



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

RE: 2719013 - IC CONST - SANTIAGO RES.

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

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Santiago Res. Model: Custom
Lot/Block: 9 Subdivision: Oak Haven
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 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: 55.0 psf

This package includes 39 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.

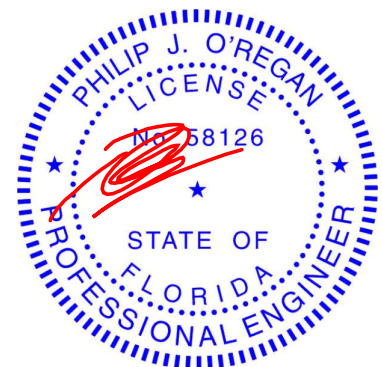
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T23909412	EJ01	5/12/21	23	T23909434	T11	5/12/21
2	T23909413	EJ02	5/12/21	24	T23909435	T12	5/12/21
3	T23909414	PB01	5/12/21	25	T23909436	T13	5/12/21
4	T23909415	PB01G	5/12/21	26	T23909437	T14	5/12/21
5	T23909416	PB02	5/12/21	27	T23909438	T15	5/12/21
6	T23909417	PB02G	5/12/21	28	T23909439	T16	5/12/21
7	T23909418	PBG01	5/12/21	29	T23909440	T17	5/12/21
8	T23909419	T01	5/12/21	30	T23909441	T17G	5/12/21
9	T23909420	T01G	5/12/21	31	T23909442	T18	5/12/21
10	T23909421	T02	5/12/21	32	T23909443	T19	5/12/21
11	T23909422	T03	5/12/21	33	T23909444	TF01	5/12/21
12	T23909423	T04	5/12/21	34	T23909445	TF01G	5/12/21
13	T23909424	T04G	5/12/21	35	T23909446	TF02	5/12/21
14	T23909425	T05	5/12/21	36	T23909447	TF03	5/12/21
15	T23909426	T06	5/12/21	37	T23909448	TF04	5/12/21
16	T23909427	T07	5/12/21	38	T23909449	TF05	5/12/21
17	T23909428	T07G	5/12/21	39	T23909450	TG01	5/12/21
18	T23909429	T08G	5/12/21				
19	T23909430	T09	5/12/21				
20	T23909431	T09G	5/12/21				
21	T23909432	T10	5/12/21				
22	T23909433	T10G	5/12/21				

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: O'Regan, 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 USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 12, 2021

Job 2719013	Truss EJ01	Truss Type Monopitch	Qty 10	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909412
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:44:50 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-cEZYBv4?FnFmd2AnHqpuRITTODGAOxtQ0PLKvzHsGx



Scale = 1:18.1

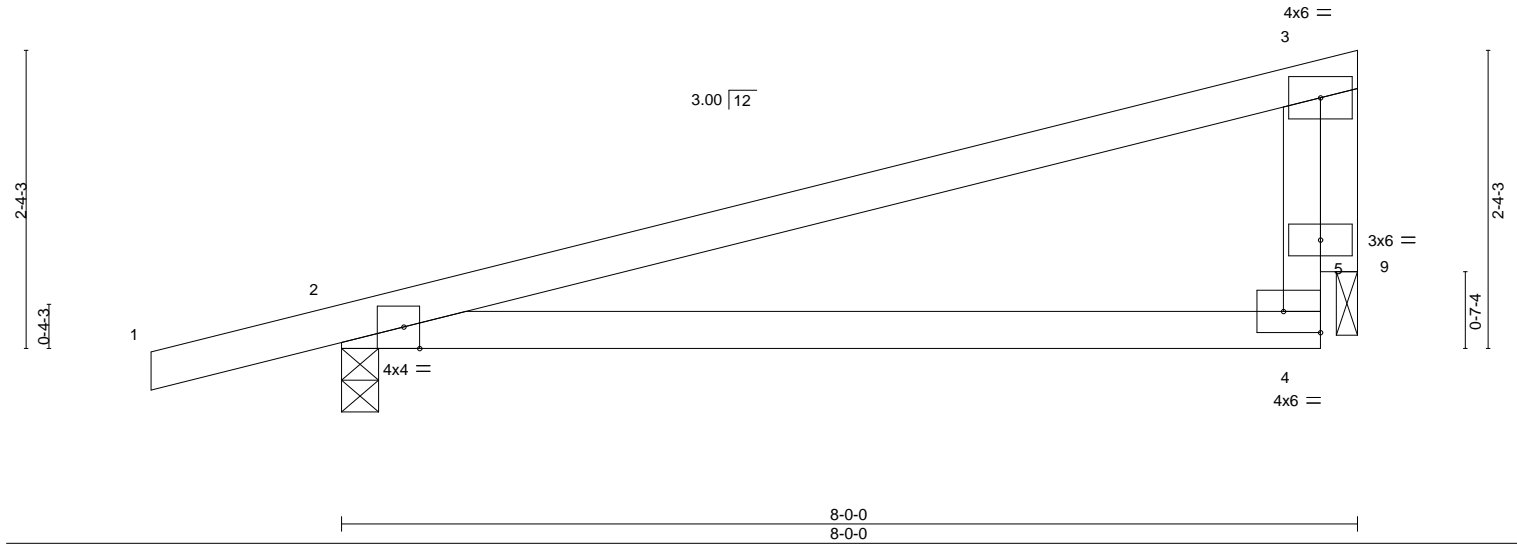


Plate Offsets (X,Y)--		[2:0-1-8,Edge], [4:Edge,0-2-0]													
LOADING	(psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.29	4-8	>329	240		MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	0.25	4-8	>385	180					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.01	2	n/a	n/a					
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MR											
												Weight: 31 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-8 oc bracing.

REACTIONS.

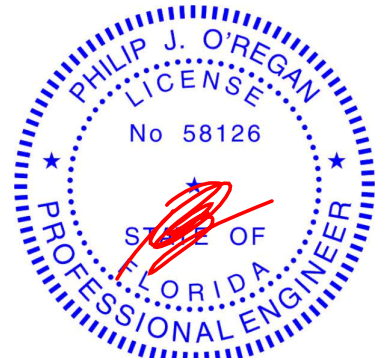
(size) 2=0-3-8, 9=0-2-0
Max Horz 2=82(LC 8)
Max Uplift 2=197(LC 8), 9=134(LC 8)
Max Grav 2=381(LC 1), 9=260(LC 1)

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

TOP CHORD 2-3=-222/252, 4-5=-255/151, 3-5=-255/151
BOT CHORD 2-4=-299/188
WEBS 3-9=-279/437

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-6-12 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
- 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) 9 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 at joint(s) 9.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2 and 134 lb uplift at joint 9.



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Date:

May 12,2021

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

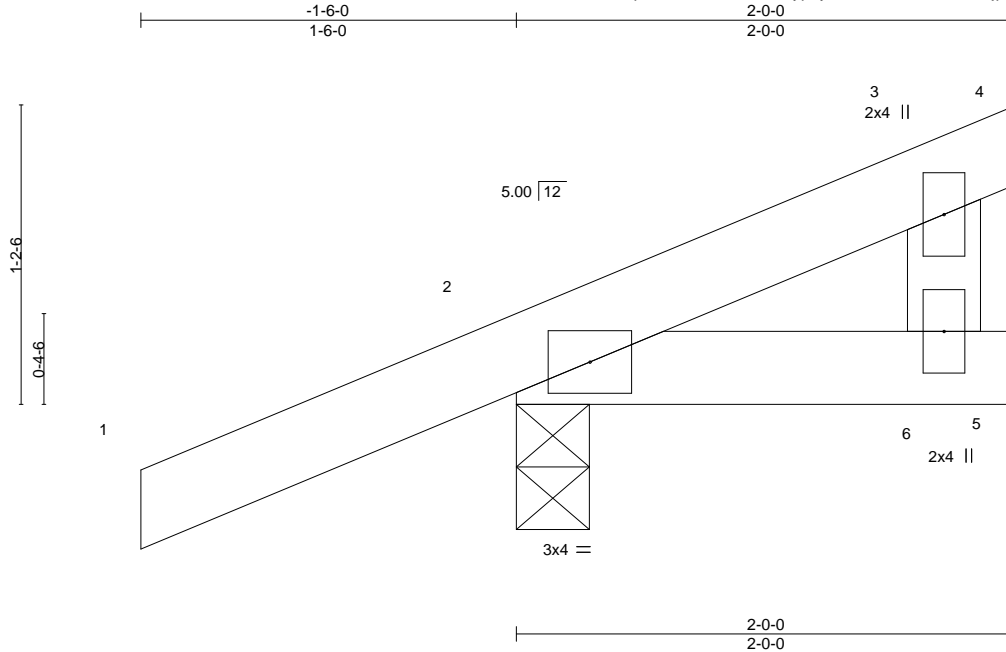
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST - SANTIAGO RES.	T23909413
2719013	EJ02	Jack-Open	7	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:44:55 2021 Page 1
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Scale = 1:9.2

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 0.13	Vert(LL)	-0.00	9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	9	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	2	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
								Weight: 10 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 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

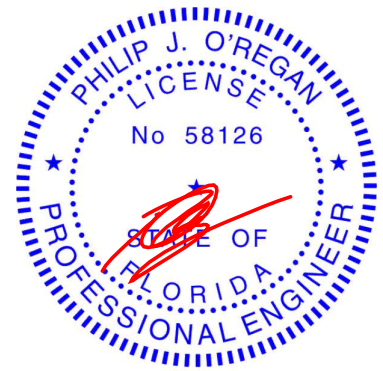
REACTIONS.

(size) 2=0-3-8, 5=Mechanical
Max Horz 2=46(LC 12)
Max Uplift 2=66(LC 8), 5=11(LC 12)
Max Grav 2=184(LC 1), 5=46(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; 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 66 lb uplift at joint 2 and 11 lb uplift at joint 5.



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Date:

May 12, 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 2719013	Truss PB01	Truss Type Piggyback	Qty 27	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909414
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:44:58 2021 Page 1
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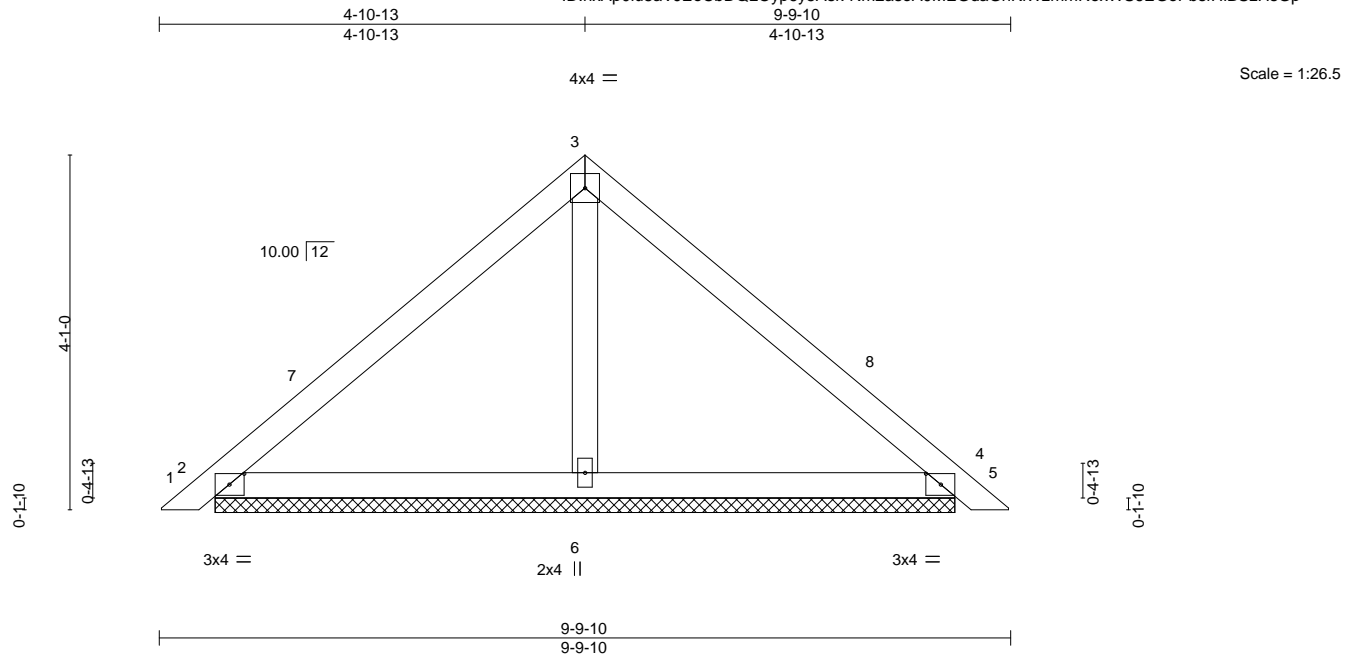


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

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 0.20	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 36 lb	FT = 20%

LUMBER-

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

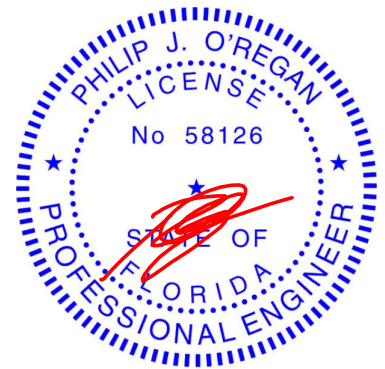
REACTIONS.

(size) 2=8-6-3, 4=8-6-3, 6=8-6-3
Max Horz 2=-86(LC 10)
Max Uplift 2=-47(LC 12), 4=-58(LC 13), 6=-39(LC 12)
Max Grav 2=187(LC 1), 4=187(LC 1), 6=299(LC 1)

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

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) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 4-10-13, Exterior(2R) 4-10-13 to 7-10-13, Interior(1) 7-10-13 to 9-6-11 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.
- Gable requires continuous bottom chord bearing.
- 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 47 lb uplift at joint 2, 58 lb uplift at joint 4 and 39 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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6904 Parke East Blvd. Tampa FL 33610
Date:

May 12,2021

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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 2719013	Truss PB01G	Truss Type GABLE	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909415
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:00 2021 Page 1
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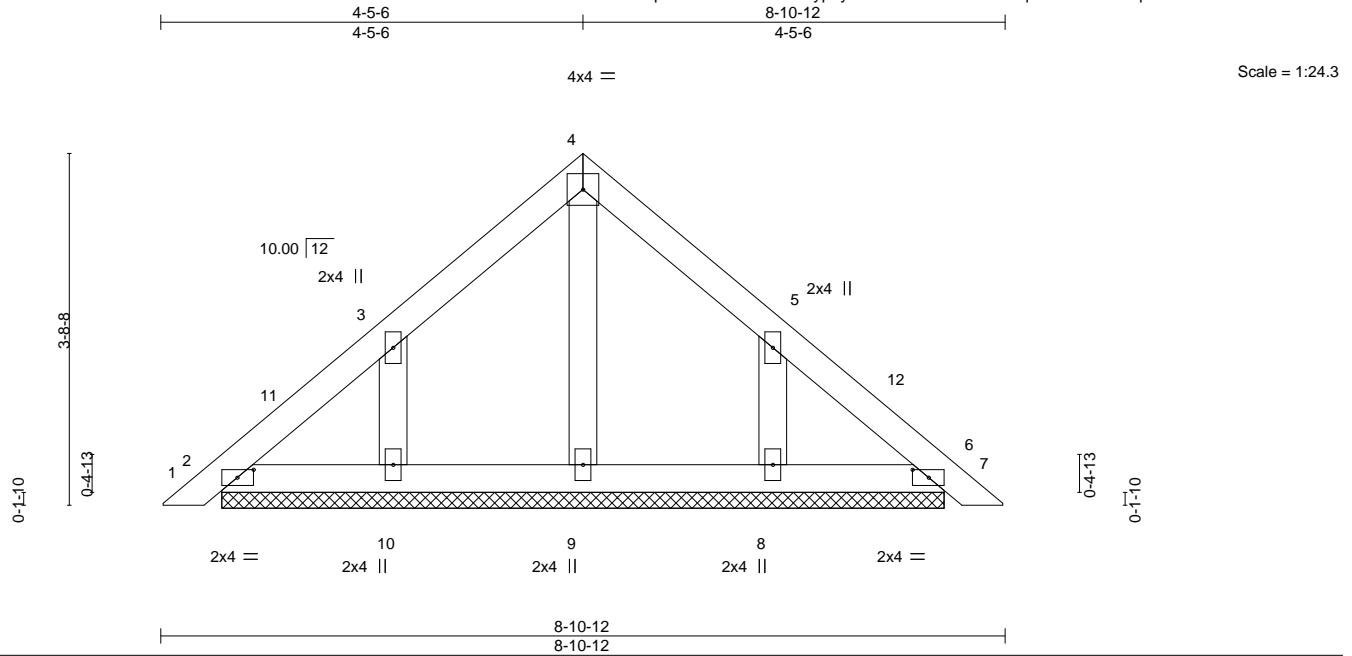


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [6:0-2-1,0-1-0]

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 0.05	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 37 lb	FT = 20%

LUMBER-

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

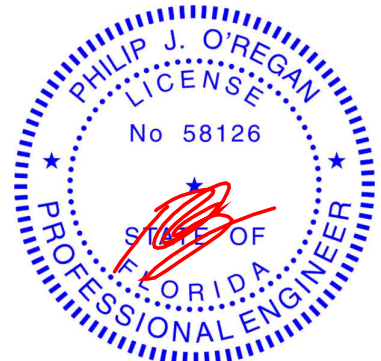
REACTIONS.

