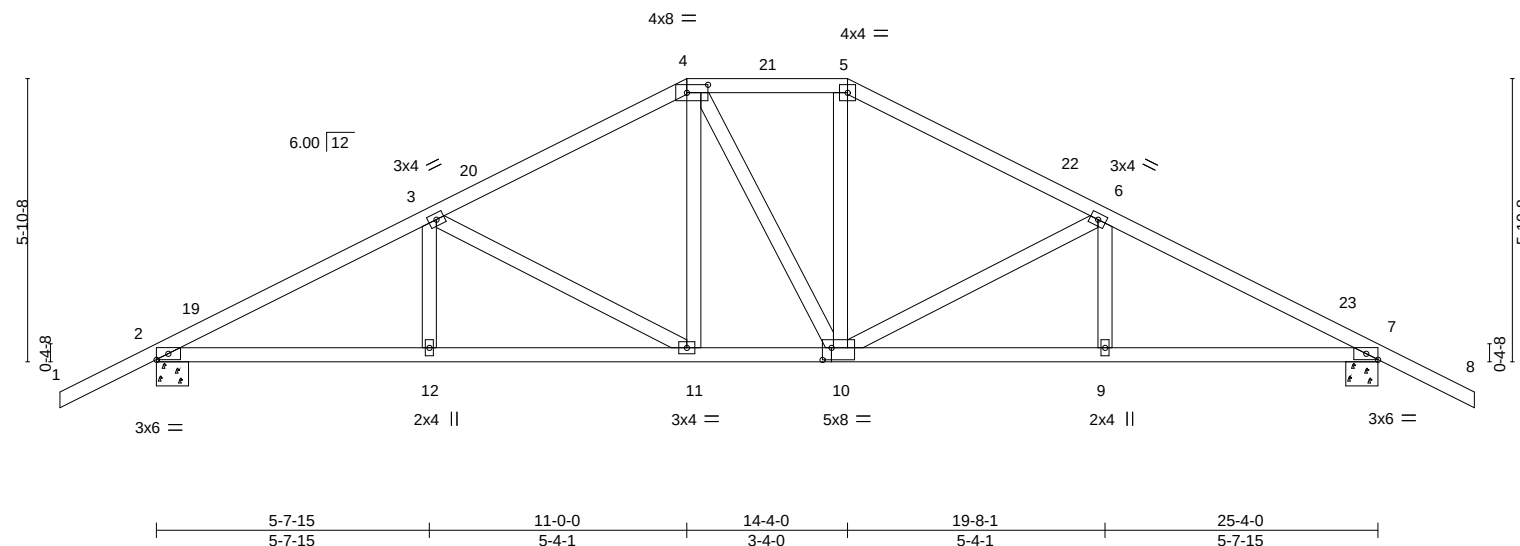


Plate Offsets (X,Y)--		[4:0-5-4,0-2-0], [7:0-2-15,Edge], [10:0-2-4,0-3-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.07 11-12	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.14 11-12	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.05 7	n/a	n/a
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS				
				PLATES	GRIP		
				MT20	244/190		
				Weight: 136 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

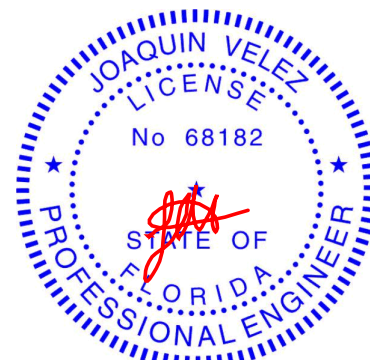
(size) 2=0-8-0, 7=0-8-0
Max Horz 2=97(LC 12)
Max Uplift 2=-241(LC 12), 7=-241(LC 13)
Max Grav 2=1045(LC 1), 7=1045(LC 1)

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

TOP CHORD 2-3=-1675/332, 3-4=-1230/287, 4-5=-1043/288, 5-6=-1231/287, 6-7=-1674/332
BOT CHORD 2-12=-305/1446, 11-12=-305/1446, 10-11=-142/1042, 9-10=-228/1446, 7-9=-228/1446
WEBS 3-11=-469/187, 4-11=-62/327, 5-10=-59/328, 6-10=-468/187

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2E) 11-0-0 to 14-4-0, Exterior(2R) 14-4-0 to 18-6-15, Interior(1) 18-6-15 to 27-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 2 and 241 lb uplift at joint 7.



