



RE: HR0009

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

Site Information:

Customer: K Hovnanain Homes Project Name: HR0009
Lot/Block: Bldg. 9 Model: Type D 6 Unit Bldg.
Address: 870-900 NE Trailside Run Subdivision: Hawk's Ridge
City: Port St. Lucie State: FL

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

Design Code: FBC2020/TPI2014
Wind Code: ASCE 7-16
Roof Load: 55.0 psf

Design Program: MiTek 20/20 8.5
Wind Speed: 170 mph
Floor Load: 65.0 psf

This package includes 78 individual, dated 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	T29127018	C1	11/3/2022	21	T29127038	FG08	11/3/2022
2	T29127019	C3	11/3/2022	22	T29127039	FG09	11/3/2022
3	T29127020	C5	11/3/2022	23	T29127040	FL01	11/3/2022
4	T29127021	CJ01	11/3/2022	24	T29127041	FL02	11/3/2022
5	T29127022	CJ1	11/3/2022	25	T29127042	FL03	11/3/2022
6	T29127023	CJ3	11/3/2022	26	T29127043	FL04	11/3/2022
7	T29127024	CJ3A	11/3/2022	27	T29127044	FL05	11/3/2022
8	T29127025	E2	11/3/2022	28	T29127045	FL06	11/3/2022
9	T29127026	E7	11/3/2022	29	T29127046	FL07	11/3/2022
10	T29127027	EJ01	11/3/2022	30	T29127047	FL09	11/3/2022
11	T29127028	EJ02	11/3/2022	31	T29127048	FL10	11/3/2022
12	T29127029	EJ3	11/3/2022	32	T29127049	FL11	11/3/2022
13	T29127030	EJ04	11/3/2022	33	T29127050	FL12	11/3/2022
14	T29127031	FG01	11/3/2022	34	T29127051	FL13	11/3/2022
15	T29127032	FG02	11/3/2022	35	T29127052	FL14	11/3/2022
16	T29127033	FG03	11/3/2022	36	T29127053	FL15	11/3/2022
17	T29127034	FG04	11/3/2022	37	T29127054	FL16	11/3/2022
18	T29127035	FG05	11/3/2022	38	T29127055	FL16A	11/3/2022
19	T29127036	FG06	11/3/2022	39	T29127056	FL17	11/3/2022
20	T29127037	FG07	11/3/2022	40	T29127057	FL18	11/3/2022

This item has been electronically signed and sealed by Velez, Joaquin using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc. under my direct supervision

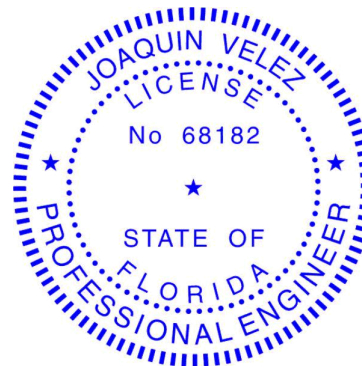
based on the parameters provided by Builders FirstSource - Plant City.

Truss Design Engineer's Name: Velez, Joaquin

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

Florida COA: 6634

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 03, 2022



RE: HR0009 -

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

Site Information:

Project Customer: K Hovnanian Homes Project Name: HR0009
Lot/Block: Bldg. 9 Subdivision: Hawk's Ridge
Address: 870-900 NE Trailside Run
City, County: Port St. Lucie State: FL

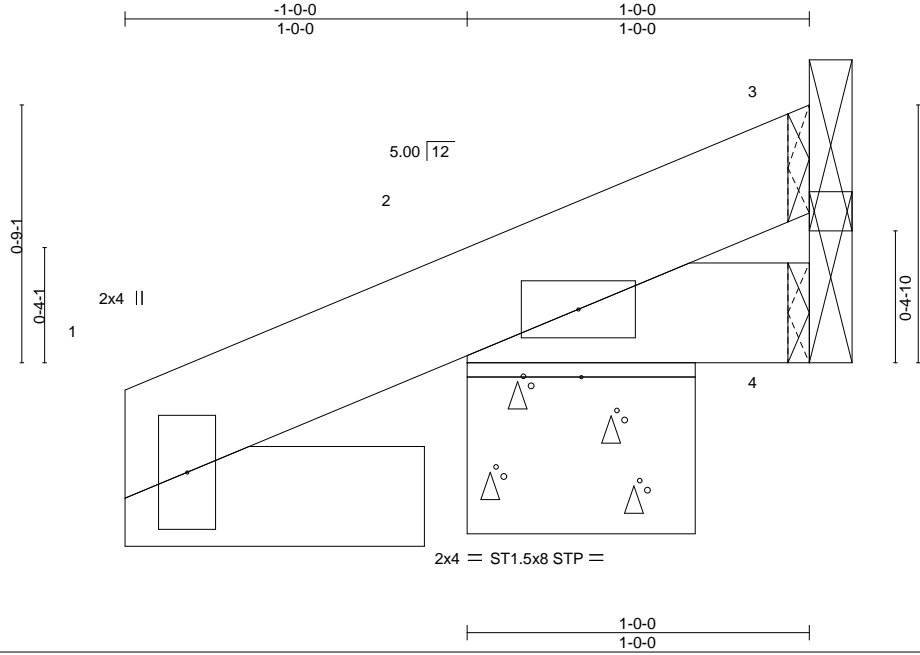
No.	Seal#	Truss Name	Date
41	T29127058	H7	11/3/2022
42	T29127059	HJ01	11/3/2022
43	T29127060	HJ2	11/3/2022
44	T29127061	HJ3	11/3/2022
45	T29127062	HJ04	11/3/2022
46	T29127063	T01	11/3/2022
47	T29127064	T02	11/3/2022
48	T29127065	T03	11/3/2022
49	T29127066	T04	11/3/2022
50	T29127067	T05	11/3/2022
51	T29127068	T06	11/3/2022
52	T29127069	T07	11/3/2022
53	T29127070	T08	11/3/2022
54	T29127071	T09	11/3/2022
55	T29127072	T10	11/3/2022
56	T29127073	T11	11/3/2022
57	T29127074	T12	11/3/2022
58	T29127075	T13	11/3/2022
59	T29127076	T14	11/3/2022
60	T29127077	T15	11/3/2022
61	T29127078	T16	11/3/2022
62	T29127079	T17	11/3/2022
63	T29127080	T18	11/3/2022
64	T29127081	T19	11/3/2022
65	T29127082	T20	11/3/2022
66	T29127083	T21	11/3/2022
67	T29127084	T22	11/3/2022
68	T29127085	V01	11/3/2022
69	T29127086	V02	11/3/2022
70	T29127087	V07	11/3/2022
71	T29127088	V08	11/3/2022
72	T29127089	V09	11/3/2022
73	T29127090	V10	11/3/2022
74	T29127091	V11	11/3/2022
75	T29127092	V12	11/3/2022
76	T29127093	V13	11/3/2022
77	T29127094	V14	11/3/2022
78	T29127095	V15	11/3/2022

Job	Truss	Truss Type	Qty	Ply	
HR0009	C1	Corner Jack	8	1	T29127018

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:39 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-sAN19AAKwxGt?PDbpuRAJi3NOx_mMyWI9q8OtyNBs_



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.17	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.01	Vert(CT)	-0.00	2	>999	180		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 6 lb	FT = 20%
	Code FBC2020/TPI2014								

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=72(LC 12)
Max Uplift 3=14(LC 1), 2=191(LC 12)
Max Grav 3=33(LC 12), 2=202(LC 1), 4=18(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) 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 100 lb uplift at joint(s) 3 except (jt=lb) 2=191.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022

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

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

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



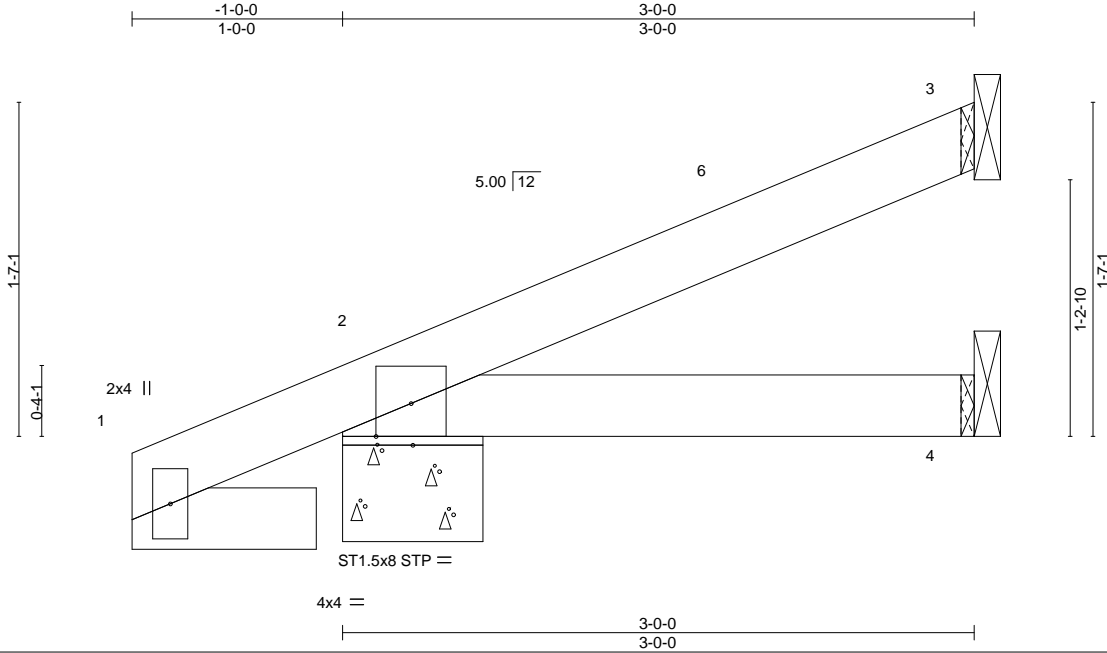
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	C3	Corner Jack	8	1	T29127019