All bearings 7-7-5.
(lb) - Max Horz 2=77(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

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) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 4-5-6, Exterior(2R) 4-5-6 to 7-5-6, Interior(1) 7-5-6 to 8-7-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 100 lb uplift at joint(s) 2, 6, 10, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

May 12, 2021

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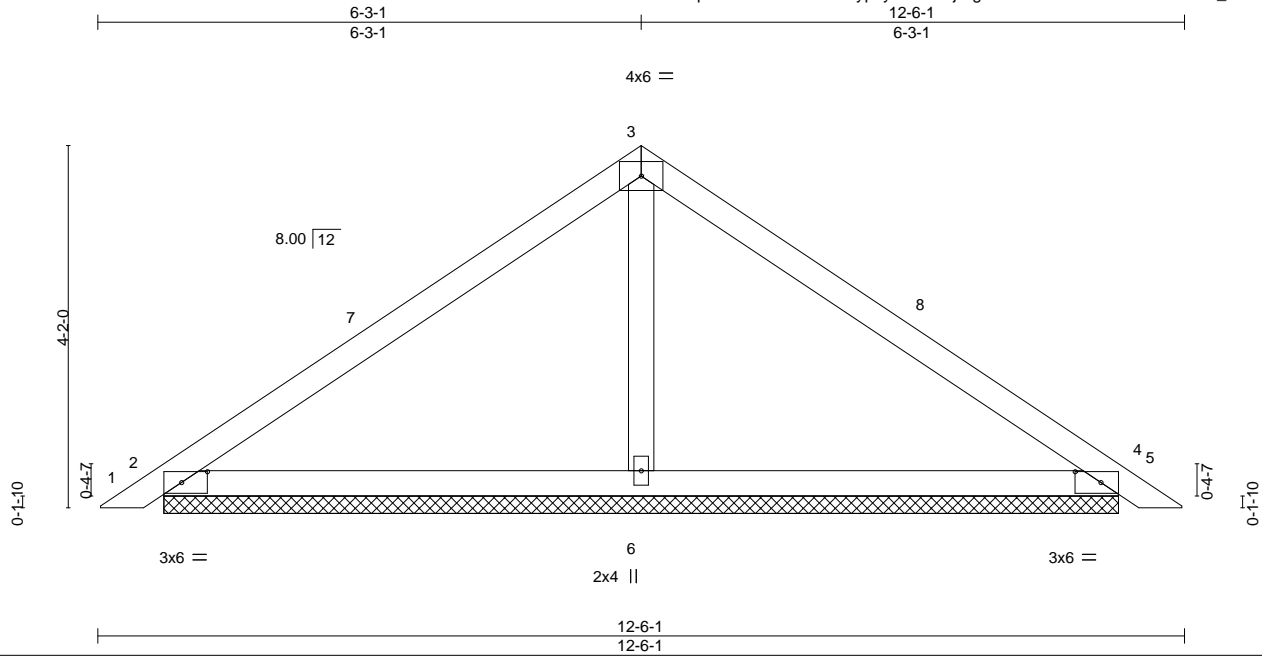
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 33610

Job 2719013	Truss PB02	Truss Type Piggyback	Qty 21	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909416
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:01 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-nLjiUgDvf9eCRkVvReWTN3QQKf59T_11YdVQonzHsGm



Scale = 1:26.5

Plate Offsets (X,Y)--		[2:0-3-9,0-1-8], [4:0-3-9,0-1-8]								
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 0.36		Vert(LL) 0.01 5	n/r	120	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.29		Vert(CT) 0.02 5	n/r	120		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.07		Horz(CT) 0.00 4	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-S					Weight: 44 lb	FT = 20%

LUMBER-

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

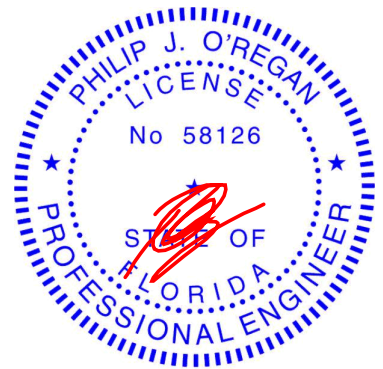
REACTIONS.

(size) 2=10-11-14, 4=10-11-14, 6=10-11-14
Max Horz 2=-88(LC 10)
Max Uplift 2=-63(LC 12), 4=-74(LC 13), 6=-56(LC 12)
Max Grav 2=225(LC 1), 4=225(LC 1), 6=414(LC 1)

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

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) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 6-3-1, Exterior(2R) 6-3-1 to 9-3-1, Interior(1) 9-3-1 to 12-2-12 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.
- Gable requires continuous bottom chord bearing.
- 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 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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6904 Parke East Blvd. Tampa FL 33610
Date:

May 12,2021

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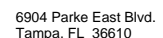
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:03 2021 Page 1
ID:nxAp0lu8aVJE0CbDQLOyp6y5Ask-kkrTvME9Bnuwh2fHY3YxTUVq3TrBxvlK0x_WsfzHsGk



Job 2719013	Truss PBG01	Truss Type GABLE	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909418
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:04 2021 Page 1
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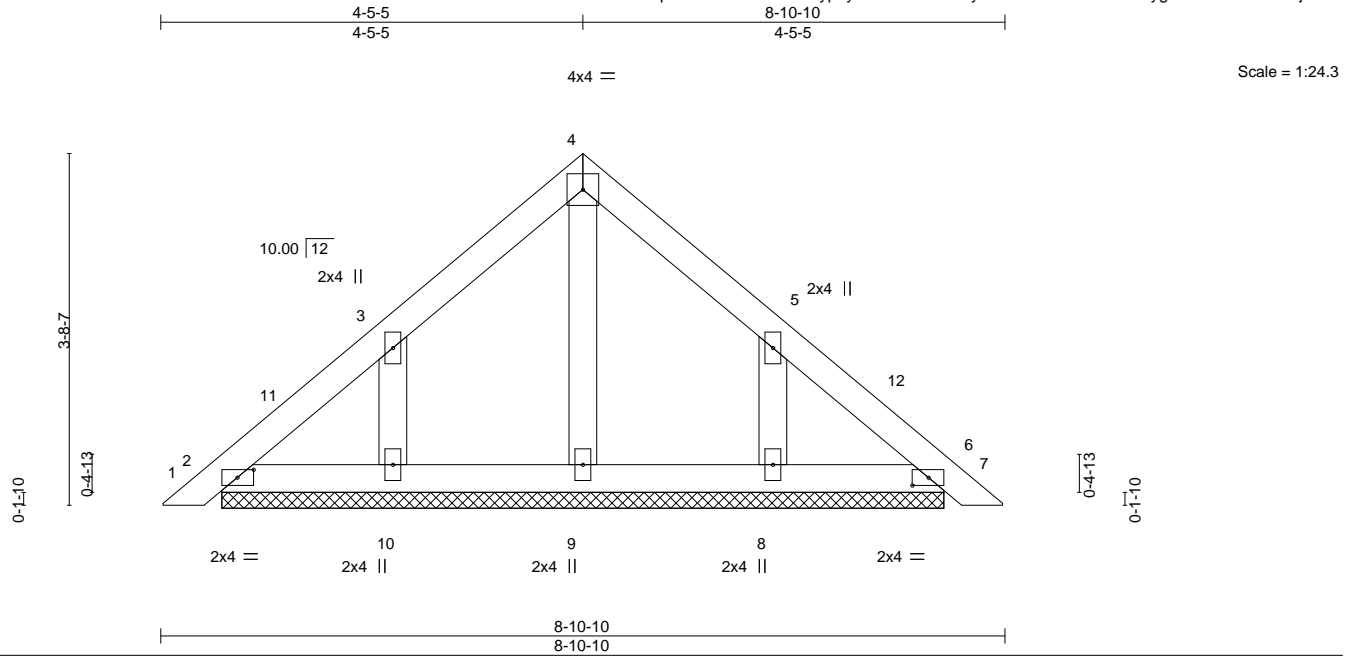


Plate Offsets (X,Y)--		[2:0-2-1,0-1-0], [6:0-2-1,0-1-0]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.05		Vert(LL) 0.00 6 n/r 120		MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.03		Vert(CT) 0.00 6 n/r 120			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.05		Horz(CT) 0.00 6 n/a n/a			
BCDL 10.0		Code FBC2020/TPI2014		Matrix-S				Weight: 37 lb	FT = 20%

LUMBER-

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

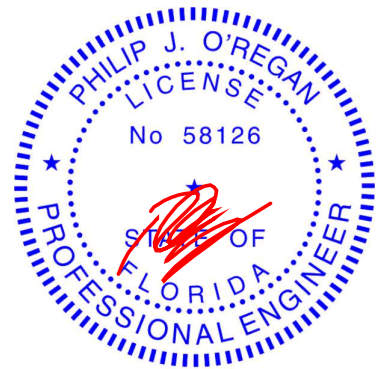
REACTIONS.

All bearings 7-7-3.
(lb) - Max Horz 2=77(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

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) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 4-5-5, Exterior(2R) 4-5-5 to 7-5-5, Interior(1) 7-5-5 to 8-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- 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 100 lb uplift at joint(s) 2, 6, 10, 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



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Tampa, FL 36610

Job 2719013	Truss T01	Truss Type Attic	Qty 6	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909419
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:07 2021 Page 1
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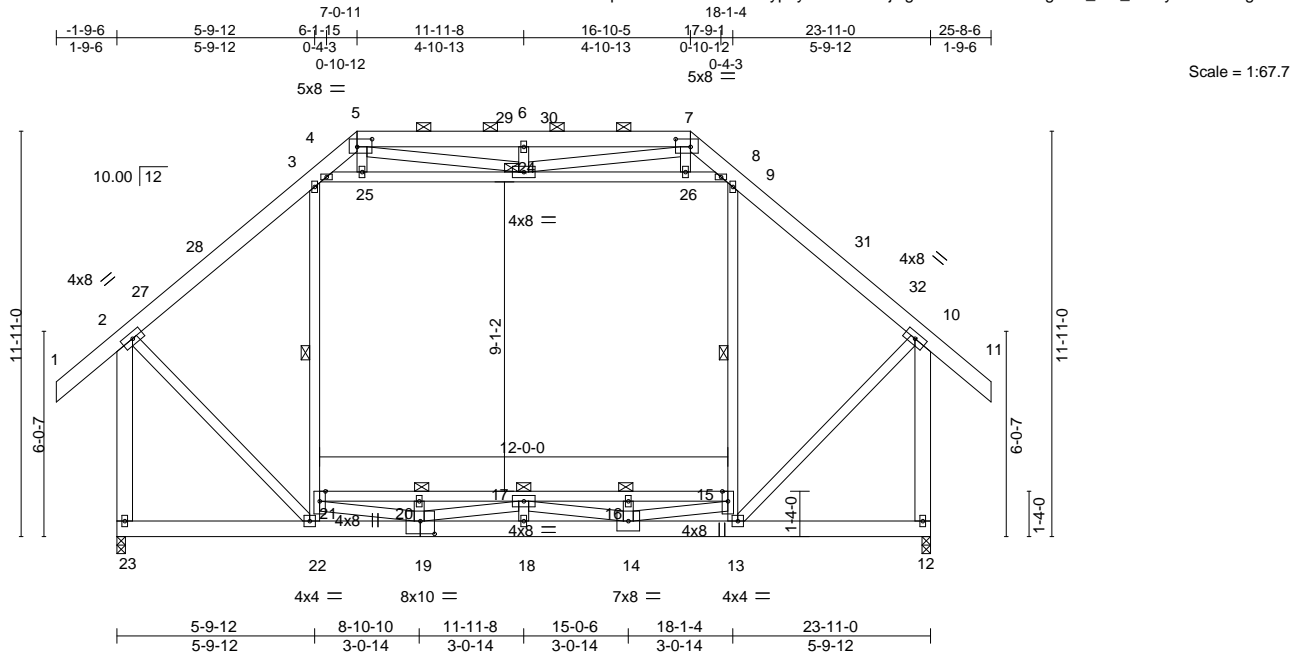


Plate Offsets (X,Y)-- [5:0-5-4,0-2-12], [7:0-5-4,0-2-12], [19:0-5-0,0-4-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.14	22	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.19	17	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.02	12	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.09	15-21	1677	360	Weight: 283 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
15-21: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-23,10-12: 2x6 SP No.2

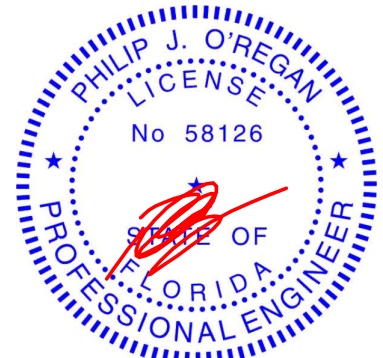
REACTIONS. (size) 23=0-3-0, 12=0-3-0
Max Horz 23=347(LC 11)
Max Grav 23=1595(LC 2), 12=1594(LC 2)

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

TOP CHORD 2-3=-1044/16, 3-4=-784/110, 4-5=-617/231, 5-6=-1076/377, 6-7=-1076/377,
7-8=-617/230, 8-9=-783/111, 9-10=-1044/16, 2-23=-1580/37, 10-12=-1580/37
BOT CHORD 22-23=-337/306, 19-22=-109/883, 18-19=0/2971, 14-18=0/2971, 13-14=0/778,
20-21=-1599/0, 17-20=-1586/0, 16-17=-1583/0, 15-16=-1583/0
WEBS 21-22=-506/0, 3-21=-149/363, 13-15=-506/0, 9-15=-149/363, 4-25=-588/131,
24-25=-575/133, 24-26=-575/133, 8-26=-588/131, 2-22=-28/1119, 10-13=-29/1120,
5-24=-443/711, 7-24=-443/711, 19-20=-397/0, 19-21=0/1668, 17-19=-812/93,
14-16=-397/0, 14-17=-796/70, 14-15=0/1653

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) -1-9-6 to 1-2-10, Interior(1) 1-2-10 to 7-0-11, Exterior(2R) 7-0-11 to 11-3-10, Interior(1) 11-3-10 to 16-10-5, Exterior(2R) 16-10-5 to 21-1-3, Interior(1) 21-1-3 to 25-8-6 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-25, 24-25, 24-26, 8-26; Wall dead load (5.0psf) on member(s).3-21, 9-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-21, 17-20, 16-17, 15-16
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



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Date:

May 12,2021

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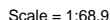
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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8.430 s Mar 22 2021 MiTek Industries, Inc. Wed May 12 15:27:40 2021 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* 1-3,11-13: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD	2x6 SP No.2 *Except* 17-25: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 5-5-0 oc bracing: 17-25
WEBS	2x4 SP No.3 *Except* 2-27,12-14: 2x6 SP No.2	WEBS	1 Row at midpt 4-25, 10-17
OTHERS	2x4 SP No.3	JOINTS	1 Brace at Jlt(s): 29

REACTIONS. All bearings 0-5-8 except (jt=length) 24=0-3-8, 16=0-3-8.
 (lb) - Max Horz 27=-341(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 24, 16 except 27=-132(LC 4),
 14=-106(LC 5)
 Max Grav All reactions 250 lb or less at joint(s) except 27=679(LC 1), 14=679(LC 1),
 24=1176(LC 16), 16=1155(LC 17)

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

TOP CHORD 2-3=-340/97, 4-5=-408/138, 5-6=-542/145, 6-7=-1029/317, 7-8=-1029/317, 8-9=-542/143,
9-10=-408/136, 11-12=-340/78, 2-27=-614/156, 12-14=-614/130

BOT CHORD 26-27=-314/288, 24-26=-145/300, 24-43=-145/300, 22-43=-145/300, 22-44=0/1915,
21-44=0/1915, 21-45=0/1915, 19-45=0/1915, 19-46=-121/289, 16-46=-121/289,
15-16=-121/289, 25-47=-1014/0, 47-48=-1014/0, 23-48=-1014/0, 23-49=-1001/0,
24-49=-1001/0, 20-50=-998/0, 18-50=-998/0, 18-51=-998/0, 51-52=-998/0, 17-52=-998/0

WEBS 25-26=-810/5, 4-25=-483/160, 15-17=-808/6, 10-17=-484/160, 2-26=-176/281,
12-15=-156/281, 6-29=-203/643, 8-29=-207/643, 20-21=-6/272, 22-23=-414/0,
22-25=-16/981, 20-22=-919/0, 18-19=-414/0, 19-20=-921/0, 17-19=0/965

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., GC_{pi}=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; 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" 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-30, 29-30, 29-31, 9-31; Wall dead load (5.0psf) on member(s) 4-25, 10-17

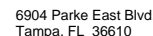


May 12, 2021

continued on page 2

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Job	Truss	Truss Type	Qty	Ply	IC CONST - SANTIAGO RES.	T23909420
2719013	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed May 12 15:27:41 2021 Page 2
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NOTES-

- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-25, 20-23, 18-20, 17-18
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 16 except (jt=lb) 27=132, 14=106.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 21 lb up at 6-6-4, 26 lb down and 21 lb up at 8-6-4, 26 lb down and 21 lb up at 10-6-4, 26 lb down and 21 lb up at 11-11-8, 26 lb down and 21 lb up at 13-4-12, and 26 lb down and 21 lb up at 15-4-12, and 26 lb down and 21 lb up at 17-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.
- 16) 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: 1-2=-54, 2-4=-54, 4-5=-64, 5-6=-54, 6-8=-54, 8-9=-54, 9-10=-64, 10-12=-54, 12-13=-54, 14-27=-20, 17-25=-40, 5-9=-10

Drag: 4-25=-10, 10-17=-10

Concentrated Loads (lb)

Vert: 21=-13(F) 24=-13(F) 16=-13(F) 43=-13(F) 44=-13(F) 45=-13(F) 46=-13(F)

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T03	Truss Type Attic Girder	Qty 1	Ply 3	IC CONST - SANTIAGO RES. T23909422
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Builders FirstSource, Lake City, FL 32055

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed May 12 15:30:19 2021 Page 1
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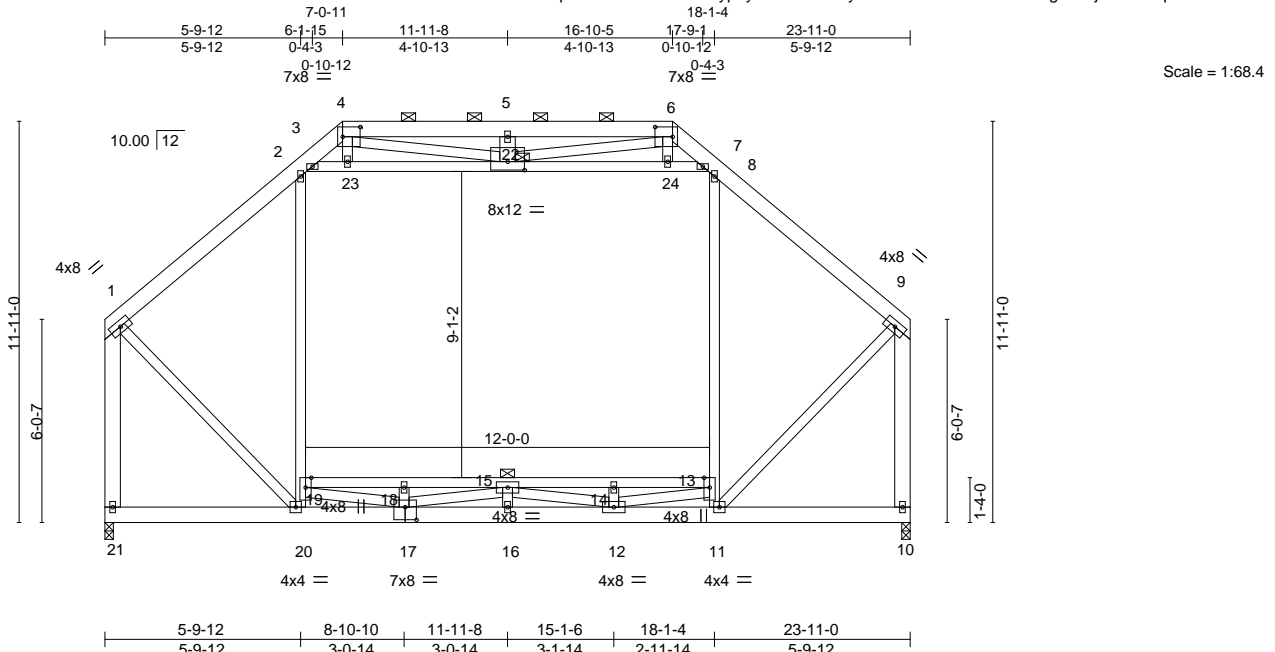