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Date:

June 1,2021

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

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

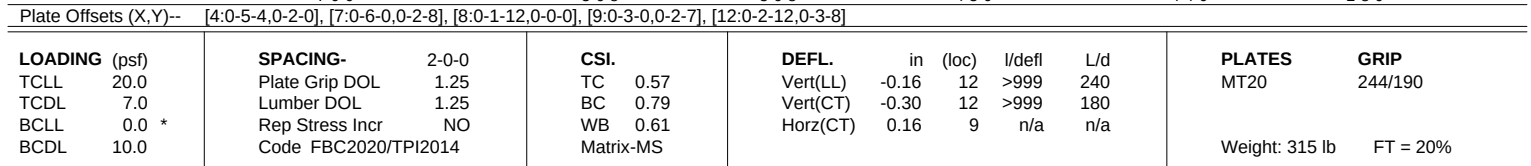


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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:20 2021 Page 1

Location	2-0-0	3-10-15	7-0-0	10-6-8	14-1-0	18-4-0	22-8-0	25-4-0
Builders FirstSource (Jacksonville, FL)	2-0-0	3-10-15	7-0-0	10-6-8	14-1-0	18-4-0	22-8-0	25-4-0
Jacksonville, FL - 32244	2-0-0	3-10-15	3-1-1	3-6-8	3-6-8	4-3-0	4-4-0	2-8-0

Scale = 1:45.9



TOP CHORD	Structural wood sheathing directly applied or 5-5-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

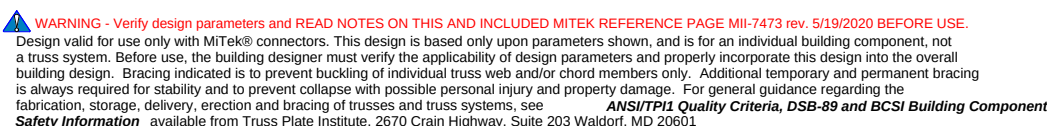
NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; 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; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 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 498 lb uplift at joint 9 and 509 lb uplift at joint 2.



June 1, 2021

Continued on page 2



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - SORTO RES.	T24168211
2809728	T04	HIP GIRDER	1	2	Job Reference (optional)	

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 81 lb up at 12-8-0, 96 lb down and 75 lb up at 14-3-4, and 96 lb down and 75 lb up at 16-3-4, and 115 lb down and 75 lb up at 18-4-0 on top chord, and 294 lb down and 88 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 12-8-0, 81 lb down and 29 lb up at 14-3-4, and 81 lb down and 29 lb up at 16-3-4, and 358 lb down and 155 lb up at 18-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 7-8=-54, 8-18=-54, 2-13=-20, 8-12=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 7=-96(F) 15=-284(F) 11=-358(F) 22=-106(F) 23=-106(F) 24=-106(F) 25=-96(F) 26=-96(F) 27=-61(F) 28=-61(F) 29=-61(F) 30=-74(F) 31=-74(F)

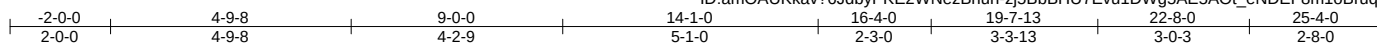


Job 2809728	Truss T05	Truss Type Hip	Qty 1	Ply 1	HOUSECRAFT - SORTO RES. T24168212
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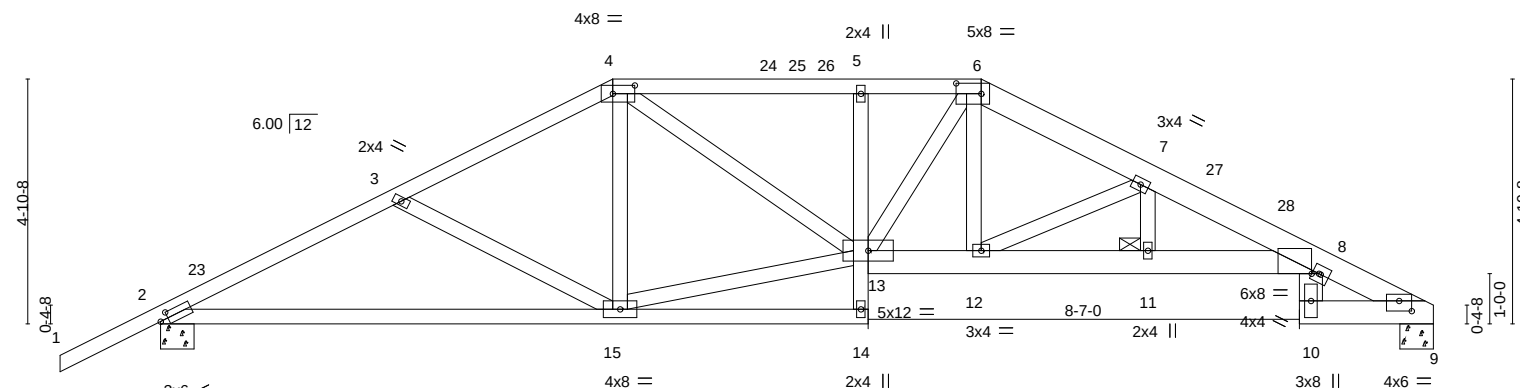
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:21 2021 Page 1