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:40 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-KNxQMWBvYhF37U9_Q9XPgjWFCroFRVpCf_pZhvKyNBz



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.25	Vert(LL)	-0.00	2-4	>999	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.13	Vert(CT)	-0.01	2-4	>999		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 12 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=129(LC 12)
Max Uplift 3=65(LC 12), 2=-217(LC 12)
Max Grav 3=86(LC 1), 2=294(LC 1), 4=52(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=217.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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

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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



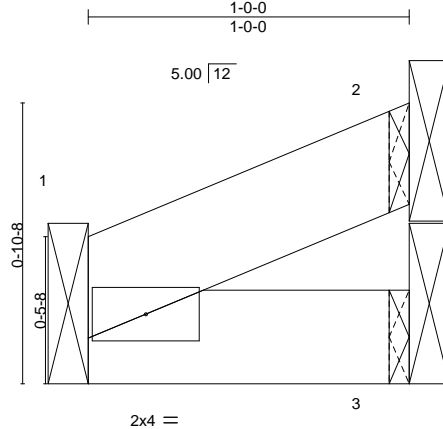
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	CJ01	Corner Jack	16	1	T29127021

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:41 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-pZVoasCaSZB_6JZciEwvFknQnCdQEGSoDTJFRmyNBry



Scale = 1:7.2

LOADING (psf)	SPACING-	2'-0"-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.33	TC 0.04	Vert(LL)	-0.00	1	>999	240	MT20
TCDL 15.0	Lumber DOL	1.33	BC 0.02	Vert(CT)	-0.00	1	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	1	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						

Weight: 3 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 2=40(LC 12)
Max Uplift 1=-39(LC 12), 2=-19(LC 12)
Max Grav 1=54(LC 1), 2=44(LC 1), 3=20(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) 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" tall by 2'-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) 1, 2.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022

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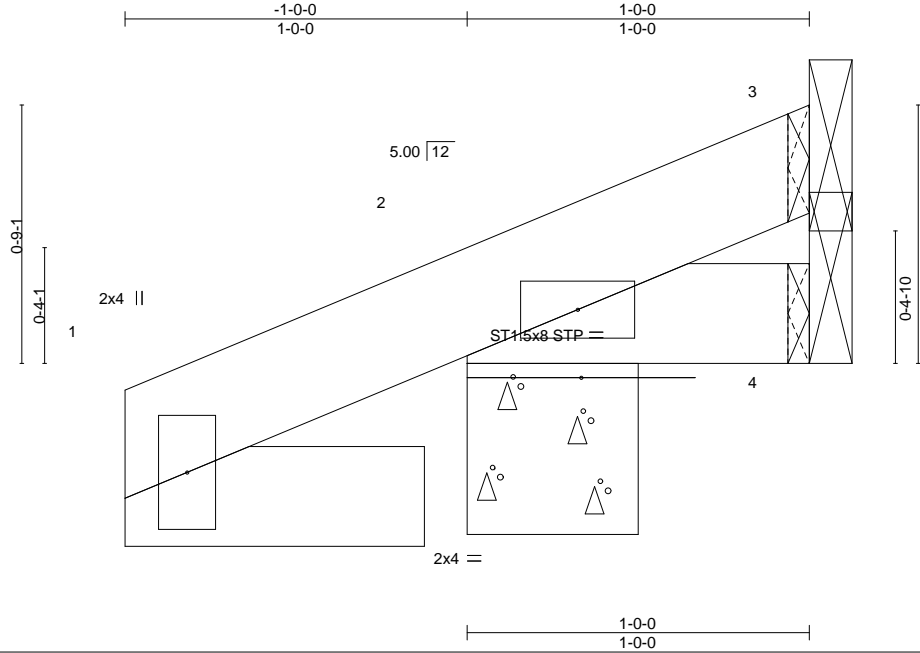
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	CJ1	Corner Jack	4	1	T29127022

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:42 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-HI3AnCDCCsJrkT8oGyS8oxKZibzhzjiyR72ozCyNBx



Scale = 1:6.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.16	Vert(LL)	-0.00	2	>999	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.01	Vert(CT)	-0.00	2	>999		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code FBC2020/TPI2014						Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-6-0, 4=Mechanical
Max Horz 2=72(LC 12)
Max Uplift 3=-11(LC 1), 2=-186(LC 12)
Max Grav 3=29(LC 12), 2=199(LC 1), 4=19(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) 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 100 lb uplift at joint(s) 3 except (jt=lb) 2=186.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	CJ3	Corner Jack	2	1	T29127023

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:43 2022 Page 1
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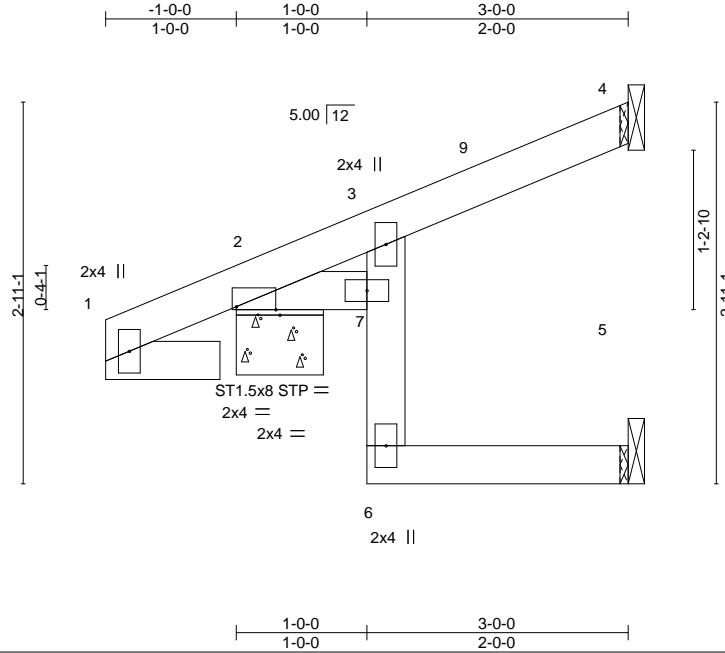


Plate Offsets (X,Y)-- [2:0-3-10,Edge]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0		Plate Grip DOL	1.33	TC 0.25		Vert(LL)	-0.01 7	>999	240	MT20	244/190
TCDL 15.0		Lumber DOL	1.33	BC 0.15		Vert(CT)	-0.01 6	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.01 5	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-R						Weight: 15 lb	FT = 20%

LUMBER-

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

REACTIONS. (size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 2=129(LC 12)
Max Uplift 4=60(LC 12), 2=217(LC 12)
Max Grav 4=87(LC 1), 2=294(LC 1), 5=40(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=217.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017

Date:

November 3,2022

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

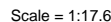
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MITek Industries, Inc. Wed Nov 2 15:26:43 2022 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=Mechanical, 5=Mechanical, 3=Mechanical
 Max Horz 5=69(LC 12)
 Max Uplift 2=-88(LC 12), 5=-5(LC 12), 3=-40(LC 12)
 Max Grav 2=107(LC 1), 5=131(LC 1), 3=48(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpI=0.18; MWFRS (directional) and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 3.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Date:

November 3, 2022



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

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



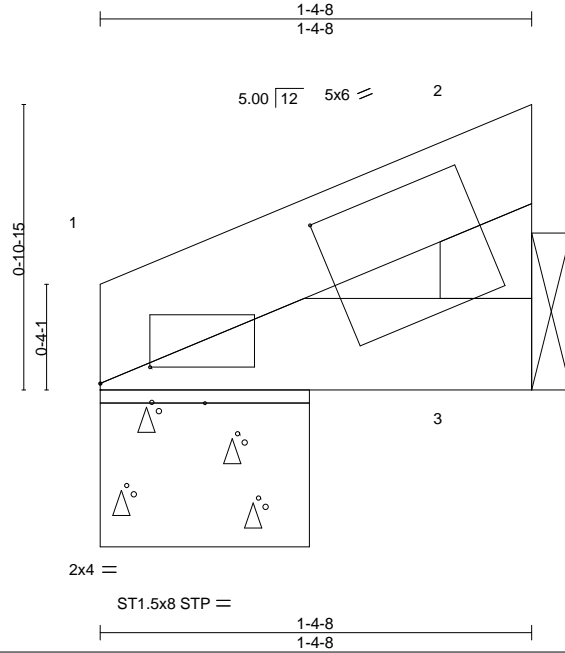
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	E2	Monopitch	12	1	T29127025

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8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:44 2022 Page 1

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Scale = 1:7.3

Plate Offsets (X,Y)-- [1:0-1-14,0-0-10], [2:0-9-12,0-2-8]