Plate Offsets (X,Y)--		[4:0-6-4,0-3-8], [6:0-6-4,0-3-8], [17:0-4-0,0-4-8], [22:0-6-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 1.00
TCDL 7.0	Lumber DOL	1.25	BC 0.35
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.04 14-15 >999 240
			Vert(CT) -0.07 14-15 >999 180
			Horz(CT) 0.01 10 n/a n/a
			Attic -0.03 13-19 4851 360
			PLATES GRIP
			MT20 244/190
			Weight: 817 lb FT = 20%

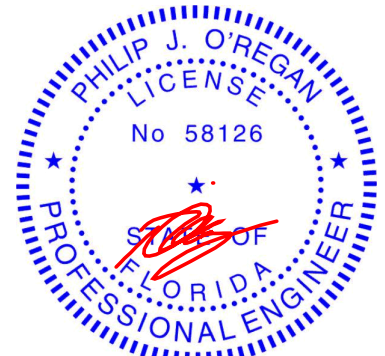
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-13 max.): 4-6.
BOT CHORD 2x6 SP No.2 *Except* 13-19: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 6-0-0 oc bracing: 13-19
WEBS 2x4 SP No.3 *Except* 3-7,4-22,6-22: 2x4 SP No.2, 1-21,9-10,5-22: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 22

REACTIONS. (lb/size) 21=3718/0-3-0, 10=3718/0-3-0
Max Horz 21=263(LC 6)
Max Uplift 21=661(LC 8), 10=664(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2590/519, 2-3=-3341/868, 3-4=-4691/1426, 4-5=-14428/4341, 5-6=-14428/4341, 6-7=-4691/1417, 7-8=-3340/868, 8-9=-2590/487, 1-21=-3690/656, 9-10=-3690/658
BOT CHORD 17-20=-514/2230, 16-17=-10/4000, 12-16=-10/4000, 11-12=-392/2230, 18-19=-1670/0, 15-18=-1657/0, 14-15=-1630/0, 13-14=-1630/0
WEBS 19-20=-1875/454, 2-19=-1593/684, 11-13=-1876/448, 8-13=-1594/650, 3-23=-948/1580, 22-23=-952/1637, 22-24=-993/1637, 7-24=-989/1580, 1-20=-605/2854, 9-11=-585/2854, 5-22=-3918/1214, 4-23=-114/482, 6-24=-114/482, 4-22=-3503/11114, 6-22=-3502/11114, 17-18=-399/0, 12-14=-401/0, 17-19=0/1640, 15-17=-788/39, 12-15=-820/30, 12-13=0/1605

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 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, 2x6 - 2 rows staggered at 0-9-0 oc.
- 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.
- 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; end vertical left 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-23, 22-23, 22-24, 7-24; Wall dead load (5.0psf) on member(s).2-19, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 15-18, 14-15, 13-14



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Date:

May 12,2021

Continued on page 2

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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 **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	Truss	Truss Type	Qty	Ply	IC CONST - SANTIAGO RES.	T23909422
2719013	T03	Attic Girder	1	3	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed May 12 15:30:19 2021 Page 2
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-2kQB5yHVXe3ww2ae19uSbQecvgnsmjzDaW3TpzHDAo

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=661, 10=664.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4909 lb down and 1483 lb up at 11-11-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-64, 3-4=-54, 4-6=-54, 6-7=-54, 7-8=-64, 8-9=-54, 10-21=-20, 13-19=-40, 3-7=-10

Drag: 2-19=-10, 8-13=-10

Concentrated Loads (lb)

Vert: 5=-4909

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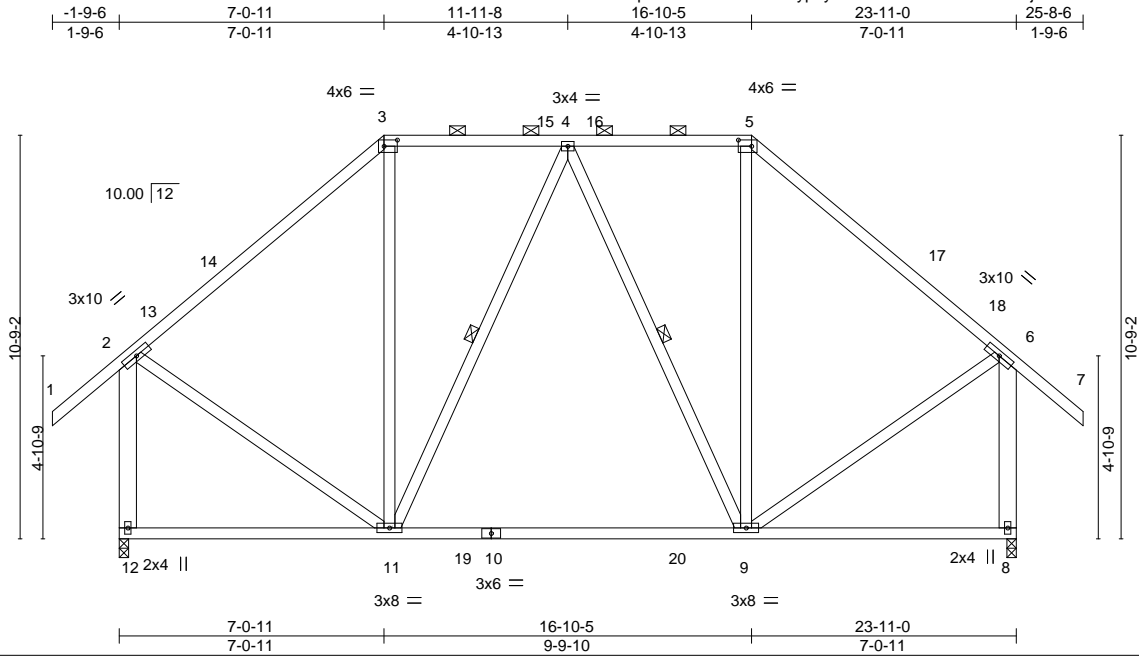
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T04	Truss Type Piggyback Base	Qty 4	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909423
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:23 2021 Page 1
ID:nxAp0lu8aVJEoCbDQL0yp6y5Ask-8a206BUitWp446B7jGvdGiK8iXSkdv4Hc2qaaVzHsGQ



Scale = 1:61.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	Vert(LL) -0.33	9-11	>859	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(CT) -0.48	9-11	>591	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 194 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-12,6-8: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11, 4-9

REACTIONS.

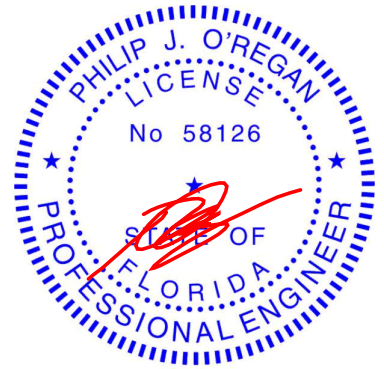
(size) 12=0-3-0, 8=0-3-0
Max Horz 12=316(LC 11)
Max Uplift 12=-217(LC 12), 8=-217(LC 13)
Max Grav 12=1058(LC 2), 8=1058(LC 2)

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

TOP CHORD 2-3=-743/195, 3-4=-488/217, 4-5=-488/217, 5-6=-743/195, 2-12=-973/251, 6-8=-973/251
BOT CHORD 11-12=-288/288, 9-11=-193/555
WEBS 2-11=-125/551, 6-9=-126/551

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) -1-9-6 to 1-2-10, Interior(1) 1-2-10 to 7-0-11, Exterior(2R) 7-0-11 to 11-3-10, Interior(1) 11-3-10 to 16-10-5, Exterior(2R) 16-10-5 to 21-1-3, Interior(1) 21-1-3 to 25-8-6 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=217, 8=217.
- 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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May 12,2021

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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 2719013	Truss T04G	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909424
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:28 2021 Page 1
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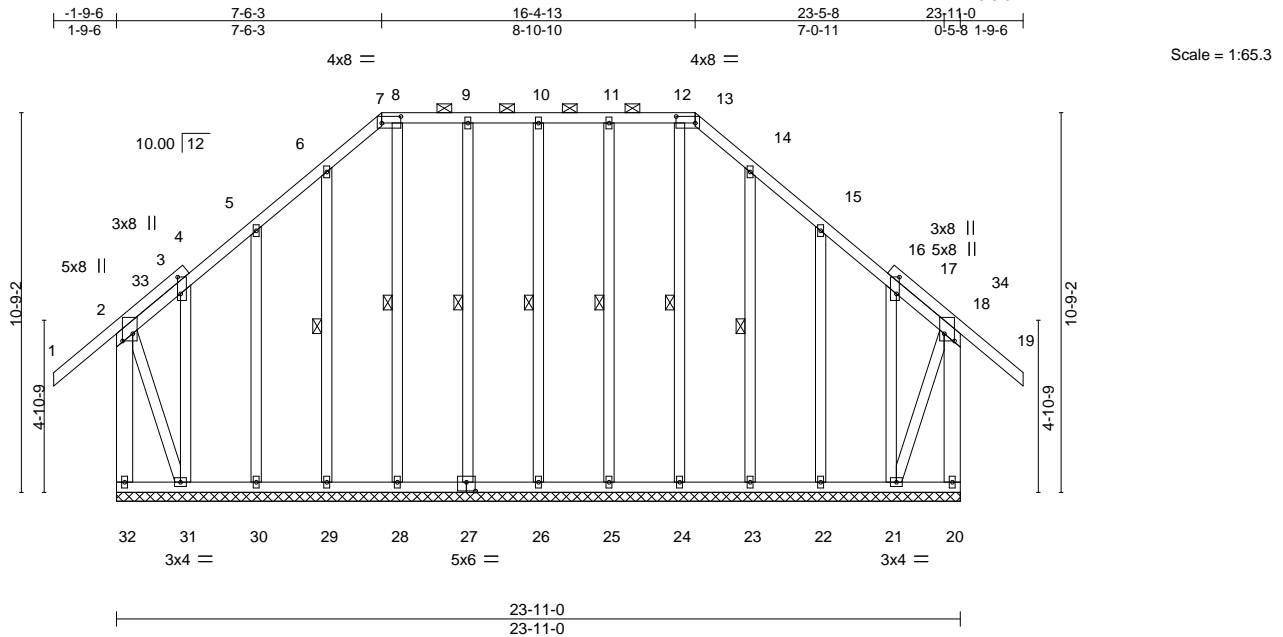


Plate Offsets (X,Y)-- [2:0-2-8,0-3-8], [3:0-5-11,0-1-0], [7:0-6-8,0-2-4], [13:0-6-8,0-2-4], [17:0-5-11,0-1-0], [18:0-2-8,0-3-8], [27:0-3-0,0-3-0]

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 0.26	Vert(LL)	-0.02	19	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.03	19	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	-0.01	20	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 267 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-31,18-21: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-13.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-26, 9-27, 8-28, 6-29, 11-25, 12-24, 14-23

REACTIONS.

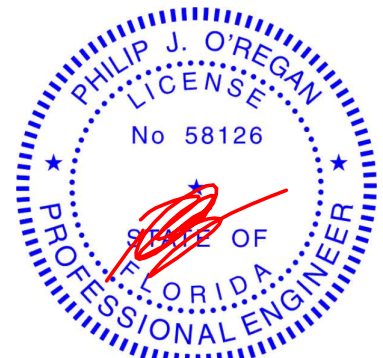
All bearings 23-11-0.
(lb) - Max Horz 32=310(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 26, 27, 28, 29, 30, 25, 23, 22 except 32=317(LC 8),
20=234(LC 9), 31=376(LC 9), 21=312(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 26, 27, 28, 29, 30, 25, 24, 23, 22 except 32=403(LC 20),
20=335(LC 19), 31=442(LC 10), 21=373(LC 11)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-32=-382/311, 18-20=-316/229
BOT CHORD 31-32=-286/253
WEBS 2-31=-381/377, 18-21=-309/310

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 Corner(3E) 1-9-6 to 1-2-10, Exterior(2N) 1-2-10 to 7-6-3, Corner(3R) 7-6-3 to 10-6-3, Exterior(2N) 10-6-3 to 16-4-13, Corner(3R) 16-4-13 to 19-4-13, Exterior(2N) 19-4-13 to 25-8-6 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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 100 lb uplift at joint(s) 26, 27, 28, 29, 30, 25, 23, 22 except (jt=lb) 32=317, 20=234, 31=376, 21=312.
- 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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May 12,2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T06	Truss Type Attic	Qty 6	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909426
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:31 2021 Page 1
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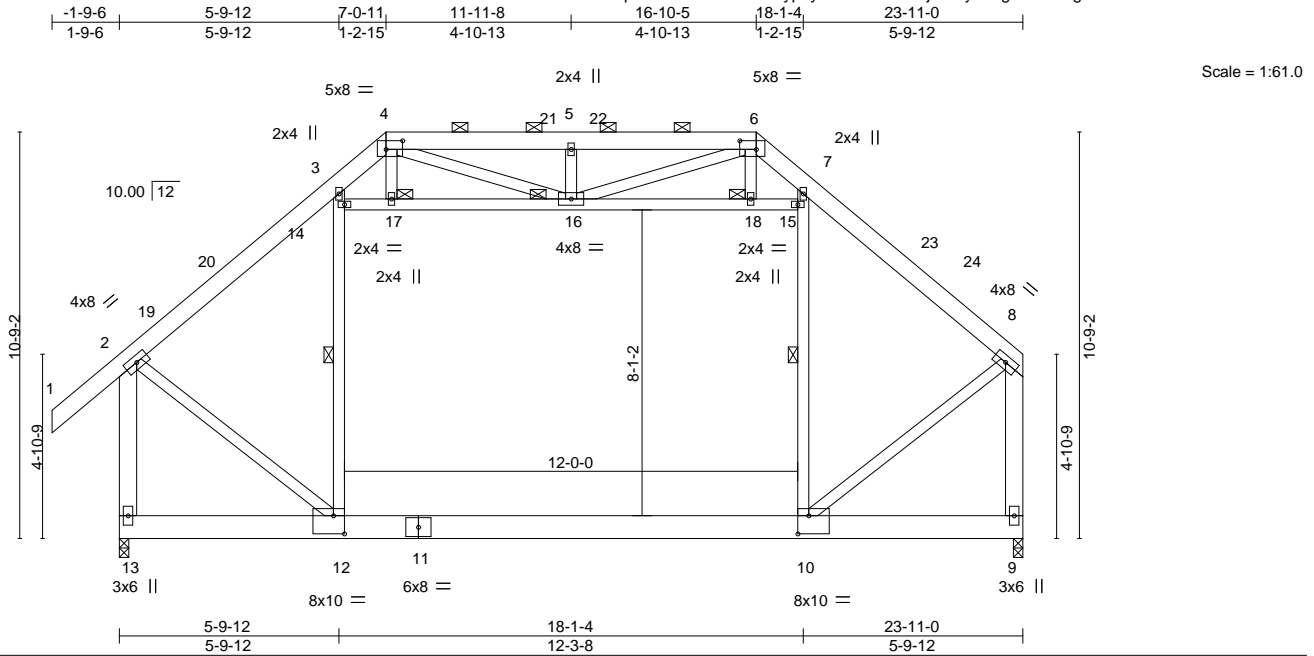


Plate Offsets (X,Y)-- [4:0-5-4,0-2-12], [6:0-5-4,0-2-12], [10:0-3-8,0-5-12], [12:0-3-8,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL) -0.21	10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT) -0.31	10-12	>895	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.18	10-12	833	360	Weight: 249 lb	FT = 20%

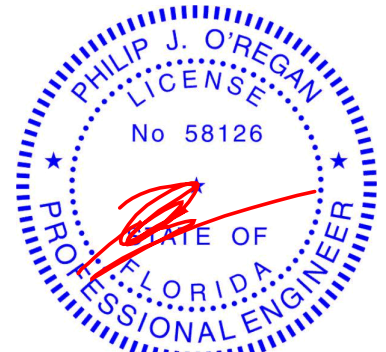
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 12-14, 10-15
2-13,8-9: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 16, 17, 18

REACTIONS. (size) 13=0-3-0, 9=0-3-0
Max Horz 13=-246(LC 10)
Max Uplift 13=-10(LC 12)
Max Grav 13=1481(LC 2), 9=1385(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1184/15, 3-4=-772/110, 4-5=-905/206, 5-6=-905/206, 6-7=-775/113, 7-8=-1175/4,
2-13=-1600/17, 8-9=-1494/0
BOT CHORD 10-12=0/836
WEBS 12-14=-112/495, 3-14=-59/438, 10-15=-125/487, 7-15=-75/429, 2-12=0/1072,
8-10=0/1049, 4-16=-276/437, 6-16=-280/441

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) -1-9-6 to 1-2-10, Interior(1) 1-2-10 to 7-0-11, Exterior(2R) 7-0-11 to 11-3-10, Interior(1) 11-3-10 to 16-10-5, Exterior(2R) 16-10-5 to 21-1-3, Interior(1) 21-1-3 to 23-8-4 zone; end vertical left exposed;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.
- Ceiling dead load (5.0 psf) on member(s). 14-17, 16-17, 16-18, 15-18; Wall dead load (5.0psf) on member(s).12-14, 10-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