ID:amOAUkKav?6JdbYPKE2WNezBhuh-zj5BbBHU7Evu1DWg5AE5AOt_eNDEF8m1oBrugFzBfva



Scale = 1:45.9



	9-0-0	14-1-0	16-4-0	19-7-13	22-8-0	25-4-0
	9-0-0	5-1-0	2-3-0	3-3-13	3-0-3	2-8-0

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [4:0-5-4,0-2-0], [6:0-6-0,0-2-8], [8:0-1-12,0-0-0], [9:0-3-0,0-2-7]

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 0.49	Vert(LL)	-0.15 15-22	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.31 15-22	>968	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.15 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 154 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-9: 2x6 SP M 26
BOT CHORD 2x6 SP No.2 *Except*
2-14: 2x4 SP No.2, 5-14: 2x4 SP No.3, 8-13: 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 11

REACTIONS.

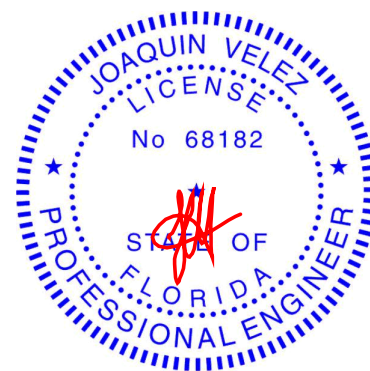
(size) 9=0-8-0, 2=0-8-0
Max Horz 2=98(LC 12)
Max Uplift 9=-193(LC 13), 2=-243(LC 12)
Max Grav 9=928(LC 1), 2=1038(LC 1)

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

TOP CHORD 2-3=-1631/368, 3-4=-1380/309, 4-5=-1613/386, 5-6=-1610/384, 6-7=-1728/379,
7-8=-2552/511, 8-18=-649/153
BOT CHORD 2-15=-337/1431, 12-13=-223/1497, 11-12=-416/2346, 8-11=-416/2346, 8-10=-96/507
WEBS 3-15=-285/159, 13-15=-181/1084, 4-13=-132/566, 6-13=-94/275, 6-12=-97/526,
7-12=-974/259, 7-11=-38/355

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 16-4-0, Exterior(2R) 16-4-0 to 20-6-15, Interior(1) 20-6-15 to 25-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 9 and 243 lb uplift at joint 2.



Joaquin Velez PE No.68182
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Date:

June 1,2021

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

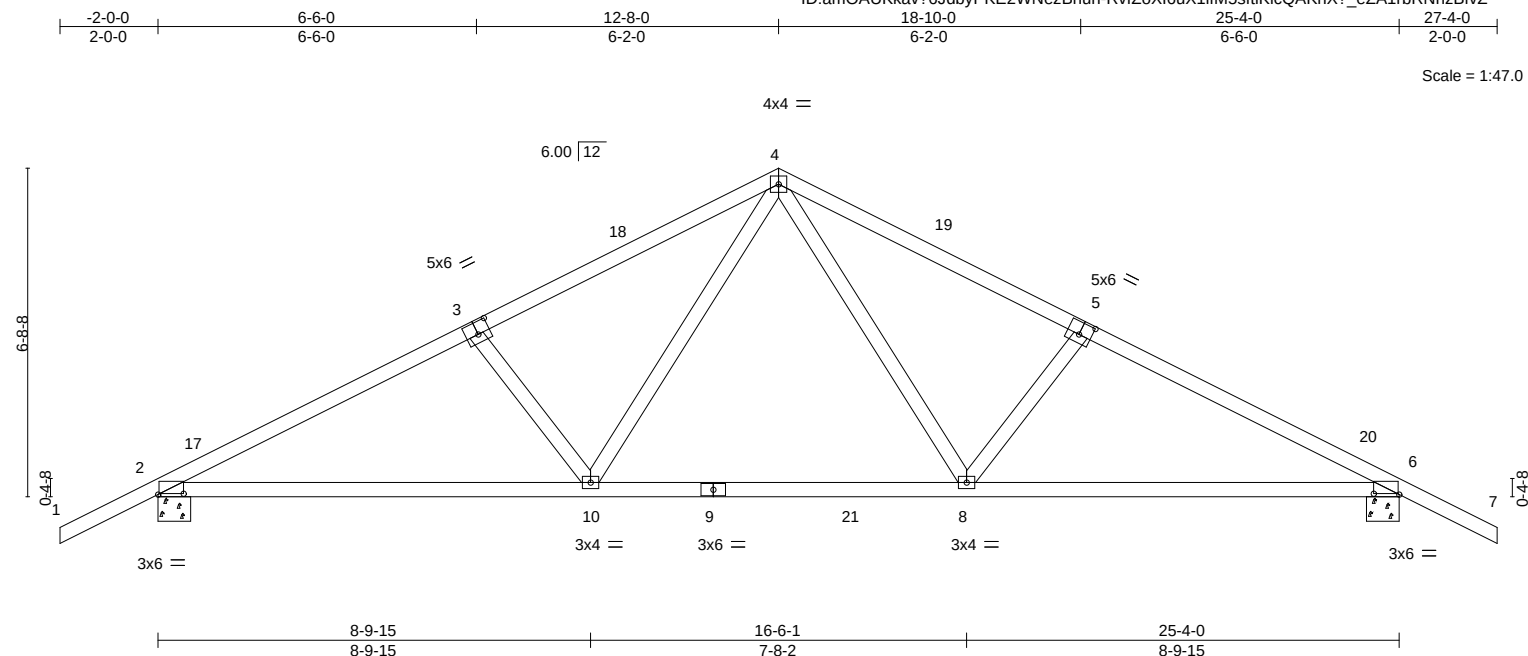
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 2809728	Truss T06	Truss Type Common	Qty 1	Ply 1	HOUSECRAFT - SORTO RES. T24168213
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					Job Reference (optional)