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.33	TC 0.05	Vert(LL)	-0.00	1	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL	1.33	BC 0.01	Vert(CT)	-0.00	1	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						Weight: 5 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 1-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-8-0, 3=Mechanical
Max Horz 1=38(LC 12)
Max Uplift 1=-23(LC 12), 3=-41(LC 12)
Max Grav 1=64(LC 1), 3=64(LC 1)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) 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 100 lb uplift at joint(s) 1, 3.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017

Date:

November 3,2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	E7	Jack-Open	38	1	T29127026

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8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:45 2022 Page 1

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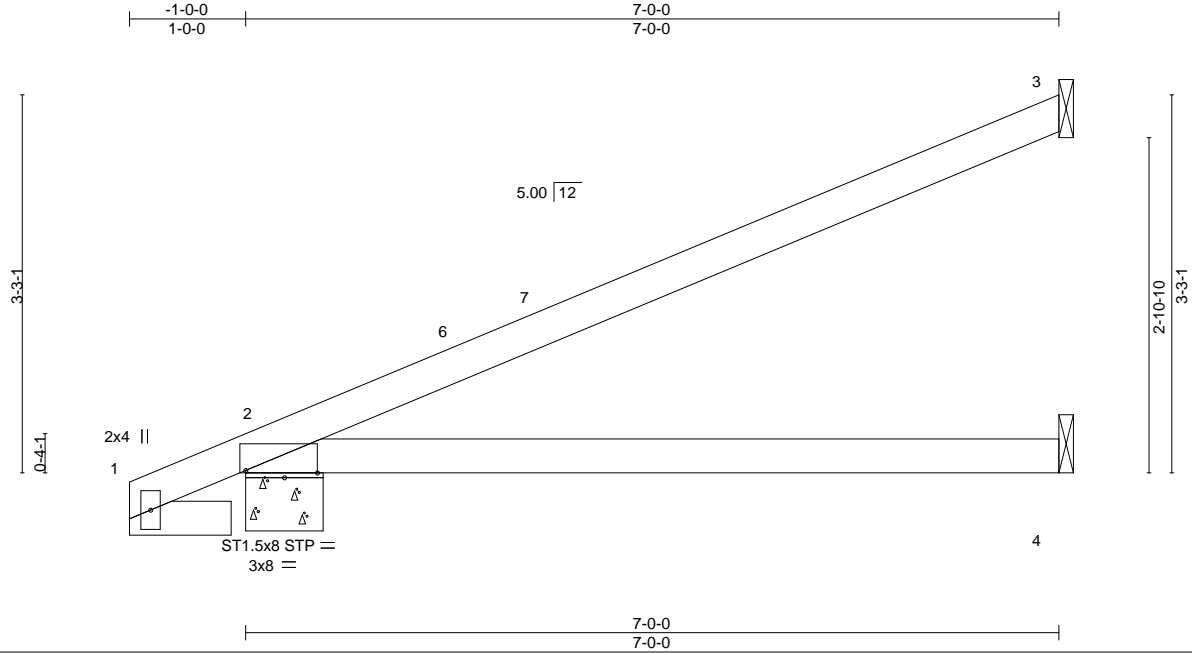


Plate Offsets (X,Y)-- [2:0-7-6,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.33	TC 0.93	Vert(LL)	0.17	2-4	>473	240	MT20	244/190
TCDL 15.0	Lumber DOL	1.33	BC 0.75	Vert(CT)	-0.21	2-4	>376	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-SH						Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=246(LC 12)
Max Uplift 3=-209(LC 12), 2=-283(LC 12), 4=-6(LC 12)
Max Grav 3=263(LC 1), 2=495(LC 1), 4=125(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=209, 2=283.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	EJ01	Monopitch	12	1	T29127027

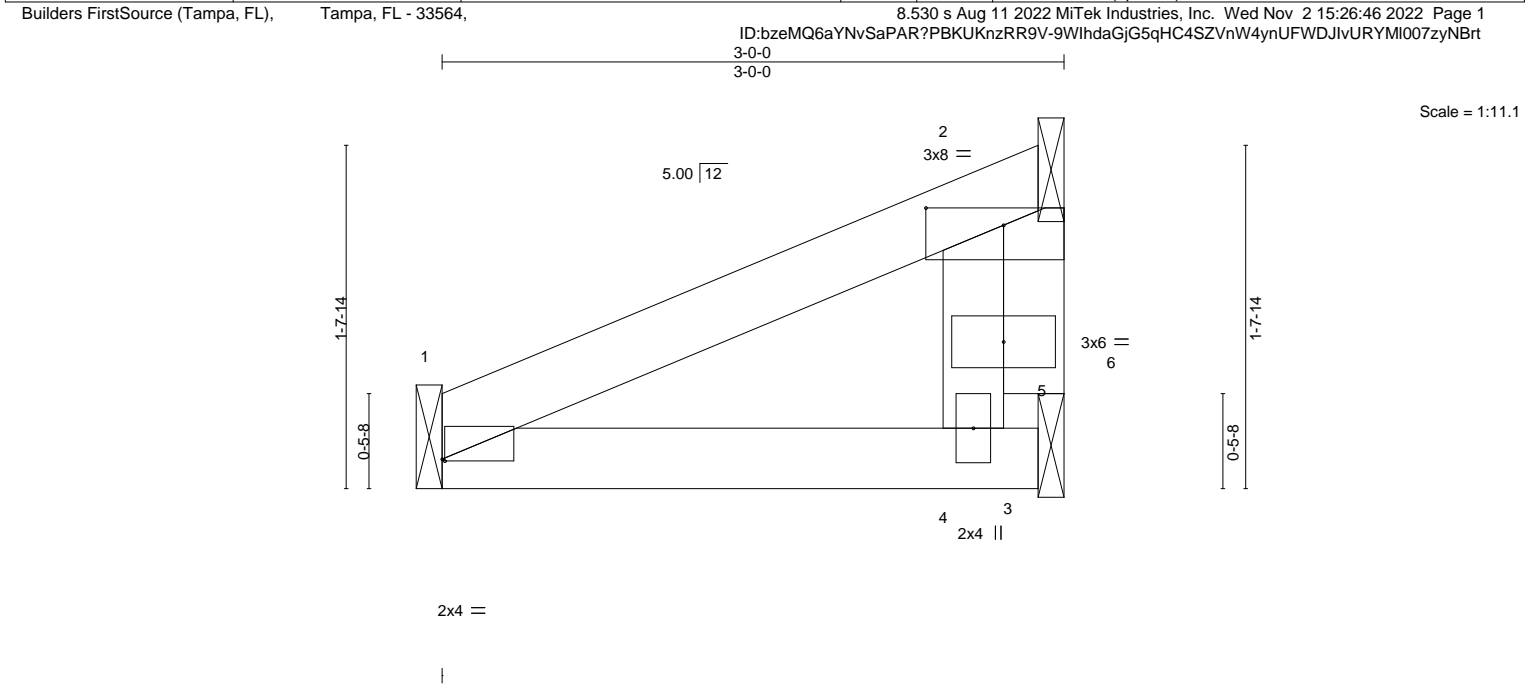


Plate Offsets (X,Y)--		[1:0-0-2,0-0-2], [2:0-4-8,0-1-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP		
TCLL	30.0	Plate Grip DOL	1.33	TC	0.17	Vert(LL)	-0.00	1-4	>999	240	MT20	244/190	
TCDL	15.0	Lumber DOL	1.33	BC	0.10	Vert(CT)	-0.00	1-4	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	1	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-R							Weight: 12 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS.		(size)	1=Mechanical, 2=Mechanical, 6=0-1-8
Max Horz		6=71(LC 9)	
Max Uplift		1=-62(LC 12), 2=-49(LC 12), 6=-38(LC 1)	
Max Grav		1=131(LC 1), 2=188(LC 1)	

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

- NOTES-** (10)
- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 6.
 - 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 10) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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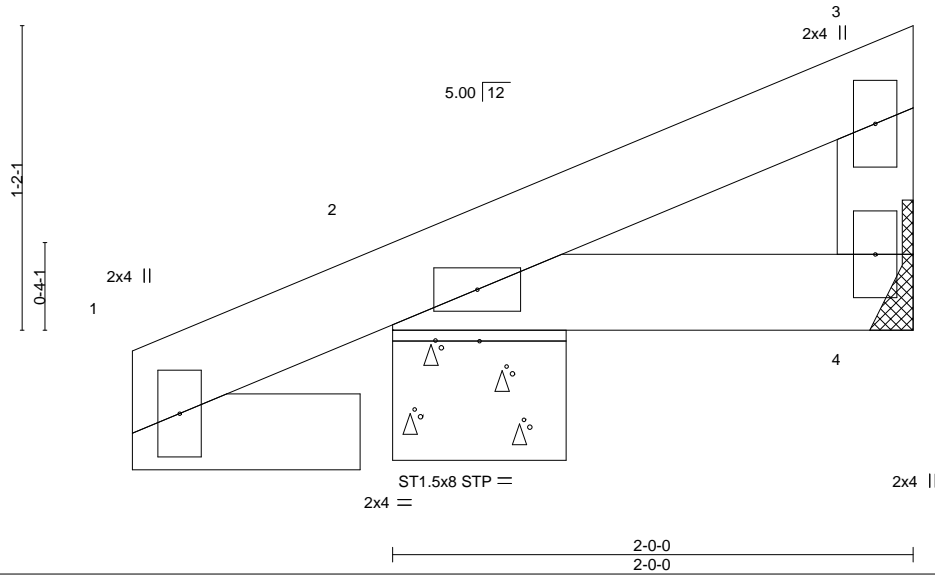
Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