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May 12,2021

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

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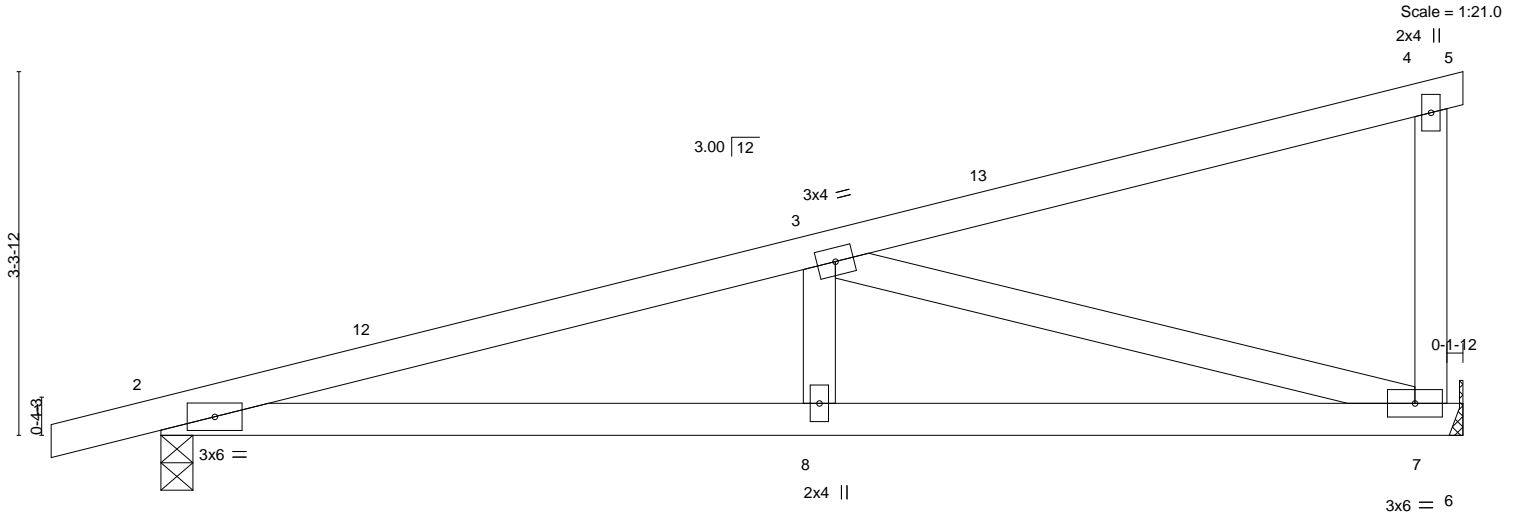


6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T07	Truss Type Jack-Closed	Qty 5	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909427
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:32 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-NJ5Q?GbLMhYpfVNsIfak8cCj29ffEulbgYWZOUzHsGH

-1-0-0 6-0-0 11-10-6
1-0-0 6-0-0 5-10-6



6-0-0 6-0-0 11-10-6
6-0-0 5-10-6

LOADING (psf)	SPACING-	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.32	Vert(LL) -0.05	8-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.40	Vert(CT) -0.10	8-11	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT) 0.02	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 51 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 5-7-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-12 oc bracing.

REACTIONS.

(size) 2=0-3-8, 7=Mechanical
Max Horz 2=113(LC 8)
Max Uplift 2=141(LC 8), 7=132(LC 8)
Max Grav 2=484(LC 1), 7=436(LC 1)

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

TOP CHORD 2-3=-975/282
BOT CHORD 2-8=-369/929, 7-8=-369/929
WEBS 3-7=-924/358

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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-10-6 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 100 lb uplift at joint(s) except (jt=lb) 2=141, 7=132.



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MiTek USA, Inc. FL Cert 6634
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Date:

May 12, 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

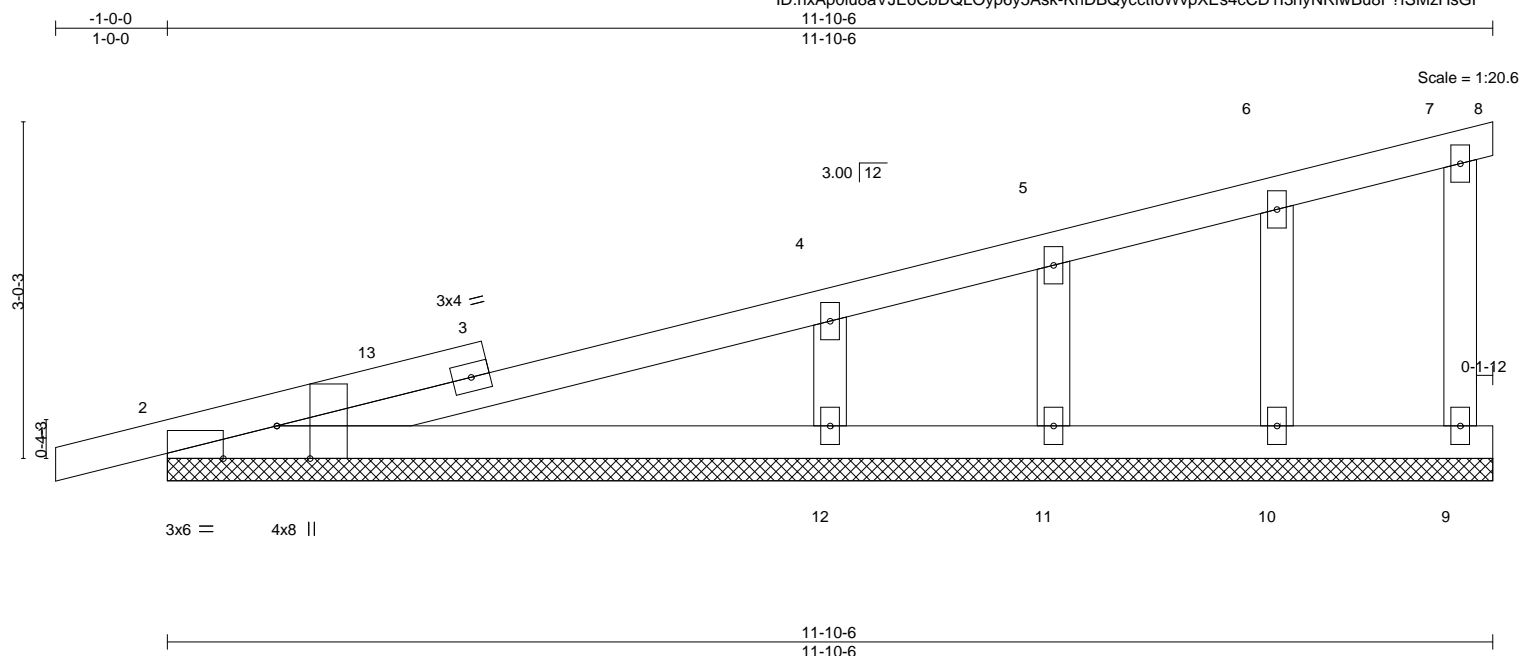


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [2:0-5-12,Edge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.00	1	n/r	120	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	0.01	1	n/r	120	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.01	8	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 50 lb
											FT = 20%

LUMBER-

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

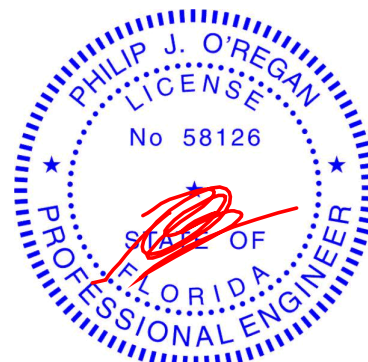
BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 11-10-6.
(lb) - Max Horz 2=103(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 9, 11, 10 except 12=117(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 9, 11, 10 except 12=447(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-12=-314/160

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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-10-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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) 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 9, 11, 10 except (jt=lb) 12=117.



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Date:

May 12, 2021

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



6904 Parke East Blvd
Tampa, FL 36610

Job 2719013	Truss T08G	Truss Type GABLE	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909429
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:35 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-ounZldEecwNWY6RQn7RmEqGUMj3RNK2NvkD?ozHsGE

-1-0-0
1-0-0

4-6-0
4-6-0

Scale = 1:10.4

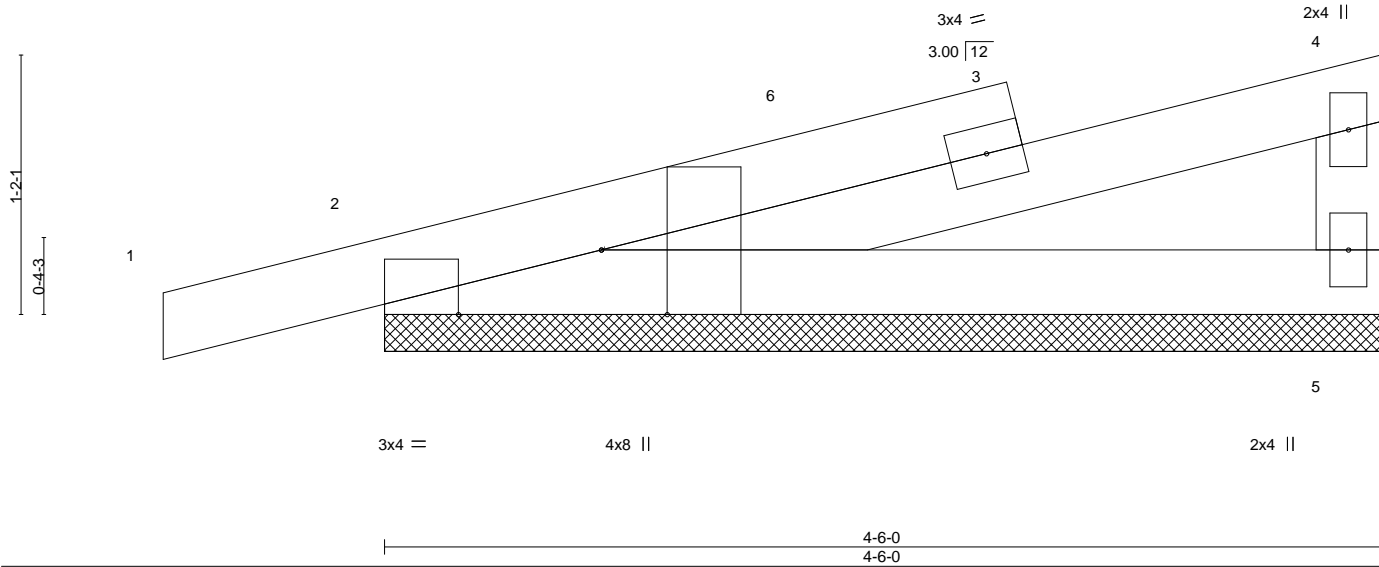


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [2:0-7-12,Edge]	
LOADING (psf)		SPACING-	2-0-0
TCLL 20.0		Plate Grip DOL	1.25
TCDL 7.0		Lumber DOL	1.25
BCLL 0.0 *		Rep Stress Incr	YES
BCDL 10.0		Code	FBC2020/TPI2014
		CSI.	
		TC 0.25	
		BC 0.23	
		WB 0.00	
		Matrix-P	
		DEFL.	
		Vert(LL)	-0.00 1 n/r 120
		Vert(CT)	0.00 1 n/r 120
		Horz(CT)	0.00 n/a n/a
		PLATES	MT20
		GRIP	244/190
		Weight: 19 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 4-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

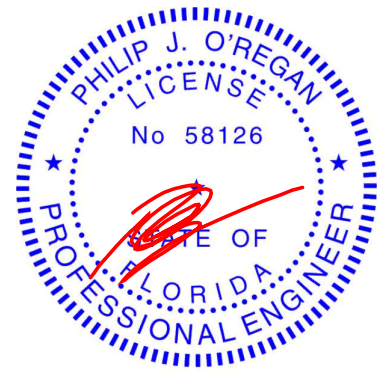
REACTIONS.

(size) 2=4-6-0, 5=4-6-0
Max Horz 2=38(LC 8)
Max Uplift 2=-83(LC 8), 5=-44(LC 12)
Max Grav 2=221(LC 1), 5=155(LC 1)

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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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) Gable studs spaced at 2-0-0 oc.
- 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



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6904 Parke East Blvd. Tampa FL 33610
Date:

May 12, 2021

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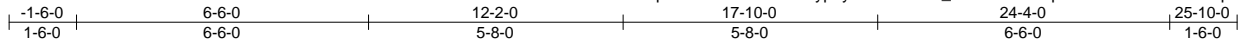
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 33610

Job 2719013	Truss T09	Truss Type Common	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909430
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:37 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-kGuJ2_fUADA5mGGpYC9vrfwYHAIbVDPLqDDJ3hzHsGC



4x6 ||

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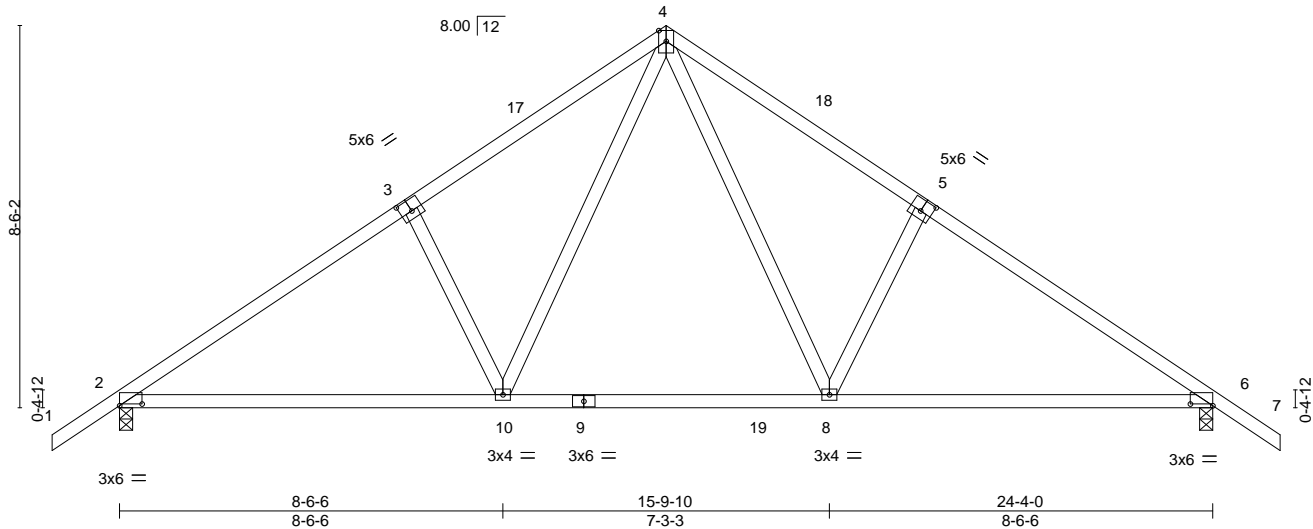


Plate Offsets (X,Y)-- [2:0-6-0,0-0-7], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-6-0,0-0-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	Vert(LL)	-0.12 10-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.70	Vert(CT)	-0.26 10-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT)	0.03 6	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 4-6-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

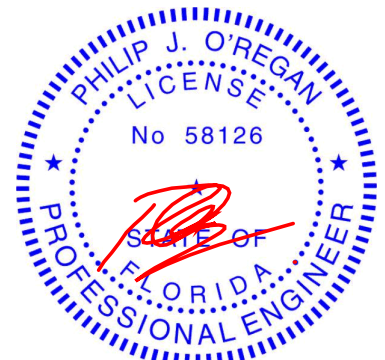
(size) 2=0-3-8, 6=0-3-8
Max Horz 2=201(LC 11)
Max Uplift 2=210(LC 12), 6=210(LC 13)
Max Grav 2=1105(LC 19), 6=1106(LC 20)

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

TOP CHORD 2-3=-1399/251, 3-4=-1313/308, 4-5=-1314/308, 5-6=-1400/251
BOT CHORD 2-10=-229/1256, 8-10=-55/828, 6-8=-120/1136
WEBS 4-8=-183/691, 5-8=-342/229, 4-10=-183/689, 3-10=-342/229

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-2-0, Exterior(2R) 12-2-0 to 15-2-0, Interior(1) 15-2-0 to 25-10-0 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 100 lb uplift at joint(s) except (jt=lb) 2=210, 6=210.



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6904 Parke East Blvd. Tampa FL 33610
Date:

May 12,2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T09G	Truss Type Common Supported Gable	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909431
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:39 2021 Page 1
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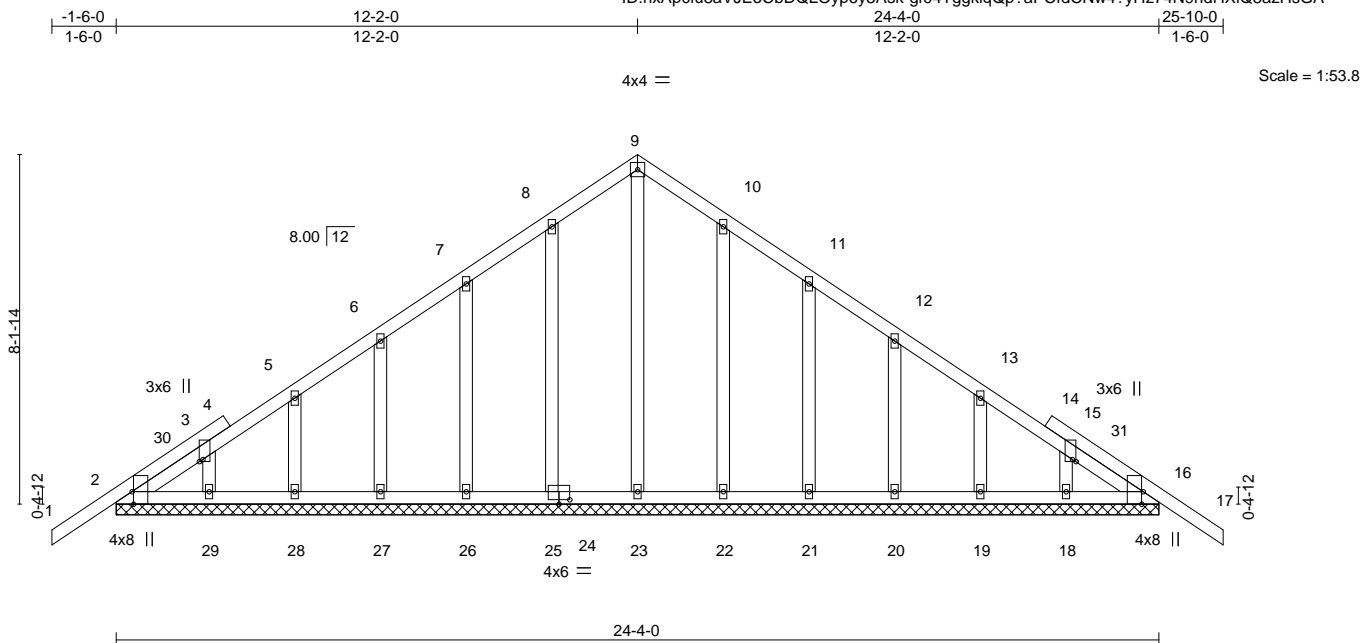


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-0-9,0-1-0], [15:0-0-9,0-1-0], [16:0-3-8,Edge], [24:0-3-0,0-1-4]

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 0.13	Vert(LL)	-0.01	17	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.01	17	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	16	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 158 lb	FT = 20%

LUMBER-

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

All bearings 24-4-0.