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:22 2021 Page 1
ID:amOAUkkav?6JdbyPKE2WNzBhuh-RvfZoxI6uX1fM5sfllKicQAKnX?_eZA1rbRNhzBfvZ



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 0.43	Vert(LL)	-0.14 8-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	-0.29 8-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.05 6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 120 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

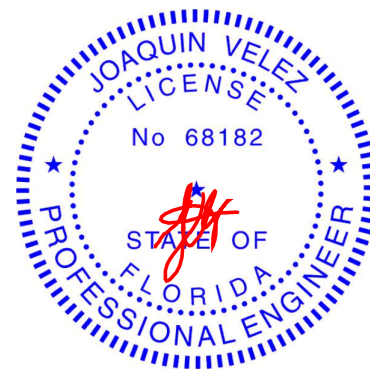
(size) 2=0-8-0, 6=0-8-0
Max Horz 2=-109(LC 13)
Max Uplift 2=-238(LC 12), 6=-238(LC 13)
Max Grav 2=1110(LC 2), 6=1110(LC 2)

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

TOP CHORD 2-3=-1723/367, 3-4=-1571/363, 4-5=-1571/363, 5-6=-1724/367
BOT CHORD 2-10=-306/1513, 8-10=-109/1011, 6-8=-245/1512
WEBS 4-8=-146/655, 5-8=-349/210, 4-10=-146/654, 3-10=-349/210

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 12-8-0, Exterior(2R) 12-8-0 to 15-8-0, Interior(1) 15-8-0 to 27-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 2 and 238 lb uplift at joint 6.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 2809728	Truss T07	Truss Type Scissor	Qty 6	Ply 1	HOUSECRAFT - SORTO RES. T24168214
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:23 2021 Page 1