Job	Truss	Truss Type	Qty	Ply	
HR0009	EJ02	Monopitch Structural Gable	12	1	T29127028

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.16	Vert(LL)	-0.00	2	>999	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.03	Vert(CT)	-0.00	2-4	>999		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 10 lb	FT = 20%
	Code FBC2020/TPI2014							

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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-8-0
Max Horz 2=97(LC 12)
Max Uplift 4=30(LC 9), 2=176(LC 12)
Max Grav 4=70(LC 17), 2=223(LC 1)

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

NOTES- (9)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCCL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) 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) 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 studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=176.
- 9) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	EJ3	Jack-Open	2	1	T29127029

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8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:48 2022 Page 1

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Scale = 1:19.0

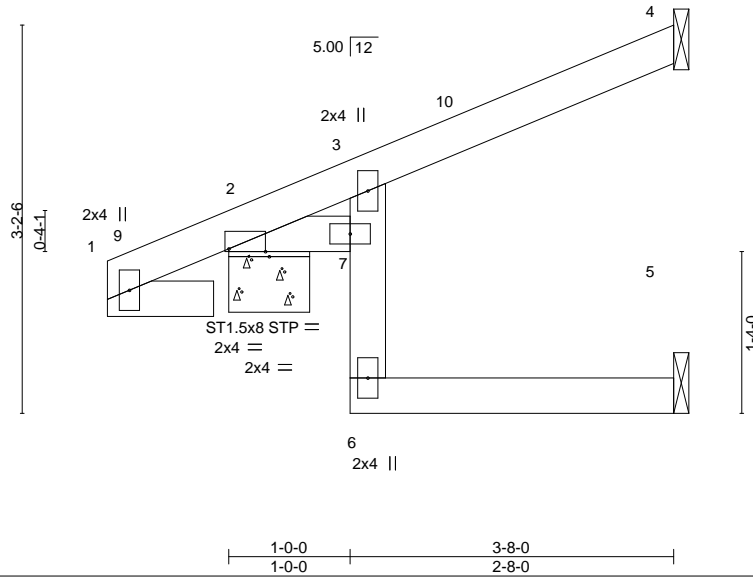


Plate Offsets (X,Y)-- [2:0-3-10,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d
TCLL	30.0	Plate Grip DOL	1.33	TC	0.26	Vert(LL)	0.02	6	>999
TCDL	15.0	Lumber DOL	1.33	BC	0.22	Vert(CT)	-0.02	6	>999
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	5	n/a
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-R					
								PLATES	GRIP
								MT20	244/190
								Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical
 Max Horz 2=148(LC 12)
 Max Uplift 4=87(LC 12), 2=224(LC 12), 5=1(LC 9)
 Max Grav 4=119(LC 1), 2=324(LC 1), 5=55(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=224.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 Date:

November 3,2022

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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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	EJ04	Monopitch Structural Gable	6	1	T29127030

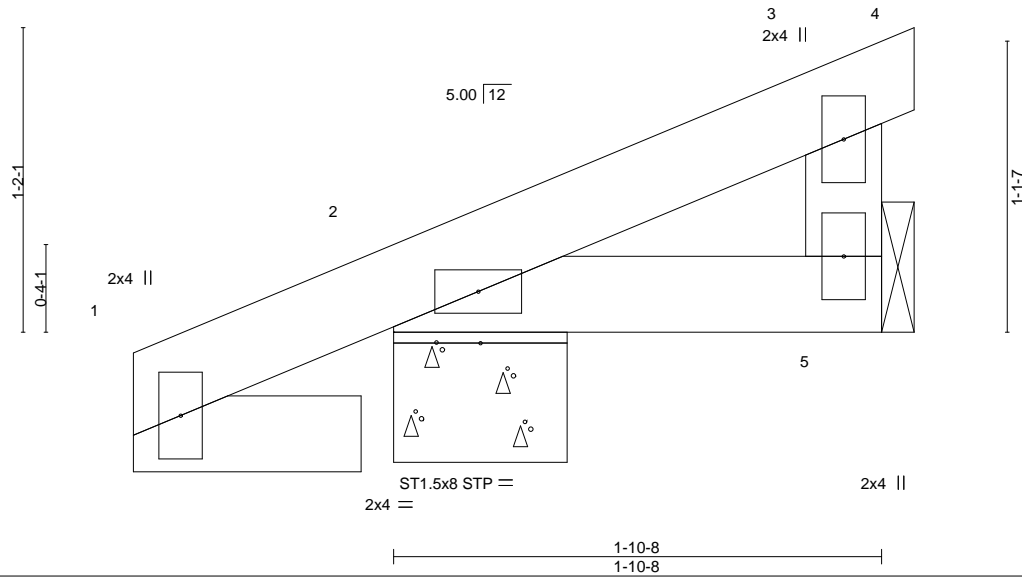
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:47 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-djs3qvGL1Py8qE1m3V1JV?1QOcggezHhbPmZfQyNBrs

-1-0-0 1-0-0 1-10-8 2-0-0 0-1-8

Scale = 1:8.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.16	Vert(LL)	-0.00	2	>999	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.03	Vert(CT)	-0.00	2	>999		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.04	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 10 lb	FT = 20%
	Code FBC2020/TPI2014							

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 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-8-0, 5=Mechanical
Max Horz 2=100(LC 12)
Max Uplift 2=-172(LC 12), 5=-38(LC 12)
Max Grav 2=218(LC 1), 5=70(LC 17)

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

NOTES- (9)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) 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) 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 studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=172.
- 9) *This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022

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

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

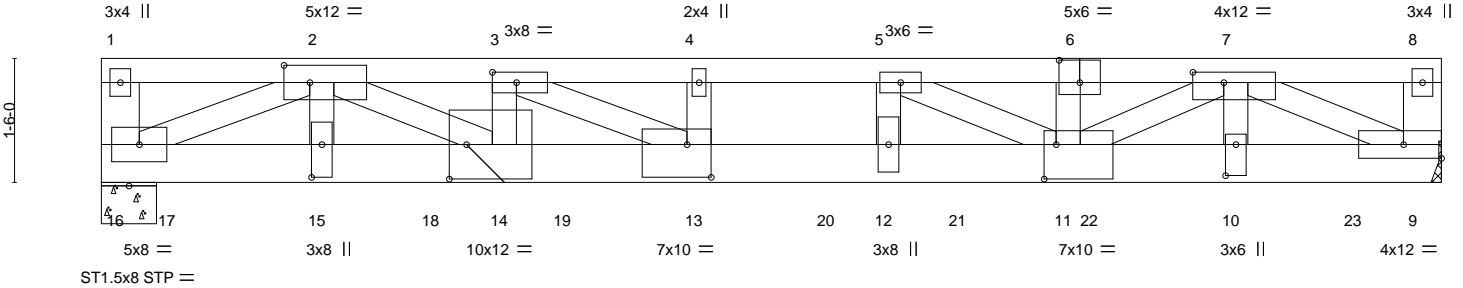


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG01	FLOOR	2	3	T29127031

Builders FirstSource (Tampa, FL),		Tampa, FL - 33564,		8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:50 2022 Page 1			
				ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-2IYCTxJEKKKihilLkdb07dfloqWor6U7HN_DGlyNBp			
2-8-0	4-10-8	7-4-8	9-4-8	9-8-6	11-8-5	13-8-11	16-2-8
2-8-0	2-2-8	2-6-0	2-0-0	0-3-14	2-0-0	2-0-5	2-5-13

Scale = 1:27.9



THIS TRUSS IS NOT SYMMETRIC. PROPER ORIENTATION IS ESSENTIAL.												
<div><div></div><div>2-8-0 2-8-0</div><div></div><div>4-10-8 2-2-8</div><div></div><div>7-4-8 2-6-0</div><div></div><div>9-4-8 2-0-0</div><div>9-8-6 0-3-14</div><div>11-8-5 2-0-0</div><div></div><div>13-8-11 2-0-5</div><div></div><div>16-2-8 2-5-13</div><div></div></div>												
Plate Offsets (X,Y)-- [2:0-3-12,0-2-8], [3:0-3-8,0-1-8], [6:0-3-0,0-3-4], [7:0-4-8,0-1-8], [10:0-4-8,0-1-8], [11:0-1-12,0-5-0], [13:0-3-8,0-4-12], [14:0-2-8,0-5-0], [15:0-4-12,0-1-8]												
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	0.92	Vert(LL)	-0.32	12-13	>597	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.51	12-13	>371	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.07	9	n/a	n/a		
BCDL	5.0	Code FBC2020/TPI2014		Matrix-SH							Weight: 275 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP M 31 *Except* 6-8: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-10-4 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.2 *Except* 1-16,8-9: 2x6 SP No.2, 2-15,3-14,6-11,4-13,5-12,7-10: 2x4 SP No.3	

REACTIONS.	(size) 16=0-8-0, 9=Mechanical Max Grav 16=8146(LC 1), 9=8064(LC 1)
-------------------	---