(lb) - Max Horz 2=-193(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18

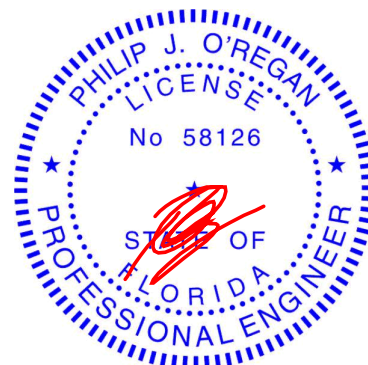
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18

FORCES.

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

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 Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 12-2-0, Corner(3R) 12-2-0 to 15-2-0, Exterior(2N) 15-2-0 to 25-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 100 lb uplift at joint(s) 2, 16, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18.



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Date:

May 12, 2021

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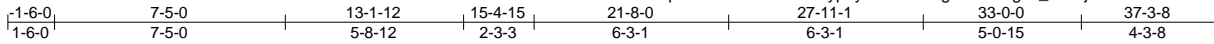
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T10	Truss Type Piggyback Base	Qty 5	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909432
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:40 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-8raSg0hNT8Ygdk_ODKjcTIX?LNFc6UOnWBS_g0zHsG9



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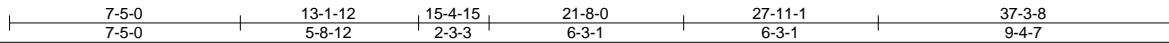
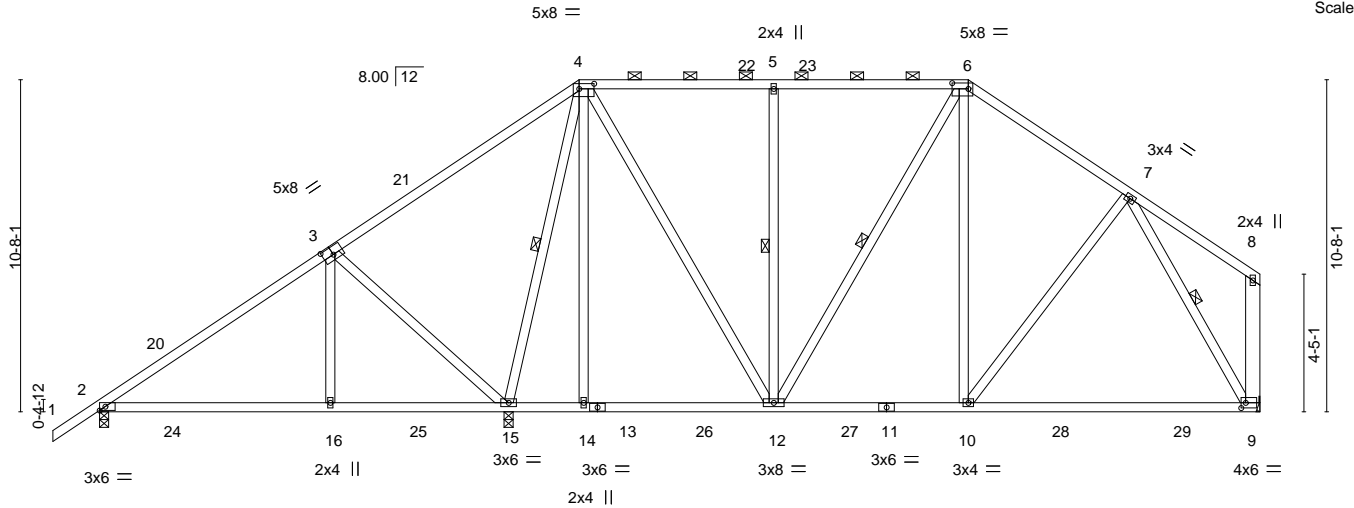


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-5-12,0-2-0], [6:0-6-4,0-2-4], [9:0-1-12,0-2-0]

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 0.69	Vert(LL)	-0.31 9-10	>927	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.50 9-10	>570	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.02 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 268 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 5-12, 6-12, 7-9

REACTIONS.

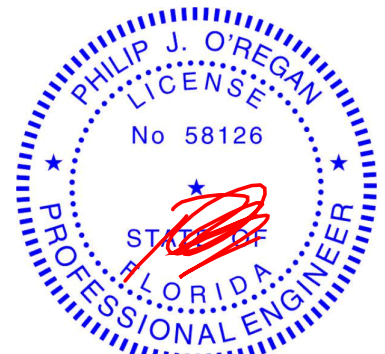
(size) 2=0-3-8, 15=0-3-8, 9=Mechanical
Max Horz 2=292(LC 11)
Max Uplift 2=-108(LC 12), 15=-364(LC 9), 9=-194(LC 13)
Max Grav 2=569(LC 25), 15=1574(LC 2), 9=1031(LC 26)

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

TOP CHORD 2-3=-519/265, 4-5=-569/202, 5-6=-569/202, 6-7=-785/220
BOT CHORD 2-16=-250/459, 15-16=-249/458, 10-12=-92/600, 9-10=-124/477
WEBS 3-16=-244/298, 3-15=-598/412, 4-15=-1121/192, 4-14=0/254, 4-12=-170/681, 5-12=-387/196, 6-10=-31/304, 7-9=-858/202

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) -1-6-0 to 2-2-12, Interior(1) 2-2-12 to 15-4-15, Exterior(2R) 15-4-15 to 20-8-4, Interior(1) 20-8-4 to 27-11-1, Exterior(2R) 27-11-1 to 33-1-1, Interior(1) 33-1-1 to 37-0-12 zone; end vertical right exposed; porch left exposed; 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=108, 15=364, 9=194.
- 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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Date:

May 12,2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T10G	Truss Type GABLE	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909433
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:44 2021 Page 1

ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-1cpyWNktXN365LI9SAnYd8iga_fP2DVMRQBpnzHsG5

1-6-0 1-6-0	7-5-0 7-5-0	15-11-4 8-6-4	21-8-0 5-8-12	27-4-12 5-8-12	33-0-0 5-7-4	37-3-8 4-3-8	38-10-0 1-6-8
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5x8 =

5x8 =

Scale = 1:77.9

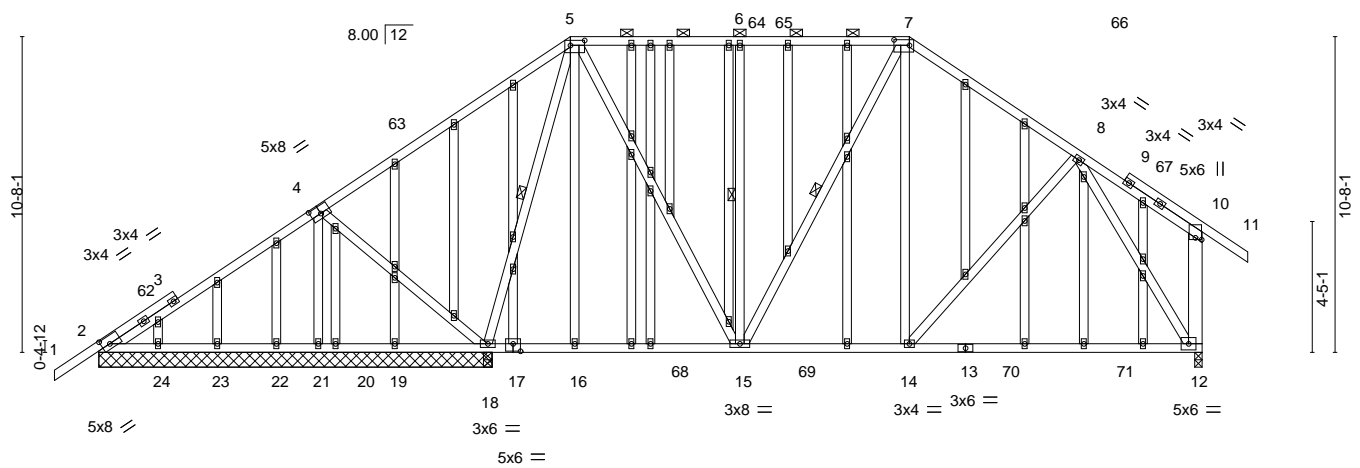


Plate Offsets (X,Y)--	[2:0-3-5,0-3-0], [4:0-4-0,0-3-0], [5:0-5-12,0-2-0], [7:0-6-4,0-2-4], [10:0-0-12,0-2-8], [17:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.73	Vert(LL) -0.35	12-14	>817	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.79	Vert(CT) -0.58	12-14	>500	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.96	Horz(CT) 0.02	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 440 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 13-17: 2x4 SP M 31
WEBS	2x4 SP No.3 *Except* 10-12: 2x6 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-18, 6-15, 7-15

REACTIONS.

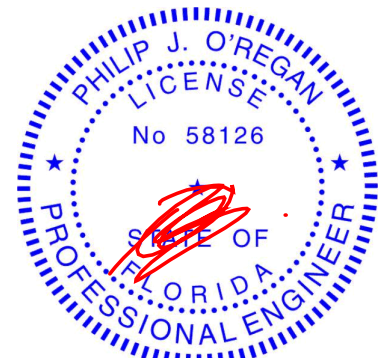
All bearings 13-3-8 except (jt=length) 12=0-3-0.
(lb) - Max Horz 2=297(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 24 except 21=206(LC 12), 18=237(LC 12), 12=230(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 24, 23, 22, 20, 19, 2 except 21=476(LC 19), 18=1064(LC 2), 18=961(LC 1), 12=1137(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=600/210, 6-7=600/210, 7-8=838/225, 10-12=257/114
BOT CHORD 16-18=117/348, 15-16=117/351, 14-15=88/639, 12-14=113/509
WEBS 4-21=457/215, 5-18=1004/176, 5-16=0/256, 5-15=163/595, 6-15=347/180, 7-14=25/337, 8-12=878/194

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) -1-6-0 to 2-2-12, Interior(1) 2-2-12 to 15-11-4, Exterior(2R) 15-11-4 to 21-2-9, Interior(1) 21-2-9 to 27-4-12, Exterior(2R) 27-4-12 to 32-8-1, Interior(1) 32-8-1 to 38-10-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- 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 100 lb uplift at joint(s) 2, 24, 2 except (jt=lb) 21=206, 18=237, 12=230.
- 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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May 12,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2719013	Truss T11	Truss Type Piggyback Base	Qty 2	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909434
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:46 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-z??xj3I73_JpLfsYZbq0iYn4jol9W7efu7vIugzHsG3

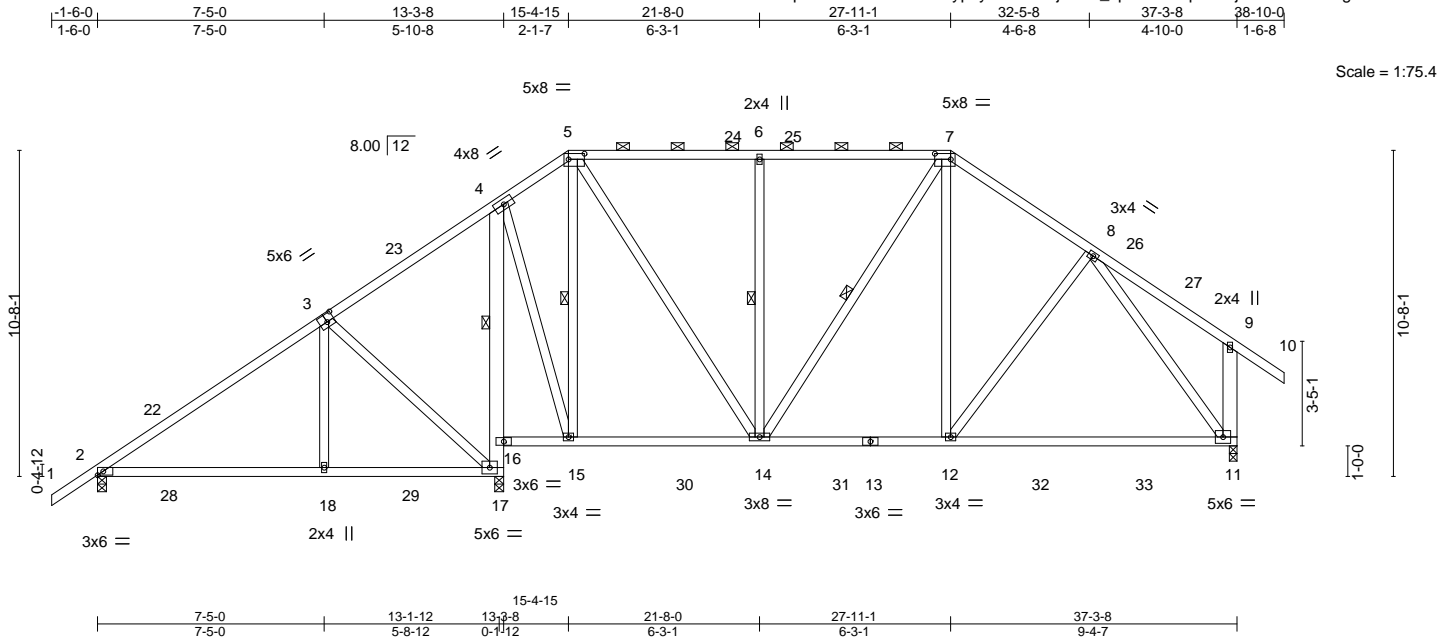


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-6-4,0-2-4], [7:0-6-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	Vert(LL)	-0.29 11-12	>979	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.90	Vert(CT)	-0.49 11-12	>591	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.99	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 276 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-17: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
9-11: 2x6 SP No.2

REACTIONS.

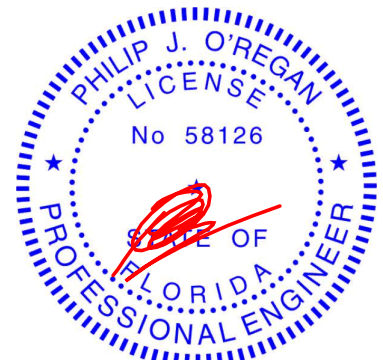
(size) 2=0-3-8, 17=0-3-8, 11=0-3-0
Max Horz 2=277(LC 11)
Max Uplift 2=123(LC 12), 17=372(LC 9), 11=247(LC 13)
Max Grav 2=596(LC 25), 17=1520(LC 2), 11=1117(LC 26)

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

TOP CHORD 2-3=-595/374, 4-5=-390/206, 5-6=-647/240, 6-7=-647/240, 7-8=-860/260,
9-11=-285/135
BOT CHORD 2-18=-258/442, 17-18=-257/441, 16-17=-1099/215, 4-16=-1101/218, 14-15=-75/274,
12-14=-76/669, 11-12=-115/578
WEBS 3-18=-255/304, 3-17=-531/369, 4-15=-131/816, 5-15=-555/156, 5-14=-152/677,
6-14=-394/192, 7-12=-33/335, 8-11=-885/171

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) -1-6-0 to 2-2-12, Interior(1) 2-2-12 to 15-4-15, Exterior(2R) 15-4-15 to 20-8-4, Interior(1) 20-8-4 to 27-11-1, Exterior(2R) 27-11-1 to 33-2-5, Interior(1) 33-2-5 to 38-10-0 zone; end vertical right exposed; porch left exposed; 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=123, 17=372, 11=247.
- 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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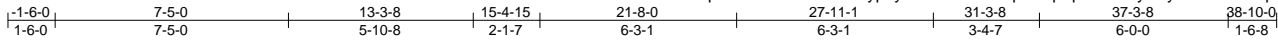
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST - SANTIAGO RES.	T23909435
2719013	T12	Piggyback Base	7	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:50 2021 Page 1
ID:nxAp0lu8aVJEoCbDQL0yp6y5Ask-smBEnQpe6DpFpGJlRuysOymPnFS2EFpW1RzHsG?



Scale = 1:73.2

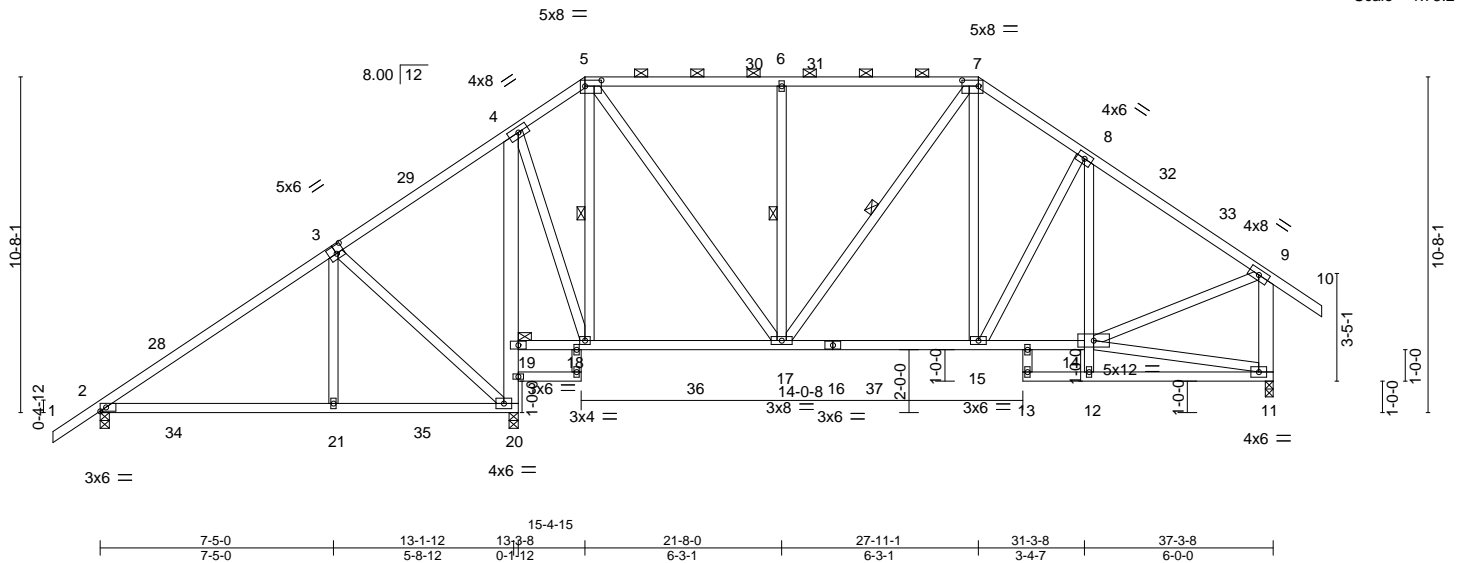


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-6-4,0-2-4], [7:0-6-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	Vert(LL)	0.12 21-27	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.51	Vert(CT)	-0.18 21-27	>867	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.56	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 290 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-20: 2x6 SP No.2, 8-12,22-23: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
9-11: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 19-20
10-0-0 oc bracing: 12-14
WEBS 1 Row at midpt 5-18, 6-17, 7-17
JOINTS 1 Brace at Jt(s): 19

REACTIONS.