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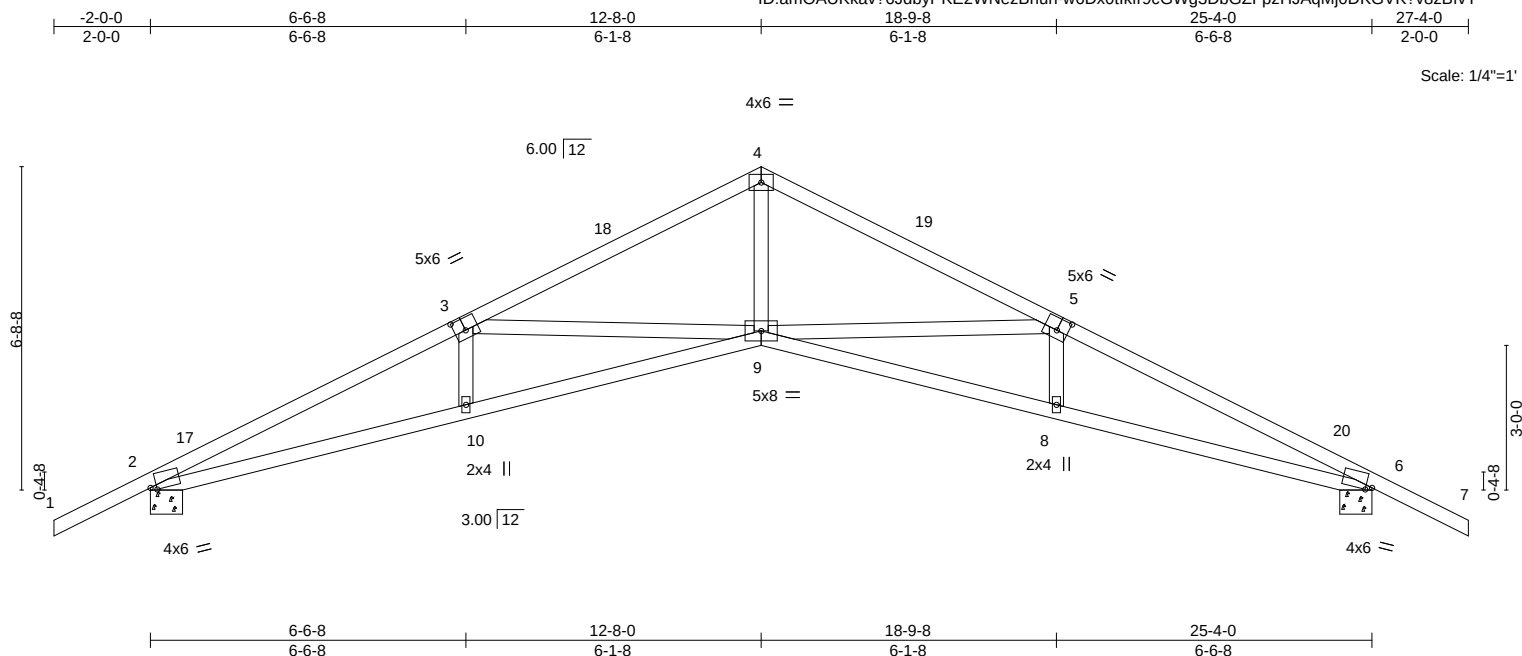


Plate Offsets (X,Y)--		[2:0-1-9,0-0-12], [3:0-2-12,0-3-0], [5:0-2-12,0-3-0], [6:0-1-9,0-0-12]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL 20.0		Plate Grip DOL	1.25	TC 0.67		Vert(LL)	-0.27 9-10	>999	240
TCDL 7.0		Lumber DOL	1.25	BC 0.97		Vert(CT)	-0.52 9-10	>587	180
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.54		Horz(CT)	0.33 6	n/a	n/a
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS					
						PLATES	GRIP		
						MT20	244/190		
						Weight: 115 lb	FT = 20%		

LUMBER-

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

BRACING-

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

REACTIONS.

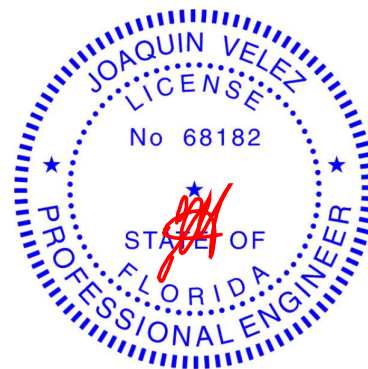
(size) 2=0-8-0, 6=0-8-0
Max Horz 2=-109(LC 13)
Max Uplift 2=-237(LC 12), 6=-237(LC 13)
Max Grav 2=1045(LC 1), 6=1045(LC 1)

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

TOP CHORD 2-3=-2792/572, 3-4=-2051/388, 4-5=-2051/378, 5-6=-2792/550
BOT CHORD 2-10=-540/2493, 9-10=-542/2513, 8-9=-423/2513, 6-8=-421/2493
WEBS 3-9=-722/317, 4-9=-194/1426, 5-9=-722/331

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 12-8-0, Exterior(2R) 12-8-0 to 15-8-0, Interior(1) 15-8-0 to 27-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 2 and 237 lb uplift at joint 6.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - SORTO RES.
2809728	T08	Scissor	2	1	T24168215
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:24 2021 Page 1