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-16=-366/0, 1-2=-1167/0, 2-3=-22812/0, 3-4=-26484/0, 4-5=-26484/0, 5-6=-21037/0, 6-7=-21049/0, 7-8=-1070/0, 8-9=-315/0	
BOT CHORD 15-16=0/14208, 14-15=0/14208, 13-14=0/22812, 12-13=0/26484, 11-12=0/26484, 10-11=0/13325, 9-10=0/13325	
WEBS 2-16=-14363/0, 2-15=0/1614, 3-14=-2077/0, 5-11=-6280/0, 7-11=0/8834, 5-12=0/2544, 3-13=0/4300, 7-10=0/1688, 7-9=-13693/0, 2-14=0/9657	

- NOTES-** (7)
- 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, 2x4 - 1 row at 0-4-0 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.
 - Unbalanced floor live loads have been considered for this design.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 409 lb down at 0-10-4, 1008 lb down at 0-10-4, 409 lb down at 2-5-6, 1007 lb down at 2-5-6, 409 lb down at 4-0-8, 1007 lb down at 4-0-8, 409 lb down at 5-7-10, 1007 lb down at 5-7-10, 409 lb down at 7-2-12, 1007 lb down at 7-2-12, 409 lb down at 8-9-14, 1007 lb down at 8-9-14, 409 lb down at 10-5-0, 1007 lb down at 10-5-0, 409 lb down at 12-0-2, 1007 lb down at 12-0-2, 409 lb down at 13-7-4, 1007 lb down at 13-7-4, and 409 lb down at 15-2-6, and 1008 lb down at 15-2-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

Job	Truss	Truss Type	Qty	Ply	T29127031
HR0009	FG01	FLOOR	2	3	Job Reference (optional)

Builders FirstSource (Tampa, FL),
Tampa, FL - 33564,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Nov 2 15:26:50 2022
Page 2
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LOAD CASE(S)
Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
- Vert: 1-8=-120, 9-16=-10
- Concentrated Loads (lb)
- Vert: 15=-1416(F=-409, B=-1007) 13=-1416(F=-409, B=-1007) 10=-1416(F=-409, B=-1007) 17=-1418(F=-409, B=-1008) 18=-1416(F=-409, B=-1007) 19=-1416(F=-409, B=-1007) 20=-1416(F=-409, B=-1007) 21=-1416(F=-409, B=-1007) 22=-1416(F=-409, B=-1007) 23=-1416(F=-409, B=-1008)


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16023 Swingley Ridge Rd

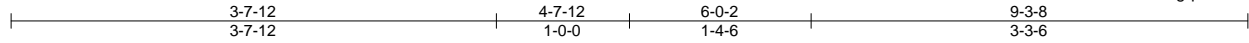
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG02	FLOOR	2	2	T29127032

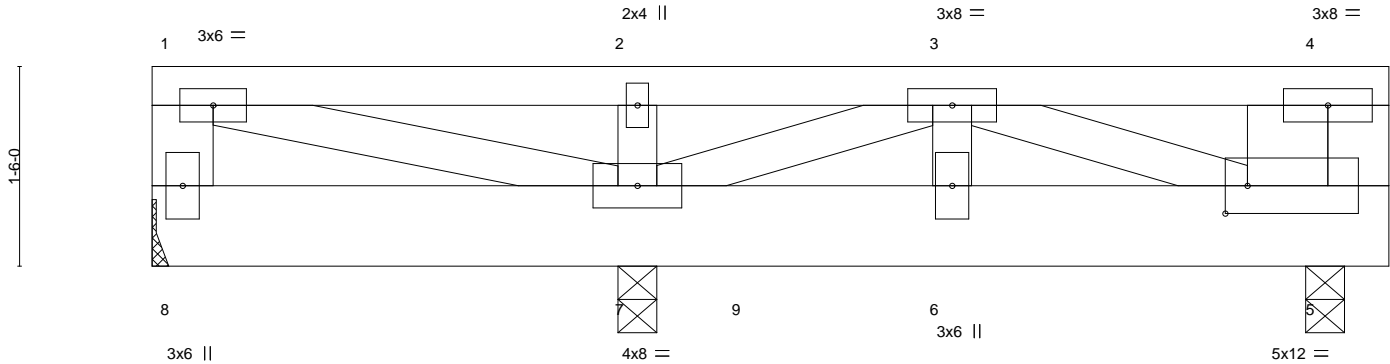
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:50 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-2IYCTxJEKKKihLkdb07dfxgqi0rKh7HN_DGlyNBp



Scale = 1:17.3



THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.

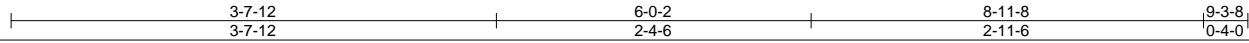


Plate Offsets (X,Y)-- [5:0-2-0,0-2-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.16	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.05	Vert(CT)	-0.00	6	>999	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014		Matrix-SH						Weight: 120 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 "Except"
1-8,4-5: 2x6 SP No.2, 4-5: 2x8 SP 2400F 2.0E

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.

(size) 8=Mechanical, 7=0-3-8, 5=0-3-8
Max Uplift 8=-21(LC 4)
Max Grav 8=131(LC 3), 7=1312(LC 1), 5=8426(LC 4)

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

BOT CHORD 6-7=0/455, 5-6=0/455
WEBS 2-7=-391/0, 3-7=-544/0, 3-5=-349/0

NOTES- (8)

- 2-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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 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.
- Unbalanced floor live loads have been considered for this design.
- 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) 8.
- 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) 675 lb down at 4-6-4, and 8046 lb down at 8-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-4=-120, 5-8=-10
Concentrated Loads (lb)
Vert: 5=-8046(B) 9=-675(F)

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Chesterfield, MO 63017
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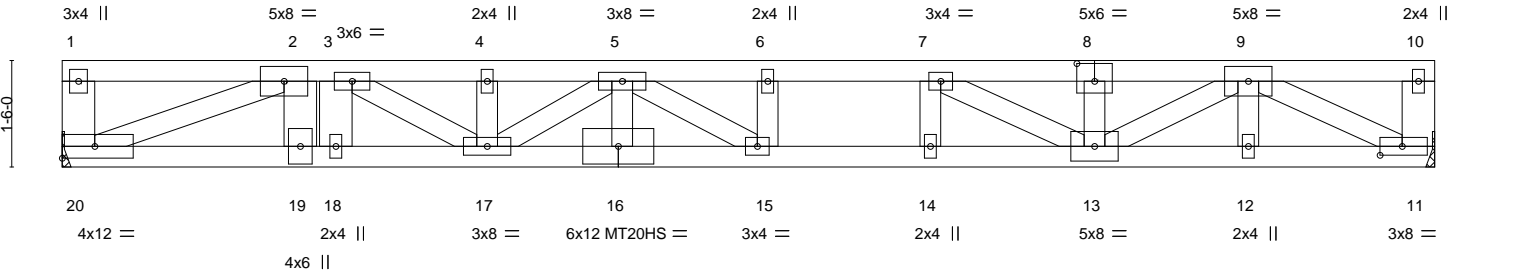


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG03	FLOOR	4	2	T29127033

Builders FirstSource (Tampa, FL),		Tampa, FL - 33564,		8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:51 2022 Page 1						
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-WU5agHks5dSZJrKXIK6FfrCxKEq9ad3HW1knoByNBro										
3-7-0	3-7-8	5-11-13	6-6-8	7-10-11	10-1-0	12-1-0	12-9-8	14-6-8	16-8-8	19-4-0
3-7-0	0-0-8	2-4-5	0-6-11	1-4-3	2-2-5	2-0-0	0-8-8	1-9-0	2-2-0	2-7-8

Scale = 1:32.5



THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.

3-7-0	3-7-8	5-11-13	7-10-11	9-8-0	10-1-0	12-1-0	14-6-8	16-8-8	19-4-0
3-7-0	0-0-8	2-4-5	1-10-13	1-9-5	0-5-0	2-0-0	2-5-8	2-2-0	2-7-8
Plate Offsets (X,Y)-- [8:0-3-0,0-3-0], [11:0-3-12,0-1-8]									

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.87	Vert(LL) -0.32	15-16	>701	360	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.89	Vert(CT) -0.53	15-16	>430	240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.70	Horz(CT) 0.08	11	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH						
							Weight: 194 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-20,10-11,3-18,2-19: 2x6 SP No.2, 2-20: 2x4 SP No.2	

REACTIONS.	(size) 20=Mechanical, 11=Mechanical Max Grav 20=3802(LC 1), 11=1738(LC 1)
------------	--

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-20=-276/0, 1-2=-338/0, 2-3=-9006/0, 3-4=-9432/0, 4-5=-9432/0, 5-6=-7866/0, 6-7=-7866/0, 7-8=-5218/0, 8-9=-5218/0
BOT CHORD	19-20=0/9006, 18-19=0/9006, 17-18=0/9006, 16-17=0/9389, 15-16=0/9372, 14-15=0/7866, 13-14=0/7866, 12-13=0/3124, 11-12=0/3124
WEBS	2-20=-9292/0, 7-14=0/736, 6-15=0/306, 9-11=-3362/0, 9-13=0/2398, 7-13=-3146/0, 4-17=-280/0, 5-16=0/425, 3-17=0/570, 5-15=-2078/0, 2-19=0/3038