(size) 2=0-3-8, 11=0-3-0, 20=0-3-8
Max Horz 2=277(LC 11)
Max Uplift 2=135(LC 12), 11=248(LC 13), 20=391(LC 9)
Max Grav 2=581(LC 25), 11=1123(LC 20), 20=1549(LC 2)

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

TOP CHORD 2-3=602/431, 4-5=419/248, 5-6=717/257, 6-7=717/257, 7-8=919/289, 8-9=1010/233, 9-11=1030/269
BOT CHORD 2-21=275/406, 20-21=274/406, 19-20=1129/234, 4-19=1120/237, 17-18=63/278, 15-17=74/729, 14-15=118/778
WEBS 3-21=255/305, 3-20=533/369, 4-18=147/826, 5-18=571/167, 5-17=140/736, 6-17=393/190, 7-15=61/386, 9-14=93/804

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) -1-6-0 to 2-2-12, Interior(1) 2-2-12 to 15-4-15, Exterior(2R) 15-4-15 to 20-8-4, Interior(1) 20-8-4 to 27-11-1, Exterior(2R) 27-11-1 to 33-2-5, Interior(1) 33-2-5 to 38-10-0 zone; end vertical right exposed; porch left exposed; 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 100 lb uplift at joint(s) except (jt=lb) 2=135, 11=248, 20=391.
- 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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Date:

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST - SANTIAGO RES.	T23909436
2719013	T13	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:53 2021 Page 1
ID:nxAp0lu8aVJEoCbDQL0yp6y5Ask-GLsMPSrWP8BqgUuUzSfU1aF7dhJeMThVj6AczmHsFy

1-6-0 7-5-0 13-3-8 15-4-15 21-8-0 27-11-1 33-0-0 37-3-8 38-10-0
1-6-0 7-5-0 5-10-8 2-1-7 6-3-1 6-3-1 5-0-15 4-3-8 1-6-8

Scale = 1:76.3

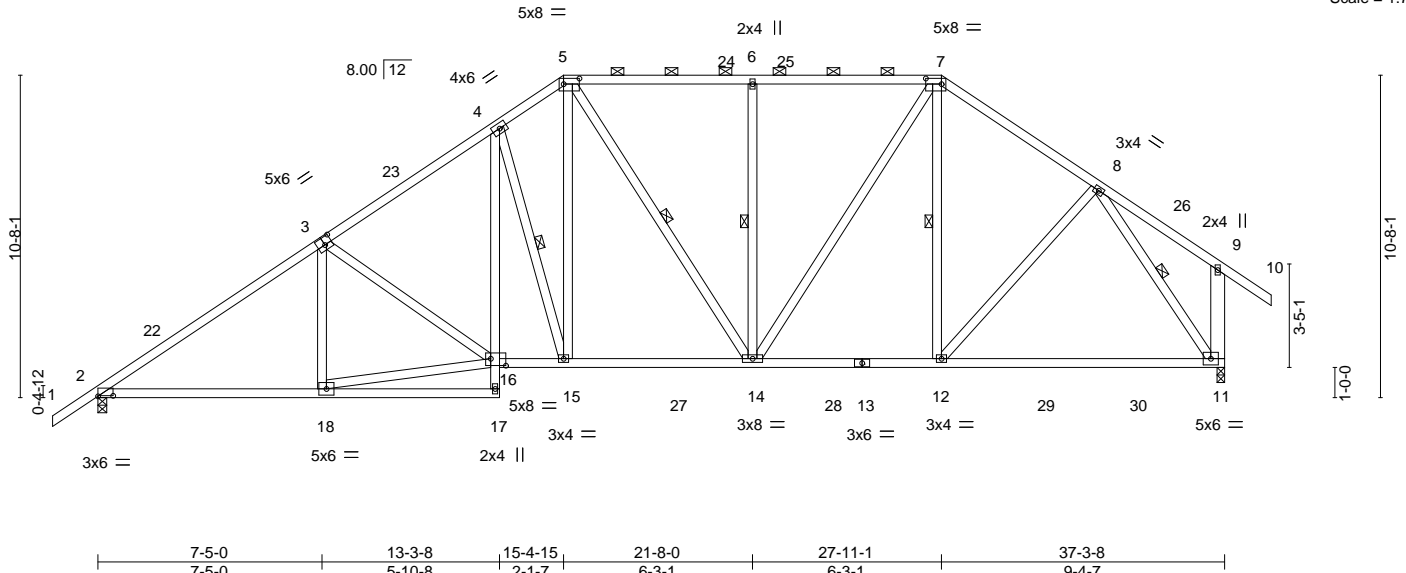


Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [3:0-3-0,0-3-0], [5:0-6-4,0-2-4], [7:0-6-4,0-2-4], [16:0-6-0,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.55	Vert(LL)	-0.29 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.93	Vert(CT)	-0.50 11-12	>894	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT)	0.09 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 275 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-17: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
9-11: 2x6 SP No.2

REACTIONS.

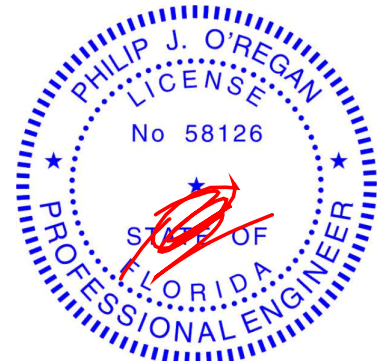
(size) 2=0-3-8, 11=0-3-0
Max Horz 2=277(LC 11)
Max Uplift 2=335(LC 12), 11=301(LC 13)
Max Grav 2=1579(LC 2), 11=1645(LC 2)

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

TOP CHORD 2-3=2313/456, 3-4=2074/478, 4-5=1824/480, 5-6=1517/379, 6-7=1517/379,
7-8=1490/317, 9-11=259/125
BOT CHORD 2-18=443/1951, 4-16=149/548, 15-16=324/1680, 14-15=291/1504, 12-14=167/1185,
11-12=154/907
WEBS 16-18=438/1823, 3-16=330/170, 4-15=669/264, 5-15=227/917, 6-14=390/192,
7-14=208/642, 8-12=115/455, 8-11=1522/261

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) -1-6-0 to 2-2-12, Interior(1) 2-2-12 to 15-4-15, Exterior(2R) 15-4-15 to 20-8-4, Interior(1) 20-8-4 to 27-11-1, Exterior(2R) 27-11-1 to 33-1-3, Interior(1) 33-1-3 to 38-10-0 zone; end vertical right exposed; 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=335, 11=301.
- 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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May 12,2021

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

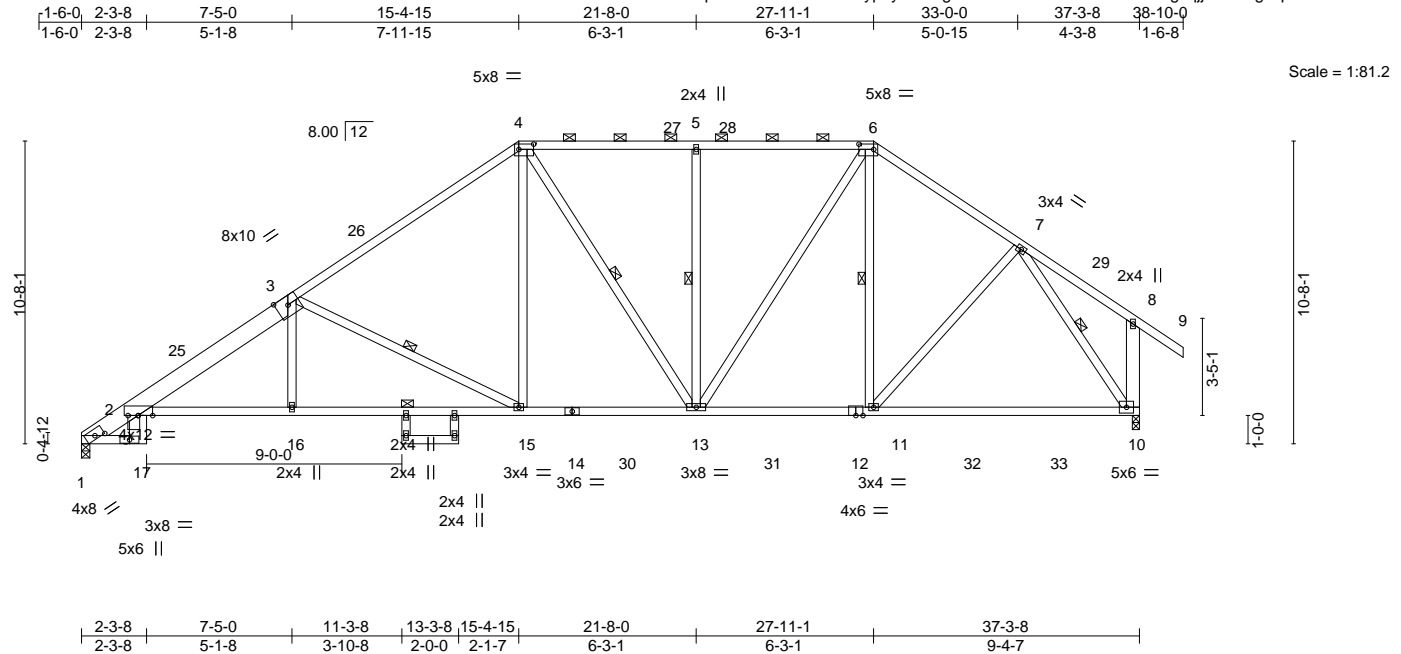
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T14	Truss Type Piggyback Base	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909437
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:45:56 2021 Page 1
ID:nxAp0lu8aVJEoCbDQL0yp6y5Ask-gwYV1UtPi3ZPYBDT9h?M6fCgvqjrm08CgKqD4zHsFv



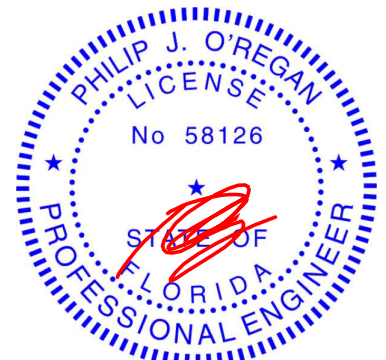
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.90	Vert(LL) -0.30	10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.95	Vert(CT) -0.51	10-11	>874	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.22	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 263 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-3: 2x8 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-5-7 max.): 4-6.
BOT CHORD 2x4 SP No.2 *Except* 2-17: 2x8 SP 2400F 2.0E, 18-19: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 7-8-0 oc bracing: 15-16
WEBS 2x4 SP No.3 *Except* 8-10: 2x6 SP No.2	WEBS 1 Row at midpt 3-15, 4-13, 5-13, 6-11, 7-10

REACTIONS. (size) 1=0-3-8, 10=0-3-0
Max Horz 1=263(LC 11)
Max Uplift 1=298(LC 12), 10=300(LC 13)
Max Grav 1=1522(LC 2), 10=1641(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=959/163, 2-3=2698/570, 3-4=1912/428, 4-5=1508/378, 5-6=1508/378,
6-7=1486/317, 8-10=258/125
BOT CHORD 2-16=588/2481, 15-16=587/2492, 13-15=291/1503, 11-13=166/1181, 10-11=153/904
WEBS 3-16=0/328, 3-15=1110/395, 4-15=121/777, 5-13=387/195, 6-13=208/633,
7-11=115/453, 7-10=1517/260

- 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) 0-1-12 to 3-10-8, Interior(1) 3-10-8 to 15-4-15, Exterior(2R) 15-4-15 to 20-8-4, Interior(1) 20-8-4 to 27-11-1, Exterior(2R) 27-11-1 to 33-1-3, Interior(1) 33-1-3 to 38-10-0 zone; end vertical right exposed; 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=298, 10=300.
 - 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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Date:

May 12, 2021

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

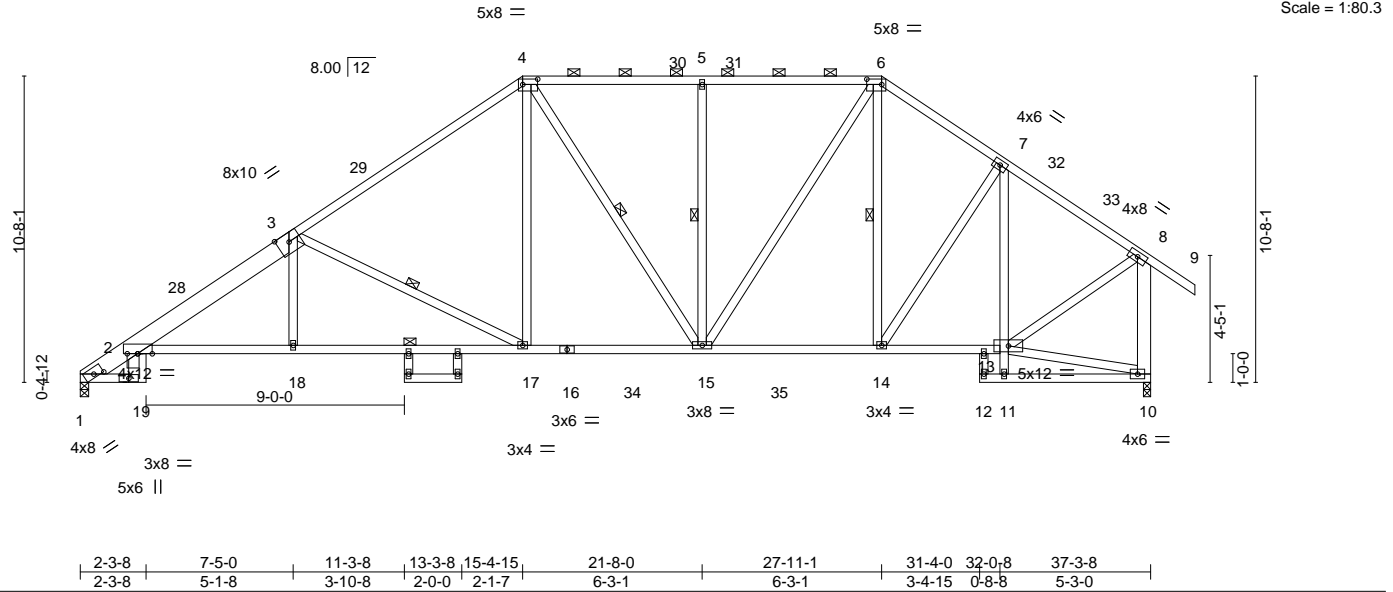


6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T15	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909438
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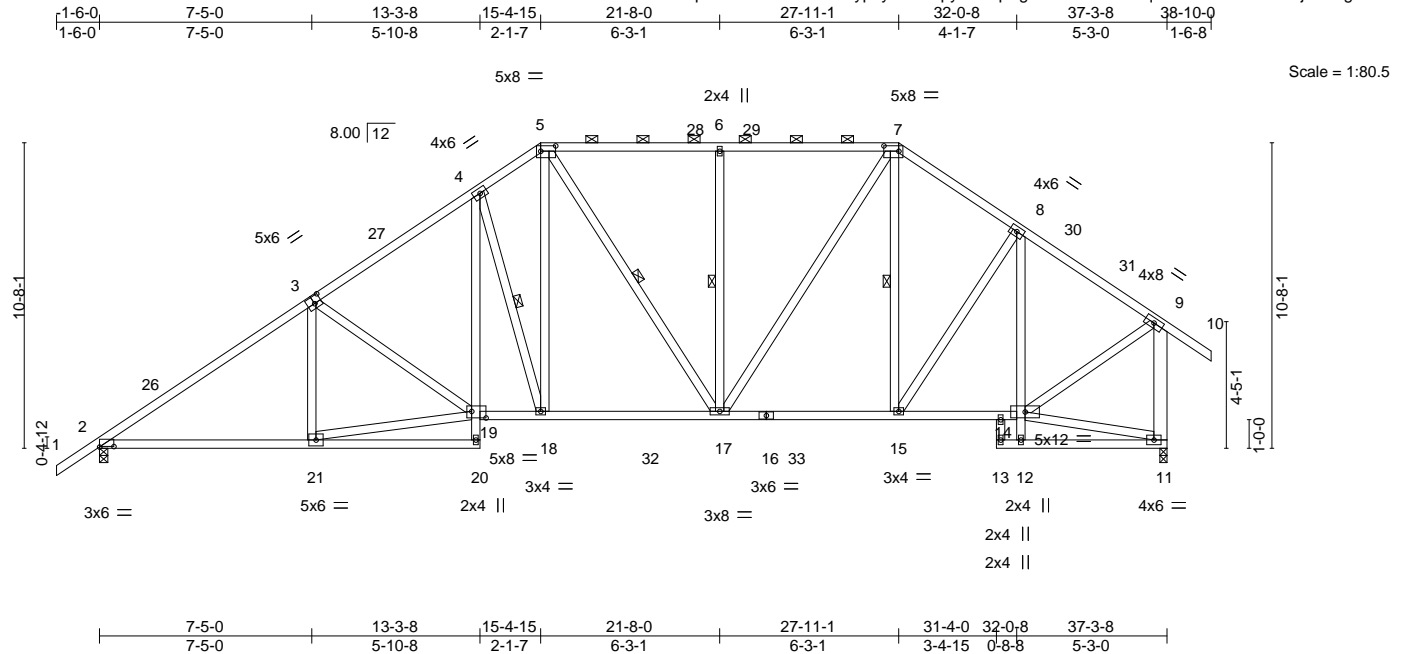
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:04 2021 Page 1
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2-3-8 7-5-0 15-4-15 21-8-0 27-11-1 32-0-8 37-3-8 38-10-0
2-3-8 5-1-8 7-11-15 6-3-1 6-3-1 4-1-7 5-3-0 1-6-8