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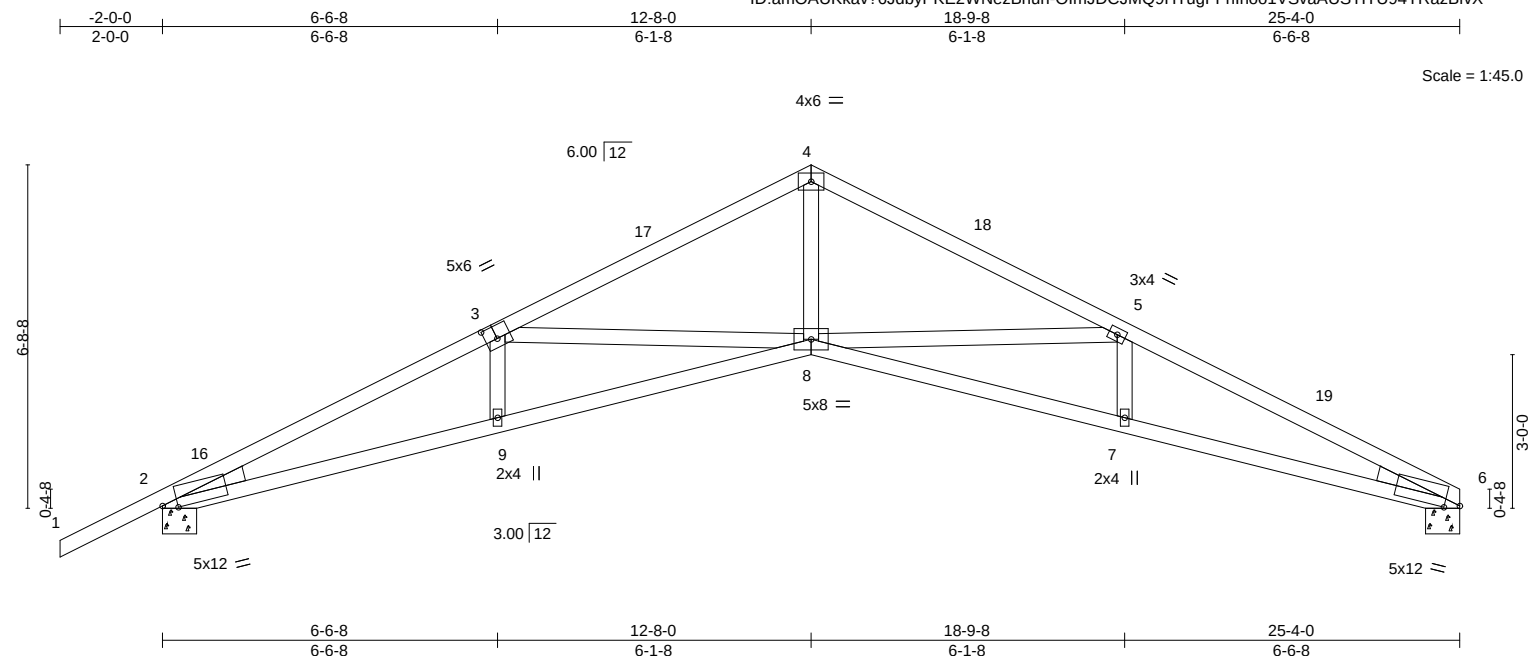


Plate Offsets (X,Y)--		[2:0-3-9,0-1-3], [3:0-2-12,0-3-0], [6:0-3-9,0-1-3]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	in (loc)	l/defl	L/d		MT20	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(LL)	-0.27	8-9	>999	244/190	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Vert(CT)	-0.52	8-9	>586		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Horz(CT)	0.33	6	n/a		
										Weight: 116 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

(size) 6=0-8-0, 2=0-8-0
 Max Horz 2=124(LC 16)
 Max Uplift 6=-193(LC 13), 2=-238(LC 12)
 Max Grav 6=933(LC 1), 2=1050(LC 1)

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

TOP CHORD 2-3=-2809/599, 3-4=-2067/431, 4-5=-2067/442, 5-6=-2849/613
 BOT CHORD 2-9=-570/2508, 8-9=-572/2528, 7-8=-504/2564, 6-7=-502/2550
 WEBS 3-8=-722/316, 4-8=-240/1445, 5-8=-758/346

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 12-8-0, Exterior(2R) 12-8-0 to 15-8-0, Interior(1) 15-8-0 to 25-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 6 and 238 lb uplift at joint 2.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

June 1,2021

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



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - SORTO RES.	T24168216
2809728	T09	Scissor	2	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:25 2021 Page 1