- NOTES-** (8)
- 2-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, 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-2-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, Except member 2-19 2x6 - 2 rows staggered at 0-2-0 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 floor live loads have been considered for this design.
 - All plates are MT20 plates 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3086 lb down at 3-7-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-10=-120, 11-20=-10

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

Job	Truss	Truss Type	Qty	Ply	T29127033
HR0009	FG03	FLOOR	4	2	Job Reference (optional)

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:51 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-WU5agHKs5dSZJrKXIK6FfrCxKEq9ad3HW1knoByNBro

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 19=-3086(F)

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG04	FLOOR	2	2	T29127034

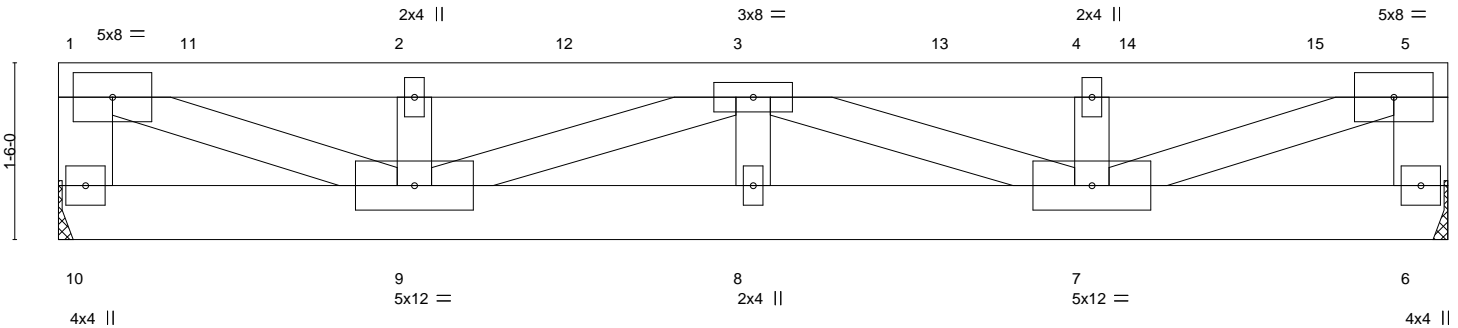
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:52 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-_gfyudKUsxaQw?vjs2dUC2k7xdG7J3FQkhTKKdyNBn



Scale = 1:19.6



	3-0-4	5-10-12	8-9-4	11-9-8	
	3-0-4	2-10-8	2-10-8	3-0-4	
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.46	Vert(LL) -0.10 8 >999 360		
BCLL 0.0	Lumber DOL 1.00	WB 0.76	Vert(CT) -0.16 8 >829 240		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.02 6 n/a n/a		
	Code FBC2020/TPI2014			Weight: 135 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
1-10,5-6: 2x6 SP No.2, 1-9,5-7: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 10=Mechanical, 6=Mechanical
Max Grav 10=3096(LC 1), 6=3184(LC 1)

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

TOP CHORD 1-10=-2667/0, 1-2=-5621/0, 2-3=-5621/0, 3-4=-5581/0, 4-5=-5581/0, 5-6=-2760/0
BOT CHORD 9-10=0/602, 8-9=0/8093, 7-8=0/8093, 6-7=0/631
WEBS 1-9=0/5412, 2-9=-1584/0, 3-9=-2654/0, 3-8=0/306, 3-7=-2697/0, 4-7=-1531/0, 5-7=0/5337

NOTES- (6)

- 2-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, 2x4 - 1 row at 0-5-0 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 687 lb down at 1-2-6, 687 lb down at 2-9-8, 687 lb down at 4-4-10, 687 lb down at 5-11-12, 687 lb down at 7-6-14, and 687 lb down at 9-2-0, and 687 lb down at 10-9-2 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- *This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.*

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-5=-120, 6-10=-10
Concentrated Loads (lb)
Vert: 2=-687(B) 3=-687(B) 11=-687(B) 12=-687(B) 13=-687(B) 14=-687(B) 15=-687(B)

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Joaquin Velez PE No.68182
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Date:

November 3,2022

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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

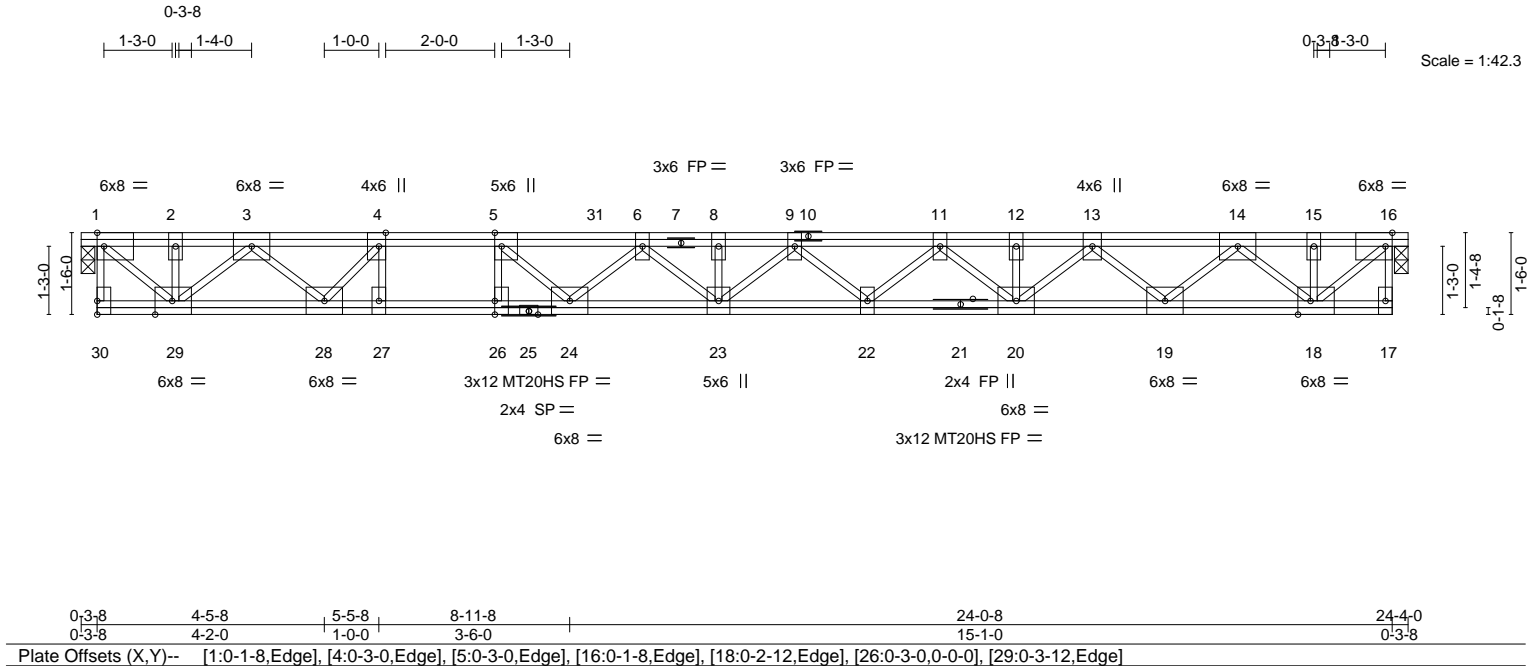


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG05	Floor Girder	4	1	T29127035

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:54 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-w3niJmKOYq8AJ36zTfyHTqTGRtrnvdc?yRPWyNBrl



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.83	Vert(LL) -0.36 23 >782 360	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.82	Vert(CT) -0.59 23 >478 240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.96	Horz(CT) -0.09 16 n/a n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH		Weight: 194 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 1=0-3-0, 16=0-3-0
Max Grav 1=1409(LC 1), 16=1435(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1496/0, 2-3=-1496/0, 3-4=-3917/0, 4-5=-5381/0, 5-6=-6474/0, 6-8=-6842/0, 8-9=-6842/0, 9-11=-6470/0, 11-12=-5473/0, 12-13=-5473/0, 13-14=-3827/0, 14-15=-1492/0, 15-16=-1492/0
BOT CHORD 28-29=0/2718, 27-28=0/5381, 26-27=0/5381, 23-24=0/7046, 22-23=0/6798, 20-22=0/6108, 19-20=0/4761, 18-19=0/2867
WEBS 1-29=0/2022, 16-18=0/2016, 3-29=-1639/0, 3-28=0/1643, 14-18=-1846/0, 14-19=0/1315, 13-19=-1281/0, 13-20=0/956, 11-20=-852/0, 11-22=0/497, 9-22=-449/0, 6-23=-417/0, 6-24=-842/0, 5-24=0/1609, 4-27=0/1168, 4-28=-2269/0, 5-26=-1013/0

- NOTES-** (9)
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - The Fabrication Tolerance at joint 25 = 11%, joint 25 = 20%
 - 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.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 329 lb down at 9-5-4, and 169 lb down at 21-0-12 on top 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).
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-30=-8, 1-16=-96
Concentrated Loads (lb)
Vert: 14=-118(B) 31=-278(B)

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Date:

November 3,2022

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG06	Floor Girder	2	1	T29127036