Job 2719013	Truss T16	Truss Type Piggyback Base	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909439
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:11 2021 Page 1
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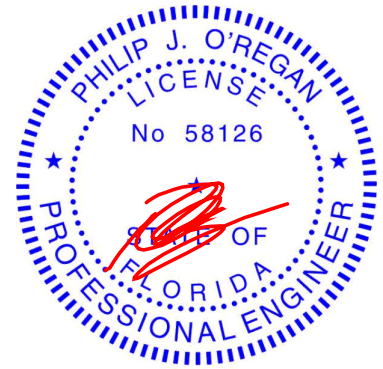
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.55	Vert(LL) -0.13	17-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.74	Vert(CT) -0.23	21-25	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.10	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 295 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-2 max.): 5-7.
BOT CHORD 2x4 SP No.2 *Except* 4-20,8-12: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-9-2 oc bracing: 2-21. 10-0-0 oc bracing: 12-14
WEBS 2x4 SP No.3 *Except* 9-11: 2x6 SP No.2	WEBS 1 Row at midpt 4-18, 5-17, 6-17, 7-15

REACTIONS.	(size) 2=0-3-8, 11=0-3-0
	Max Horz 2=300(LC 11)
	Max Uplift 2=334(LC 12), 11=296(LC 13)
	Max Grav 2=1578(LC 2), 11=1630(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=2311/455, 3-4=2073/474, 4-5=1820/477, 5-6=1520/376, 6-7=1520/376, 7-8=1454/329, 8-9=1289/248, 9-11=1542/316
BOT CHORD	2-21=426/1955, 4-19=147/557, 18-19=338/1686, 17-18=305/1501, 15-17=183/1162, 14-15=157/1023, 8-14=505/111
WEBS	19-21=420/1830, 3-19=329/172, 4-18=677/261, 5-18=228/906, 6-17=390/191, 7-17=201/687, 8-15=129/302, 9-14=154/1207

- 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) -1-6-0 to 2-2-12, Interior(1) 2-2-12 to 15-4-15, Exterior(2R) 15-4-15 to 20-8-4, Interior(1) 20-8-4 to 27-11-1, Exterior(2R) 27-11-1 to 33-2-5, Interior(1) 33-2-5 to 38-10-0 zone; end vertical right exposed; 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=334, 11=296.
 - 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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Date:

May 12,2021

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

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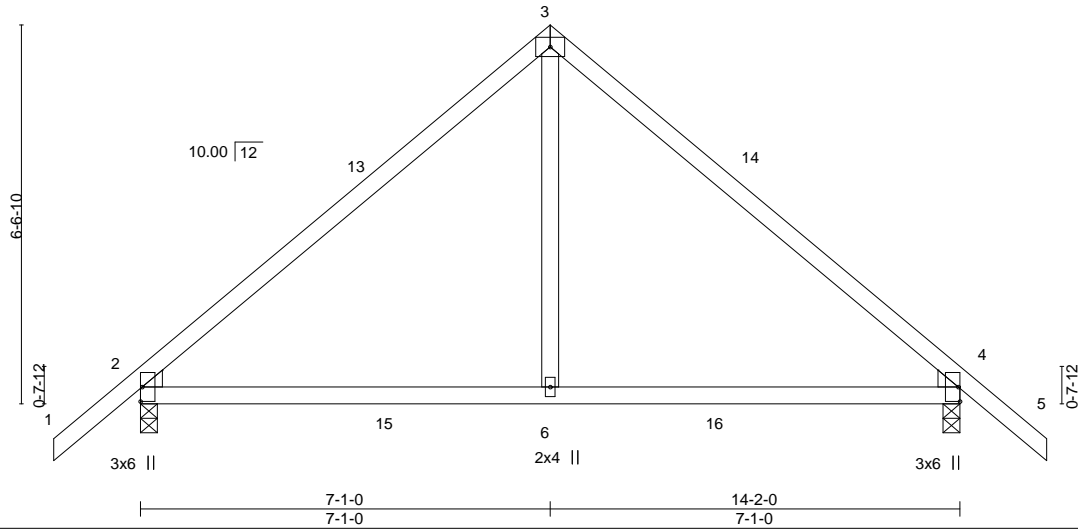
Job 2719013	Truss T17	Truss Type Common	Qty 3	Ply 1	IC CONST - SANTIAGO RES. T23909440
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:13 2021 Page 1
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4x6 =

Scale = 1:39.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.58	Vert(LL) -0.09 6-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.16	Vert(CT) -0.14 6-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 2 n/a n/a		
	Code FBC2020/TPI2014			Weight: 65 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=158(LC 11)
Max Uplift 2=-128(LC 12), 4=-128(LC 13)
Max Grav 2=693(LC 19), 4=693(LC 20)

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

TOP CHORD 2-3=-659/164, 3-4=-659/164
BOT CHORD 2-6=-17/474, 4-6=-17/474
WEBS 3-6=-12/415

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-1-0, Exterior(2R) 7-1-0 to 10-1-0, Interior(1) 10-1-0 to 15-8-0 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 100 lb uplift at joint(s) except (jt=lb) 2=128, 4=128.



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



6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T17G	Truss Type Common Supported Gable	Qty 1	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909441
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:15 2021 Page 1
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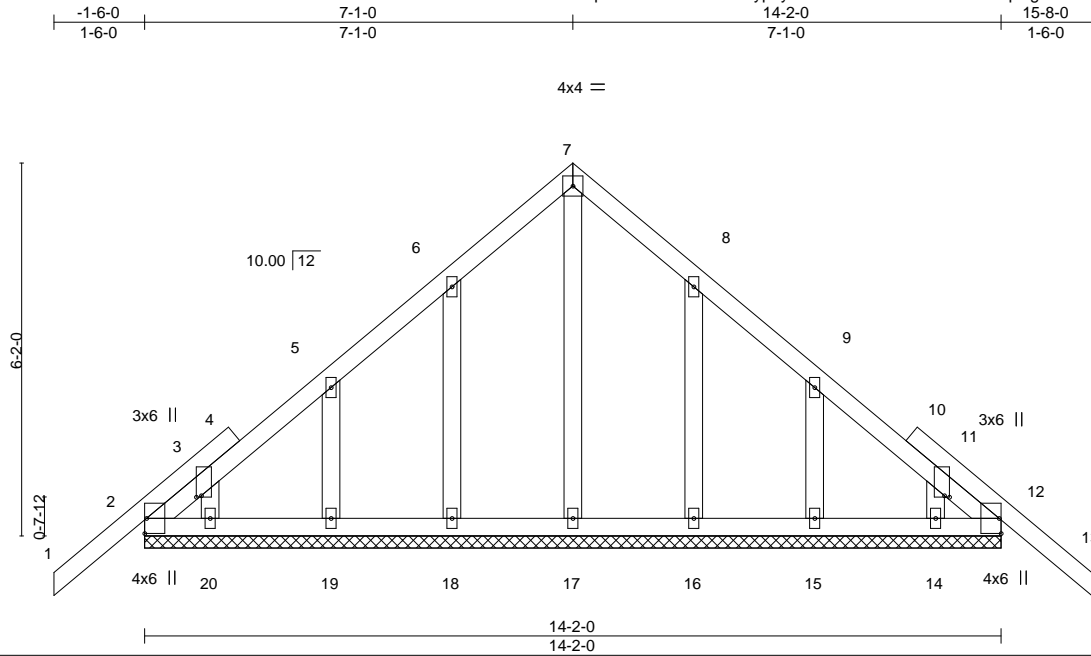


Plate Offsets (X,Y)-- [3:0-0-5,0-1-0], [11:0-0-5,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	-0.01 13	n/r	120	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.05	Vert(CT)	-0.01 13	n/r	120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.08	Horz(CT)	0.00 12	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 89 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

All bearings 14-2-0.

(lb) - Max Horz 2--149(LC 10)

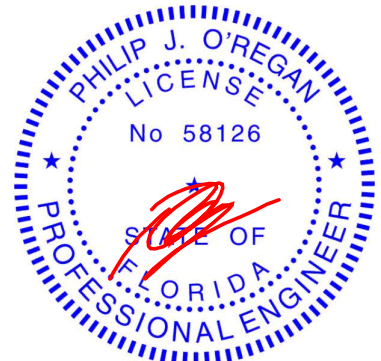
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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 Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 7-1-0, Corner(3R) 7-1-0 to 10-1-0, Exterior(2N) 10-1-0 to 15-8-0 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) 2, 12, 18, 19, 20, 16, 15, 14.



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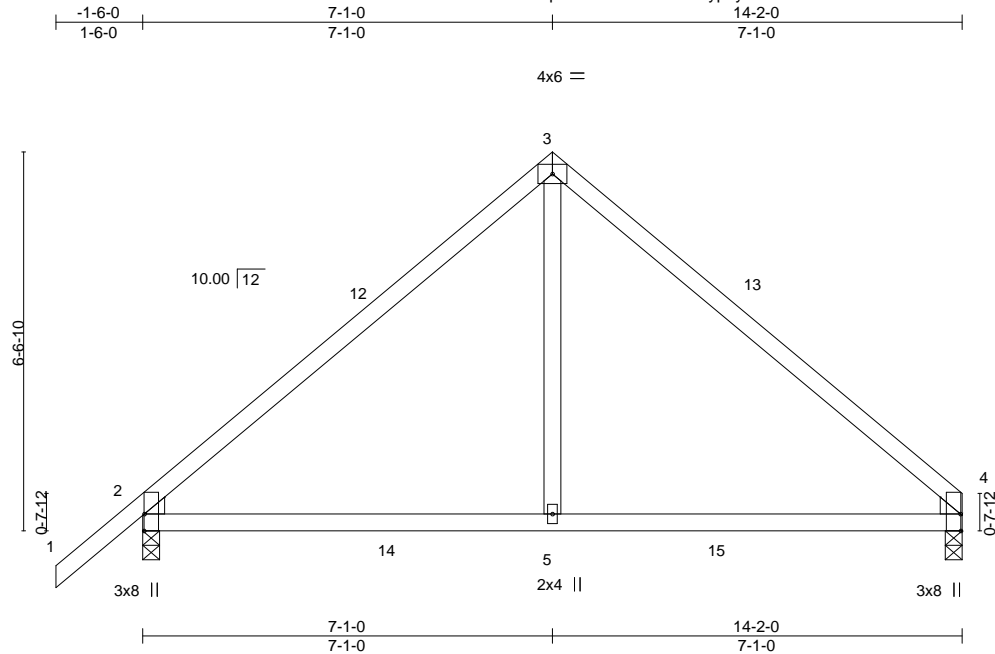
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T18	Truss Type Common	Qty 3	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909442
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:17 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-ZzJRR7aiWDQZPJVuctHS5aM?lyFGLFD1SwRTNzHsFa



Scale = 1:39.8

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

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)	-0.10 5-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.15 5-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.02 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 62 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 5-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

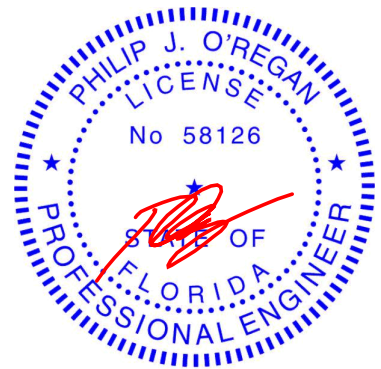
(size) 2=0-3-8, 4=0-3-8
Max Horz 2=148(LC 11)
Max Uplift 2=-129(LC 12), 4=-94(LC 13)
Max Grav 2=695(LC 19), 4=614(LC 20)

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

TOP CHORD 2-3=-668/169, 3-4=-663/171
BOT CHORD 2-5=-37/464, 4-5=-37/464
WEBS 3-5=-19/417

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-1-0, Exterior(2R) 7-1-0 to 10-1-0, Interior(1) 10-1-0 to 14-2-0 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=129.



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Date:

May 12, 2021

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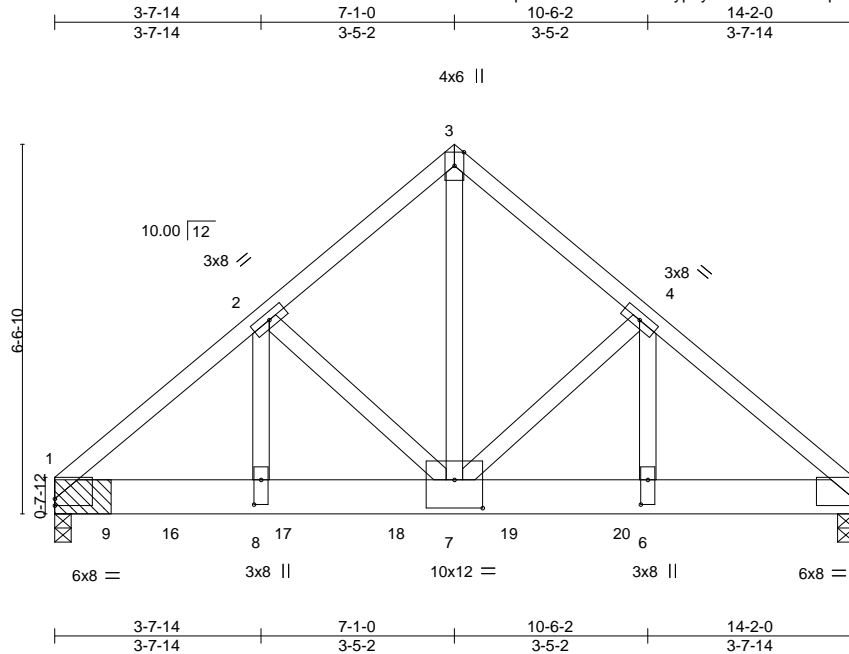
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss T19	Truss Type Common Girder	Qty 1	Ply 1	IC CONST - SANTIAGO RES. T23909443
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:19 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-VLRBsL9qh7T8ojTu?1wYwffQ5j6k5ZWUIPYXFzHsFY



Scale = 1:40.8

Plate Offsets (X,Y)--		[1:0-0-0,0-1-7], [5:Edge,0-1-7], [6:0-5-4,0-1-8], [7:0-6-0,0-6-0], [8:0-5-4,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d
TCDL 7.0	Plate Grip DOL 1.25	BC 0.31	Vert(LL) -0.08 7-8 >999 240
BCLL 0.0 *	Lumber DOL 1.25	WB 0.81	Vert(CT) -0.12 7-8 >999 180
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 5 n/a n/a
	Code FBC2020/TPI2014		
		PLATES	GRIP
		MT20	244/190
		Weight: 104 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
3-7: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=(0-3-8 + bearing block) (req. 0-3-15), 5=0-3-8
Max Horz 1=130(LC 25)
Max Uplift 1=667(LC 8), 5=523(LC 9)
Max Grav 1=3345(LC 2), 5=2617(LC 2)

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

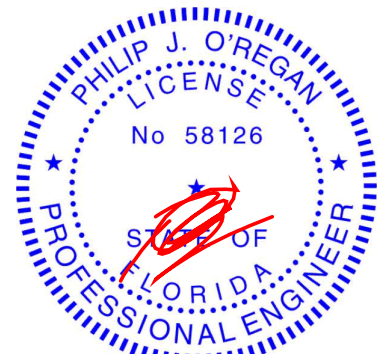
TOP CHORD 1-2=-4169/843, 2-3=-2960/655, 3-4=-2958/655, 4-5=-3665/742
BOT CHORD 1-8=-668/3165, 7-8=-668/3165, 6-7=-529/2770, 5-6=-529/2770
WEBS 3-7=-752/3571, 4-7=-719/247, 4-6=-144/813, 2-7=-1260/353, 2-8=-277/1494

NOTES-

- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 1 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP No.2.
- 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; 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 100 lb uplift at joint(s) except (jt=lb) 1=667, 5=523.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1011 lb down and 214 lb up at 2-0-12, 1011 lb down and 214 lb up at 4-0-12, 1011 lb down and 214 lb up at 6-0-12, and 1011 lb down and 214 lb up at 8-0-12, and 1011 lb down and 214 lb up at 10-0-12 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, 10-13=-20



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May 12,2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST - SANTIAGO RES.	T23909443
2719013	T19	Common Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 16=-861(F) 17=-861(F) 18=-861(F) 19=-861(F) 20=-861(F)

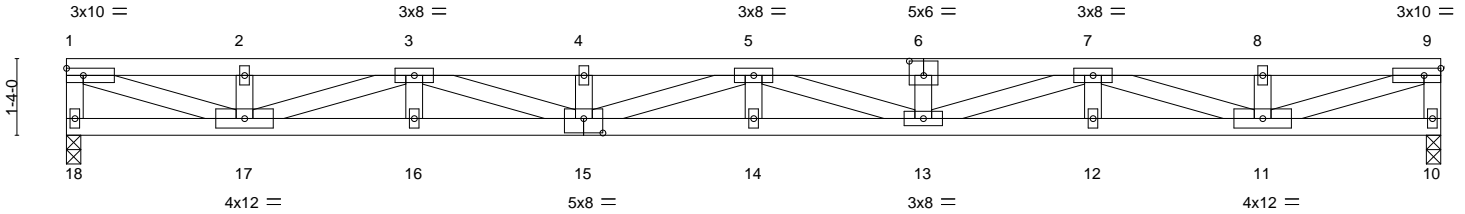
Job 2719013	Truss TF01	Truss Type FLOOR	Qty 2	Ply 2	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909444
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:20 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-zY?Z3hAS2Rb?Qt24ZkR_4jByvV0zTZYgjP853hzHsFX

3-1-3	6-0-10	9-0-1	11-11-8	14-10-15	17-10-6	20-9-13	23-11-0
3-1-3	2-11-7	2-11-7	2-11-7	2-11-7	2-11-7	2-11-7	3-1-3

Scale = 1:40.1



THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0"
OF UNIFORM LOAD AS SHOWN.

3-1-3	6-0-10	9-0-1	11-11-8	14-10-15	17-10-6	20-9-13	23-11-0
3-1-3	2-11-7	2-11-7	2-11-7	2-11-7	2-11-7	2-11-7	3-1-3

Plate Offsets (X,Y)-- [6:0-3-0,0-3-0], [15:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.20	Vert(LL)	-0.40	14	>702	360	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.46	Vert(CT)	-0.56	14	>510	240	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.06	10	n/a	n/a	
BCDL 5.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 228 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31
BOT CHORD 2x4 SP M 31
WEBS 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.