ID:amOAUkKav?6JdbyPKE2WNezBhuH-sUKiRYK_ASPKWqpRK?l1KE2d?_etBwYdjpp6z0zBfvW

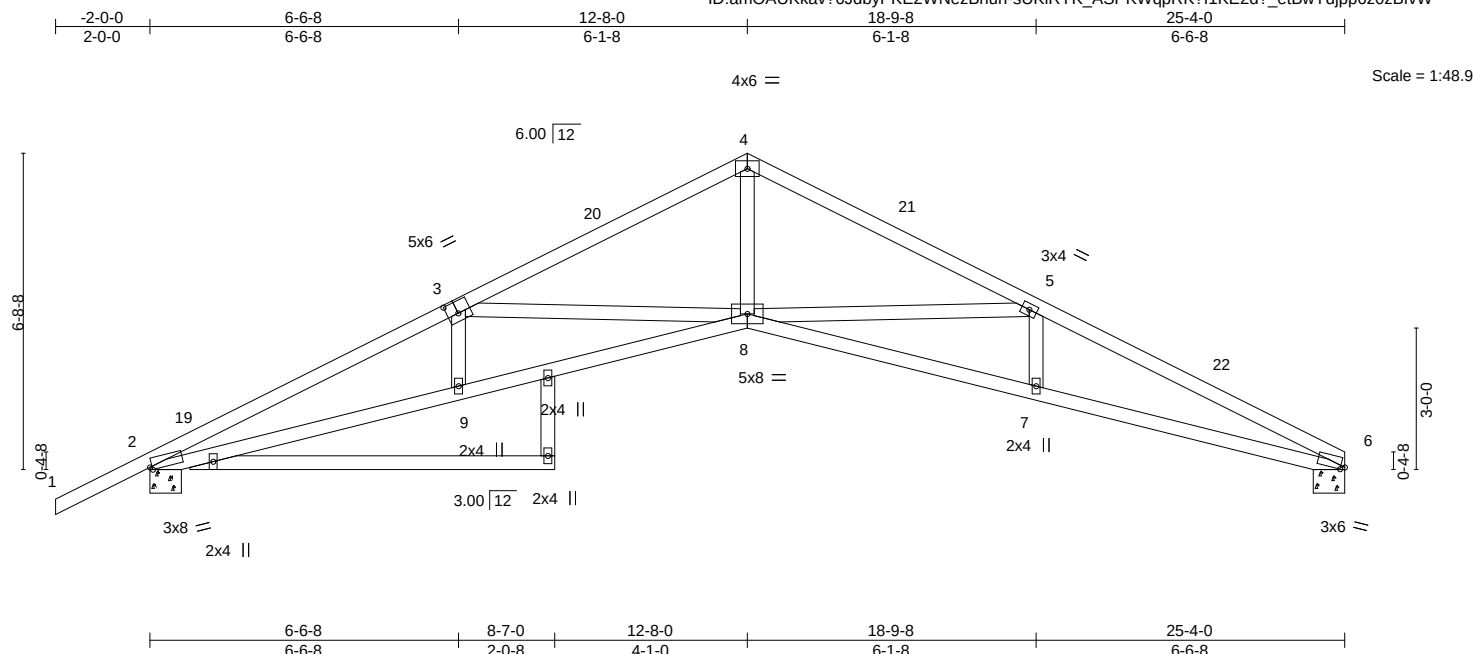


Plate Offsets (X,Y)--		[2:0-0-9,Edge], [3:0-2-12,0-3-0], [6:0-1-1,0-0-12]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.23 8-9 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.45 8-9 >678 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.28 6 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 126 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31 *Except*
10-11: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-8-0, 2=0-8-0
Max Horz 2=124(LC 16)
Max Uplift 6=-193(LC 13), 2=-238(LC 12)
Max Grav 6=933(LC 1), 2=1050(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2806/598, 3-4=-2068/431, 4-5=-2068/442, 5-6=-2846/613
BOT CHORD 2-9=-569/2507, 8-9=-571/2528, 7-8=-504/2565, 6-7=-501/2549
WEBS 3-8=-722/315, 4-8=-241/1451, 5-8=-758/345

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 12-8-0, Exterior(2R) 12-8-0 to 15-8-0, Interior(1) 15-8-0 to 25-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 6 and 238 lb uplift at joint 2.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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



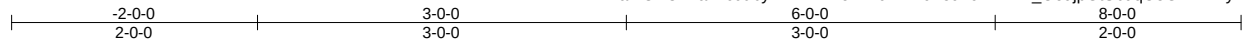
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - SORTO RES.	T24168217
2809728	T10	Common Girder	1	1	Job Reference (optional)	