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:55 2022 Page 1
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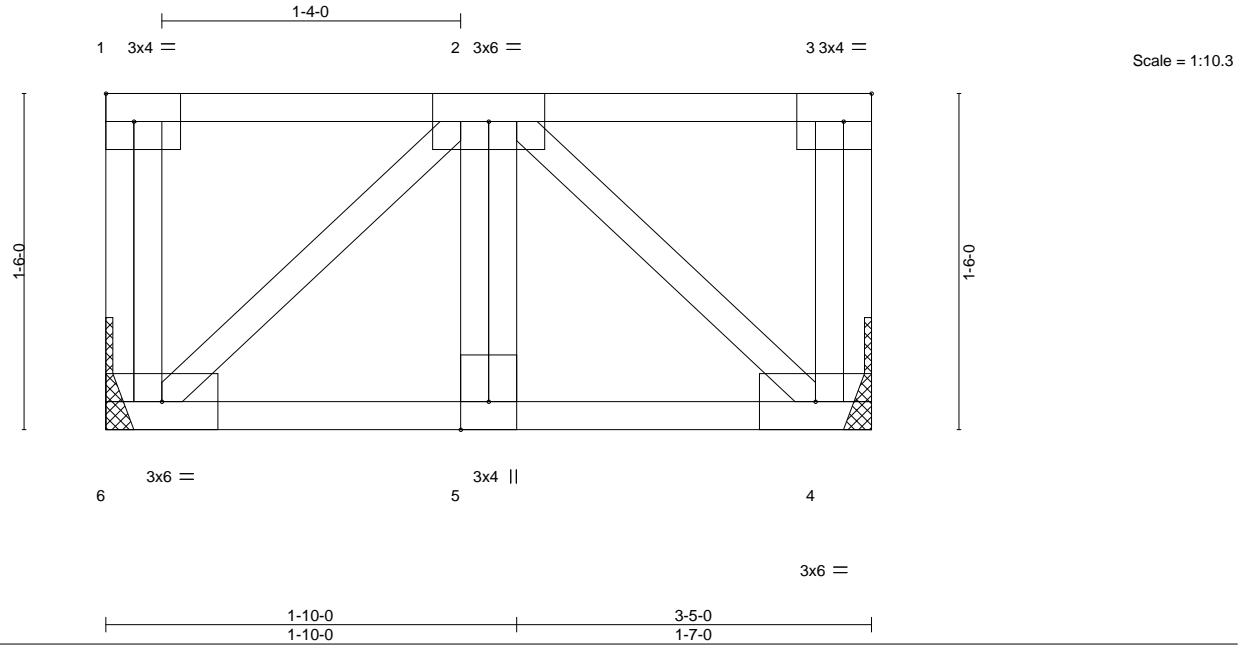


Plate Offsets (X,Y)-- [3:0-1-8,Edge]		1-10-0 1-10-0		3-5-0 1-7-0	
LOADING (psf)	SPACING-	1-7-2	CSI.	DEFL.	PLATES GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.16	in (loc) l/defl L/d	MT20 244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.11	Vert(LL) -0.00 5 >999 360	
BCLL 0.0	Rep Stress Incr	NO	WB 0.11	Vert(CT) -0.00 5 >999 240	
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-P	Horz(CT) 0.00 4 n/a n/a	
				Weight: 27 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Grav 6=354(LC 1), 4=354(LC 1)

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

BOT CHORD 5-6=0/332, 4-5=0/332
WEBS 2-6=440/0, 2-4=440/0

NOTES- (5)

- 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.
- 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 380 lb down at 1-8-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 5) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-6=-8, 1-3=-96
Concentrated Loads (lb)
Vert: 2=-380(F)

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG07	Floor Girder	2	1	T29127037

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8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:56 2022 Page 1
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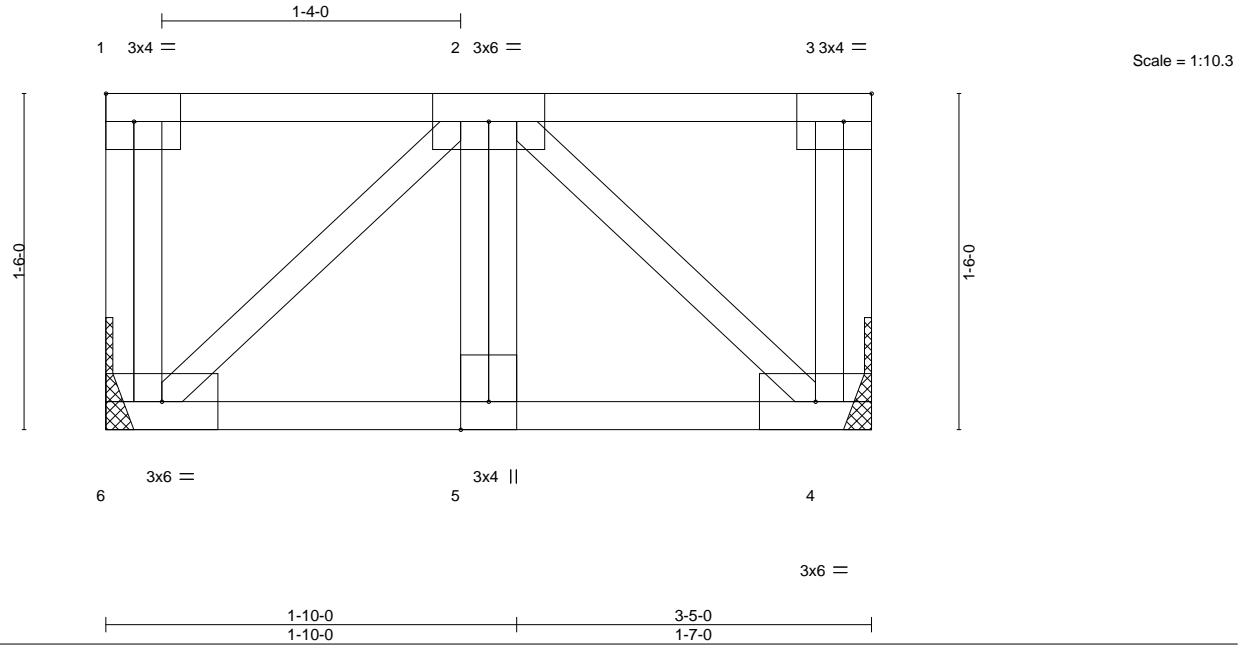


Plate Offsets (X,Y)-- [3:0-1-8,Edge]		1-10-0 1-10-0		3-5-0 1-7-0	
LOADING (psf)	SPACING-	1-7-2	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.17	Vert(LL)	-0.00 5 >999 360
TCDL 20.0	Lumber DOL	1.00	BC 0.06	Vert(CT)	-0.00 5 >999 240
BCLL 0.0	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00 4 n/a n/a
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-P		
				PLATES	GRIP
				MT20	244/190
				Weight: 27 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Grav 6=194(LC 1), 4=194(LC 1)

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

NOTES- (5)

- 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.
- 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down at 1-8-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 5) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 4-6=-8, 1-3=-96
Concentrated Loads (lb)
Vert: 2=-61(B)

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16023 Swingley Ridge Rd.
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



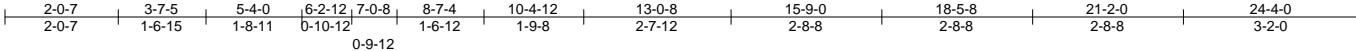
16023 Swingley Ridge Rd
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Job	Truss	Truss Type	Qty	Ply	
HR0009	FG08	FLAT GIRDER	2	3	T29127038

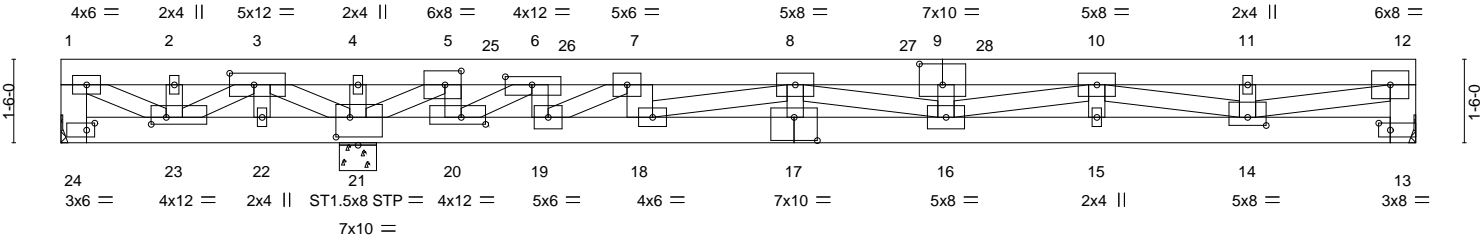
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:58 2022 Page 1

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Scale = 1:41.4



FASTEN TRUSS TO BEARING FOR THE GRAVITY UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

THIS TRUSS IS NOT SYMMETRIC. PROPER ORIENTATION IS ESSENTIAL.