REACTIONS.

(size) 18=0-3-0, 10=0-3-0
Max Grav 18=1299(LC 1), 10=1299(LC 1)

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

TOP CHORD 1-18=-1239/0, 1-2=-3170/0, 2-3=-3170/0, 3-4=-6778/0, 4-5=-6779/0, 5-6=-6779/0,
6-7=-6781/0, 7-8=-3170/0, 8-9=-3170/0, 9-10=-1239/0
BOT CHORD 16-17=0/5441, 15-16=0/5441, 14-15=0/7233, 13-14=0/7233, 12-13=0/5441, 11-12=0/5441
WEBS 1-17=0/3207, 2-17=-278/0, 3-17=-2408/0, 3-15=0/1418, 4-15=-289/0, 5-15=-481/0,
5-13=-481/0, 6-13=-289/0, 7-13=0/1420, 7-11=-2409/0, 8-11=-278/0, 9-11=0/3207

NOTES-

- 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.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Date:

May 12,2021

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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

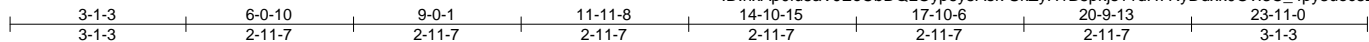


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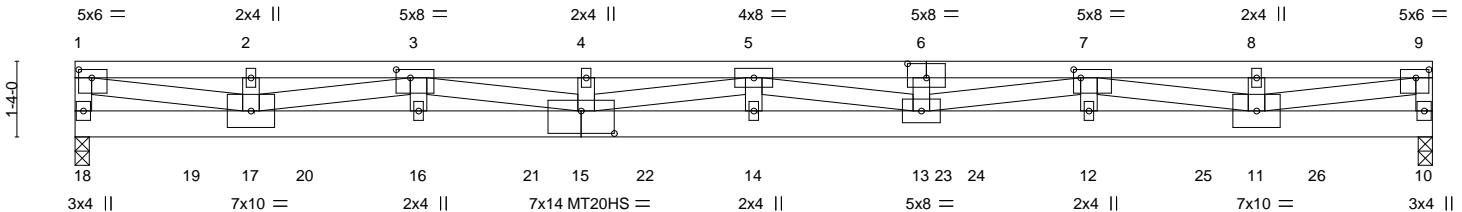
Job 2719013	Truss TF01G	Truss Type FLOOR	Qty 1	Ply 3	IC CONST - SANTIAGO RES. T23909445
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:21 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-SkZyH1B5pkjs11dH7RyDdxk0Ovl3C_4py3uec8zHsFW



Scale = 1:40.6



	3-1-3	6-0-10	9-0-1	11-11-8	14-10-15	17-10-6	20-9-13	23-11-0
	3-1-3	2-11-7	2-11-7	2-11-7	2-11-7	2-11-7	2-11-7	3-1-3

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.70	13-14	>406	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.94	13-14	>300	240	MT20HS	187/143	
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.08	10	n/a	n/a			
BCDL	5.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 394 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP M 31	TOP CHORD	Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals.
BOT CHORD	2x6 SP M 26	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*		
	1-17,3-17,3-15,5-15,5-13,7-13,7-11,9-11: 2x4 SP No.2		

REACTIONS. (size) 18=0-3-0, 10=0-3-0
Max Grav 18=2936(LC 1), 10=3651(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-2558/0, 1-2=-7644/0, 2-3=-7644/0, 3-4=-18025/0, 4-5=-18042/0, 5-6=-20792/0, 6-7=-20804/0, 7-8=-9467/0, 8-9=-9467/0, 9-10=-3138/0
BOT CHORD 17-18=0/515, 16-17=0/14371, 15-16=0/14371, 14-15=0/21615, 13-14=0/21615, 12-13=0/17530, 11-12=0/17530, 10-11=0/642
WEBS 1-17=0/7496, 3-17=-7072/0, 3-16=0/586, 3-15=0/3853, 5-15=-3747/0, 5-14=0/967, 5-13=-865/0, 7-13=0/3441, 7-12=0/1149, 7-11=-8477/0, 9-11=0/9278

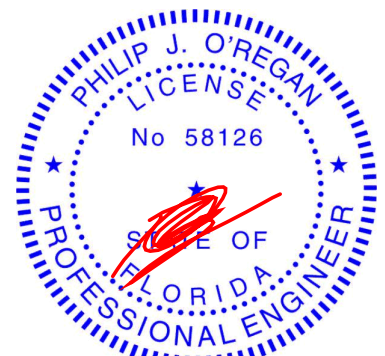
- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally 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.
 - All plates are MT20 plates unless otherwise indicated.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 183 lb down at 2-0-12, 183 lb down at 4-0-12, 183 lb down at 6-0-12, 183 lb down at 8-0-12, 183 lb down at 10-0-12, 533 lb down at 11-9-15, 1062 lb down at 15-3-12, 370 lb down at 15-10-12, 370 lb down at 17-10-12, and 370 lb down at 19-10-12, and 370 lb down at 21-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)
Vert: 1-9=100, 10-18=10

Concentrated Loads (lb)
Vert: 16=-183(F) 14=-533(F) 12=-370(F) 19=-183(F) 20=-183(F) 21=-183(F) 22=-183(F) 23=-1062(F) 24=-370(F) 25=-370(F) 26=-370(F)



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May 12,2021

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Job 2719013	Truss TF02	Truss Type FLOOR	Qty 5	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909446
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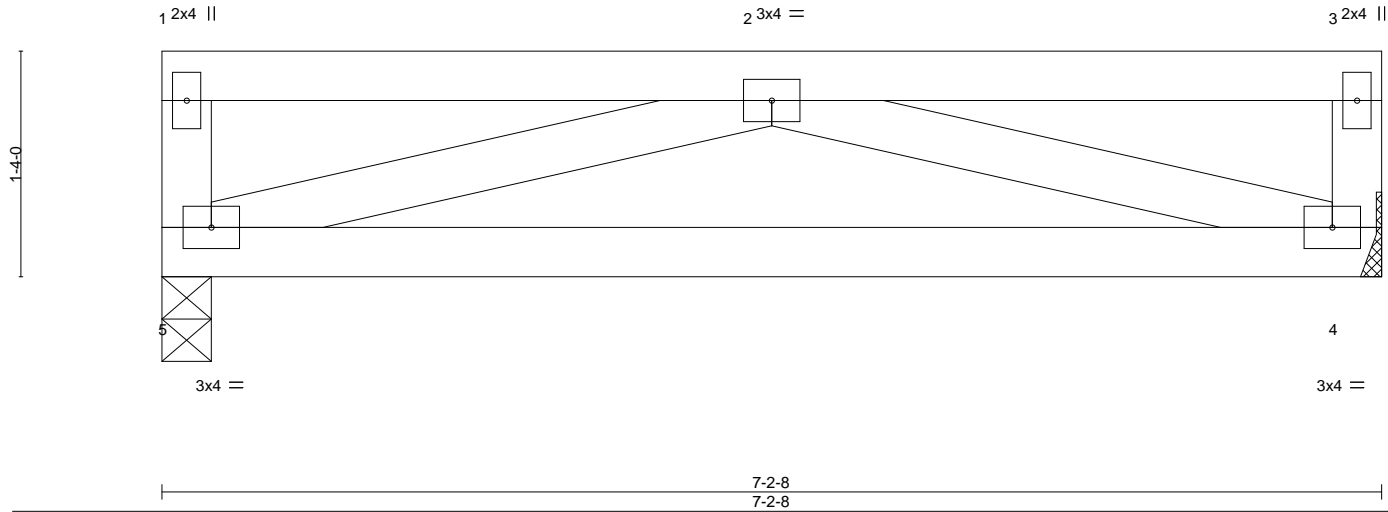
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:24 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-sJE4v2Dz6f5QvUMroaVwFZMdR6QSPV8Fe16JCTzHsFT

3-7-4
3-7-4

7-2-8
3-7-4

Scale = 1:13.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.23	Vert(LL)	-0.00 4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.30	Vert(CT)	-0.04 4-5	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.01 4	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 34 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

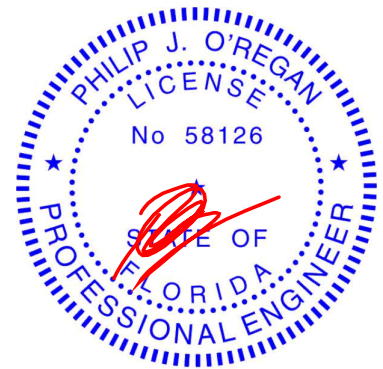
(size) 5=0-3-8, 4=Mechanical
Max Grav 5=380(LC 1), 4=380(LC 1)

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

BOT CHORD 4-5=0/686
WEBS 2-5=-643/0, 2-4=-643/0

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Date:

May 12, 2021

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

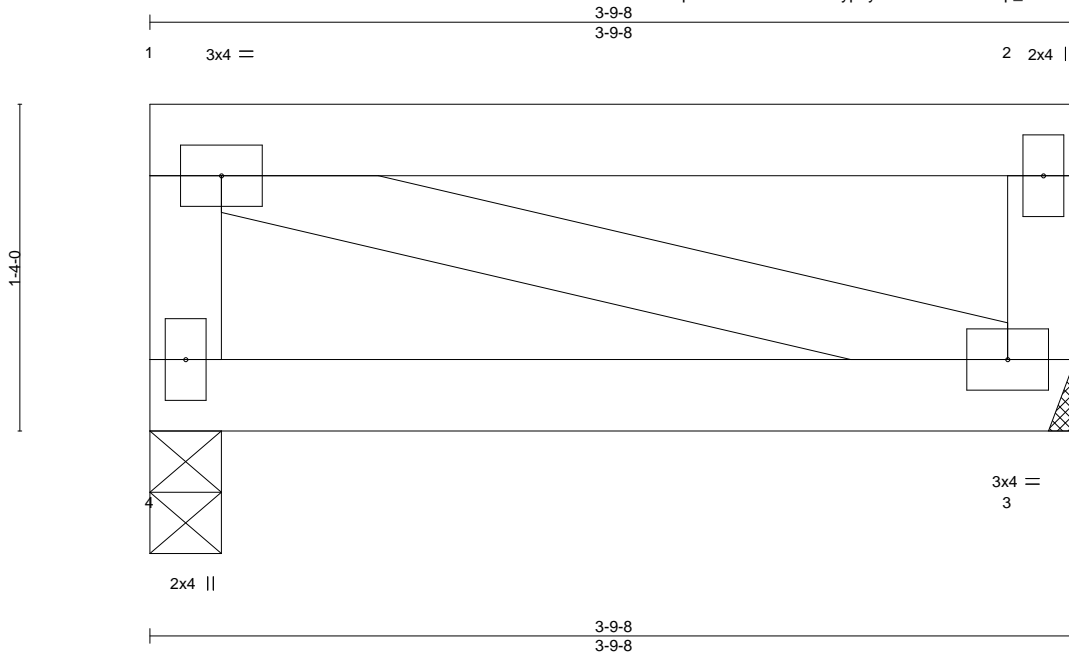


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Job 2719013	Truss TF04	Truss Type FLOOR	Qty 6	Ply 1	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909448
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:31 2021 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-9f9kNSIMSp_REZOCiY7Z129nUxt3YIBHFdJAyZzHsFM



Scale = 1:9.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.43	Vert(LL)	0.00 4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.04	Vert(CT)	-0.00 3-4	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 18 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 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

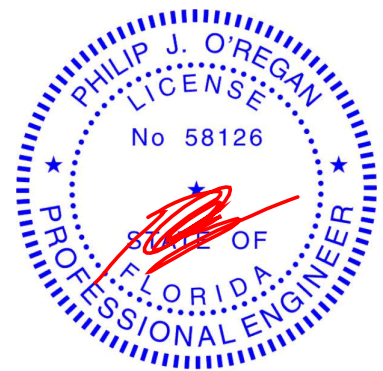
REACTIONS.

(size) 4=0-3-8, 3=Mechanical
Max Grav 4=193(LC 1), 3=193(LC 1)

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

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Date:

May 12, 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

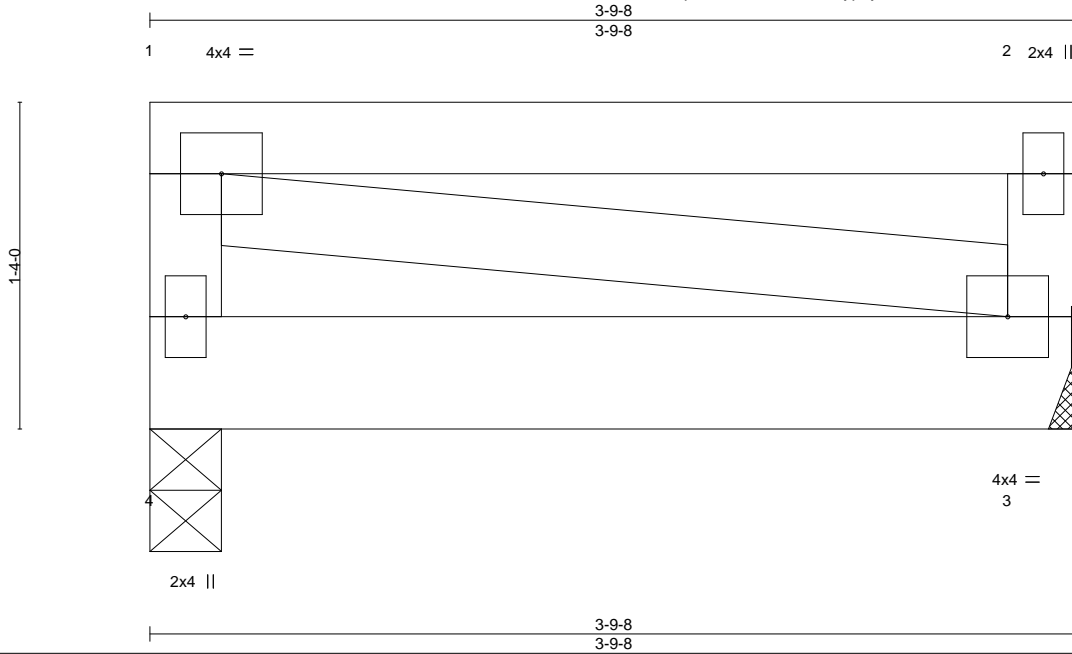


6904 Parke East Blvd.
Tampa, FL 36610

Job 2719013	Truss TF05	Truss Type FLOOR	Qty 1	Ply 2	IC CONST - SANTIAGO RES. Job Reference (optional)	T23909449
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 10 15:46:33 2021 Page 1
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LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(LL) 0.00 4 >999 360		
BCLL 0.0	Lumber DOL 1.00	WB 0.00	Vert(CT) -0.00 4 >999 240		
BCDL 5.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 3 n/a n/a		
	Code FBC2020/TPI2014			Weight: 42 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 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=0-3-8, 3=Mechanical
Max Grav 4=543(LC 1), 3=543(LC 1)

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

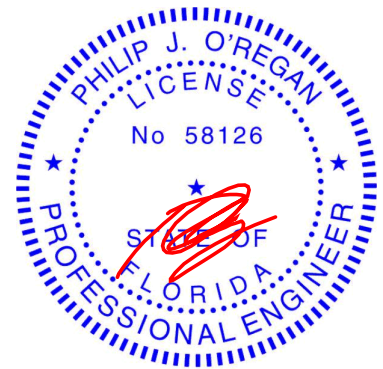
TOP CHORD 1-4=-525/0, 2-3=-525/0

NOTES-

- 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-300(F=-200), 3-4=-10



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

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Job	Truss	Truss Type	Qty	Ply	IC CONST - SANTIAGO RES.
2719013	TG01	ROOF SPECIAL GIRDER	1	2	T23909450

LOAD CASE(S) Standard

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

Uniform Loads (plf)

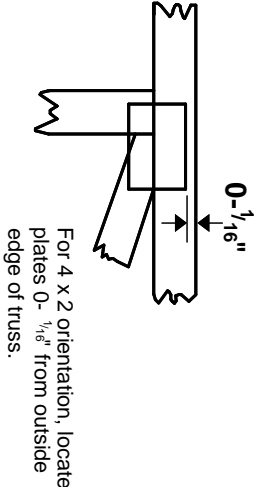
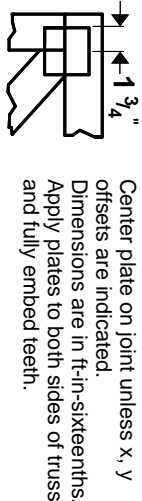
Vert: 1-4=-239(F=-185), 5-8=-446(F=-426)

Concentrated Loads (lb)

Vert: 5=-48 7=-416(B) 6=-416(B) 10=-416(B) 11=-416(B) 12=-416(B)

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.

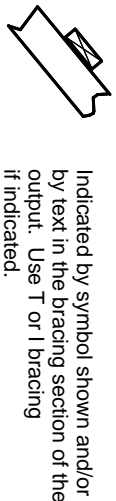
For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

PLATE SIZE

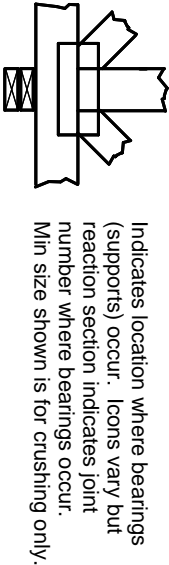
4 X 4

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

LATERAL BRACING LOCATION



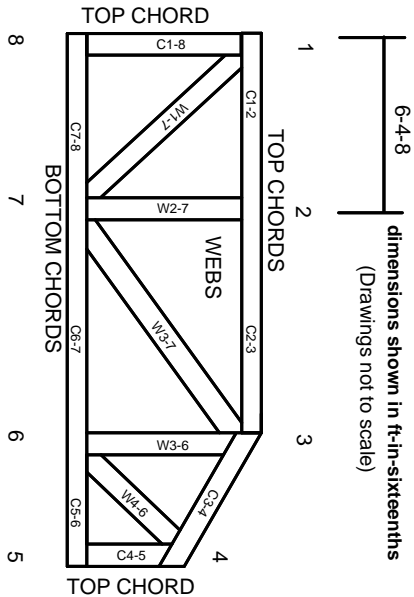
BEARING



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

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/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 Tor 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.