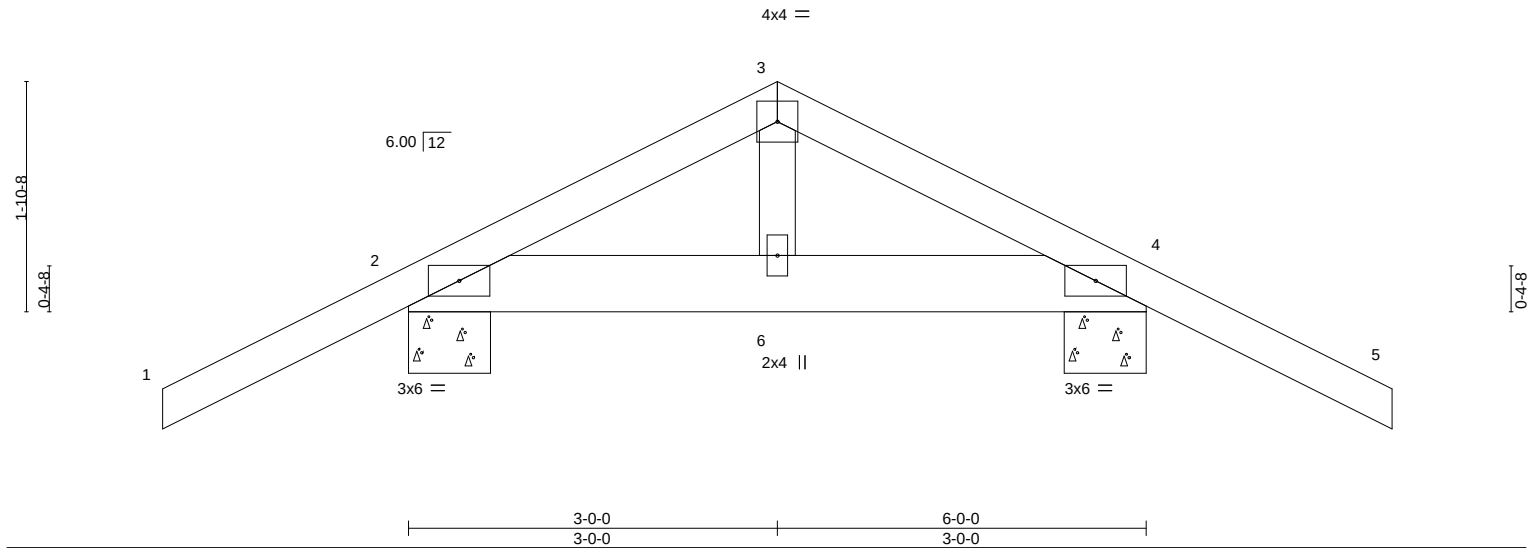
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s May 12 2021 MiTek Industries, Inc. Sat May 29 10:43:26 2021 Page 1

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Scale = 1:18.7



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 0.27	Vert(LL)	-0.00	6	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.01	6	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
								Weight: 33 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 2=0-8-0, 4=0-8-0
Max Horz 2=37(LC 8)
Max Uplift 2=-117(LC 8), 4=-117(LC 9)
Max Grav 2=324(LC 1), 4=324(LC 1)

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

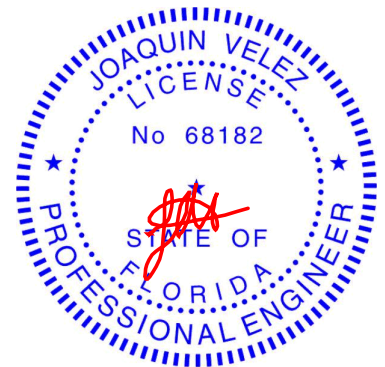
TOP CHORD 2-3=-262/87, 3-4=-262/87
BOT CHORD 2-6=-47/269, 4-6=-47/269

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2 and 117 lb uplift at joint 4.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 33 lb up at 3-0-0 on top chord, and 162 lb down and 120 lb up at 3-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 2-4=-20
Concentrated Loads (lb)
Vert: 6=11(F)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 1,2021

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

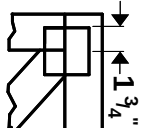
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



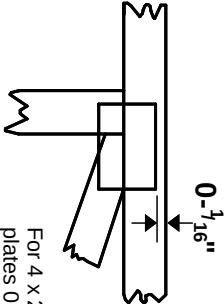
6904 Parke East Blvd.
Tampa, FL 36610

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- $\frac{3}{16}$ " from outside edge of truss.

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

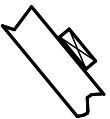
* Plate location details available in **MiTek 20120** software or upon request.

PLATE SIZE

4 X 4

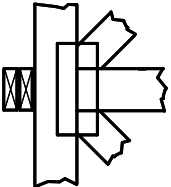
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



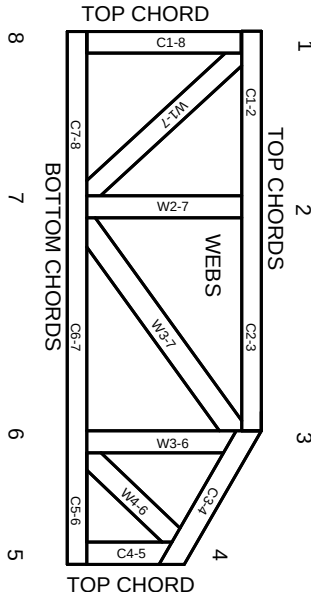
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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/TP1 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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.