Plate Offsets (X,Y)--	[3:0-5-4,0-2-8], [5:0-3-8,0-3-0], [6:0-5-12,0-1-12], [9:0-5-0,0-4-8], [13:0-2-8,0-1-8], [14:0-4-0,0-1-12], [17:0-5-0,0-5-0], [20:0-5-4,0-1-8], [21:0-3-0,0-4-4], [23:0-3-4,0-1-8], [24:0-1-12,0-1-8]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.98	Vert(LL) -0.21	17	>999	360	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.60	Vert(CT) -0.35	17	>645	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.99	Horz(CT) 0.03	13	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH	Wind(LL) 0.16	17	>999	240	Weight: 472 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP M 26	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-24,12-13,7-18: 2x6 SP No.2 12-14,10-14,10-16,8-18,8-16: 2x4 SP No.3	

REACTIONS.	(size)
Max Uplift 21=7201(LC 4), 24=1657(LC 1), 13=803(LC 5)	21=0-8-0, 24=Mechanical, 13=Mechanical
Max Grav 21=24330(LC 1), 24=709(LC 5), 13=2411(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-24=648/1550, 1-2=-1799/5203, 2-3=-1799/5203, 3-4=-6961/22326, 4-5=-6961/22326, 5-6=-2551/7789, 6-7=-7022/2150, 7-8=-17446/5485, 8-9=-13892/4491, 9-10=-13874/4483, 10-11=-5504/1816, 11-12=-5504/1816, 12-13=-2165/732
BOT CHORD	23-24=-361/148, 22-23=-13982/4516, 21-22=-13982/4516, 20-21=-7789/2551, 19-20=-2150/7022, 18-19=-5485/17446, 17-18=-5387/16861, 16-17=-5386/16855, 15-16=-3329/10179, 14-15=-3329/10179, 13-14=-232/696
WEBS	4-21=-6061/1753, 2-23=-2753/783, 1-23=-5590/1906, 3-21=-9750/2862, 7-18=-810/527, 5-20=-2433/7722, 7-19=-12057/3962, 5-21=-17027/5165, 8-17=-73/319, 9-16=-295/129, 12-14=-1691/5132, 10-14=-5009/1621, 10-16=-1293/3959, 8-18=-259/654, 8-16=-3175/1116, 3-22=-1991/601, 3-23=-3257/10524, 6-19=-2169/6647, 6-20=-17801/5542

NOTES-

(13)

1) 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.

Webs connected as follows: 2x4 - 1 row at 0-7-0 oc, Except member 2-23 2x4 - 1 row at 0-9-0 oc, member 1-23 2x4 - 1 row at 0-9-0 oc, member 21-3 2x4 - 1 row at 0-9-0 oc, member 5-20 2x4 - 1 row at 0-9-0 oc, member 7-19 2x4 - 1 row at 0-9-0 oc, member 8-17 2x4 - 1 row at 0-9-0 oc, member 9-16 2x4 - 1 row at 0-9-0 oc, member 10-15 2x4 - 1 row at 0-9-0 oc, member 11-14 2x4 - 1 row at 0-9-0 oc, member 12-14 2x4 - 1 row at 0-9-0 oc, member 10-14 2x4 - 1 row at 0-9-0 oc, member 10-16 2x4 - 1 row at 0-9-0 oc, member 18-8 2x4 - 1 row at 0-9-0 oc, member 8-16 2x4 - 1 row at 0-9-0 oc, member 3-22 2x4 - 1 row at 0-9-0 oc, member 23-3 2x4 - 1 row at 0-9-0 oc, member 6-19 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60

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.

electronically signed and sealed by Velez, Joaquin, PE using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182

MITek Inc. DBA MITek USA FL Cert 6634

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Date:

November 3,2022

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

Continued on page 2

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG08	FLAT GIRDER	2	3	T29127038

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:58 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-pq1D8gPFRnKaewMtCJkuRJ_5s2HKjjCJ7dweYHyNBhr

NOTES- (13)

- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=7201, 24=1657, 13=803.
- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6207 lb down and 2277 lb up at 10-4-12 on top chord, and 280 lb down at 10-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-7=-1609, 7-12=-120, 18-24=-45(F=-35), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-6207 18=-280(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-7=-1377, 7-12=-100, 18-24=-40(F=-30), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-5252 18=-249(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-893, 7-12=-40, 18-24=-49(F=-19), 13-18=-30
Concentrated Loads (lb)
Vert: 7=-3342 18=-171(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-25=450, 7-25=447, 7-27=51, 12-27=31, 18-24=7(F=13), 13-18=-6
Concentrated Loads (lb)
Vert: 7=2277 18=-105(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-26=427, 7-26=447, 7-28=51, 12-28=54, 18-24=7(F=13), 13-18=-6
Concentrated Loads (lb)
Vert: 7=2277 18=-105(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-804, 7-12=-42, 18-24=-27(F=-17), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-2938 18=-102(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-804, 7-12=-42, 18-24=-27(F=-17), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-2938 18=-102(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=432, 7-12=52, 18-24=6(F=12), 13-18=-6
Concentrated Loads (lb)
Vert: 7=2203 18=-105(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=52, 7-12=19, 18-24=-2(F=4), 13-18=-6
Concentrated Loads (lb)
Vert: 7=643 18=-105(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-804, 7-12=-42, 18-24=-27(F=-17), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-2938 18=-102(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-804, 7-12=-42, 18-24=-27(F=-17), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-2938 18=-102(F)
- 12) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-7=-680, 7-12=-40, 18-24=-23(F=-13), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-2387 18=-157(F)
- 13) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG08	FLAT GIRDER	2	3	T29127038

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:58 2022 Page 3
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-pq1D8gPFRnKaewMtCJkuRJ_5s2HKjjCJ7dweYHyNBBrh

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-7=-1470, 7-12=-101, 18-24=-42(F=-32), 13-18=-10
- Concentrated Loads (lb)
Vert: 7=-5665 18=-102(F)
- 14) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-1470, 7-12=-101, 18-24=-42(F=-32), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-5665 18=-102(F)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-1470, 7-12=-101, 18-24=-42(F=-32), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-5665 18=-102(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-1470, 7-12=-101, 18-24=-42(F=-32), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-5665 18=-102(F)
- 17) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-25=450, 7-25=447, 7-27=51, 12-27=31, 18-24=7(F=13), 13-18=-6
Concentrated Loads (lb)
Vert: 7=2277 18=-172(F)
- 18) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-26=427, 7-26=447, 7-28=51, 12-28=54, 18-24=7(F=13), 13-18=-6
Concentrated Loads (lb)
Vert: 7=2277 18=-172(F)
- 19) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-804, 7-12=-42, 18-24=-27(F=-17), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-2938 18=-169(F)
- 20) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-804, 7-12=-42, 18-24=-27(F=-17), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-2938 18=-169(F)
- 21) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=432, 7-12=52, 18-24=6(F=12), 13-18=-6
Concentrated Loads (lb)
Vert: 7=2203 18=-172(F)
- 22) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=52, 7-12=19, 18-24=-2(F=4), 13-18=-6
Concentrated Loads (lb)
Vert: 7=643 18=-172(F)
- 23) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-804, 7-12=-42, 18-24=-27(F=-17), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-2938 18=-169(F)
- 24) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-804, 7-12=-42, 18-24=-27(F=-17), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-2938 18=-169(F)
- 25) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-1470, 7-12=-101, 18-24=-42(F=-32), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-5665 18=-235(F)
- 26) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-1470, 7-12=-101, 18-24=-42(F=-32), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-5665 18=-235(F)
- 27) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-1470, 7-12=-101, 18-24=-42(F=-32), 13-18=-10
Concentrated Loads (lb)
Vert: 7=-5665 18=-235(F)

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG08	FLAT GIRDER	2	3	T29127038

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:58 2022 Page 4
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-pq1D8gPFRnKaewMtCJkuRJ_5s2HKjjCJ7dweYHyNBBrh

LOAD CASE(S) Standard

28) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-1470, 7-12=-101, 18-24=-42(F=-32), 13-18=-10

Concentrated Loads (lb)

Vert: 7=-5665 18=-235(F)

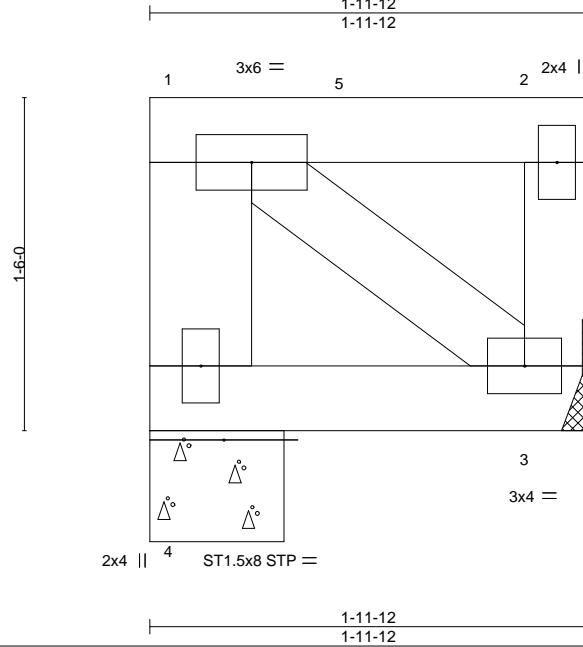


Job	Truss	Truss Type	Qty	Ply	
HR0009	FG09	FLAT GIRDER	2	2	T29127039

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:59 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-H0abMQQtC5SRG4x3m0F7_XXSWSmjSPvSLHgC4jyNBrg



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.22	Vert(LL)	-0.00	4	>999	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT)	-0.00	4	>999		
BCLL 0.0 *	Lumber DOL 1.00	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-P	Wind(LL)	0.00	4	****	Weight: 23 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-4: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=0-7-4, 3=Mechanical
Max Uplift 4=-95(LC 8)
Max Grav 4=588(LC 1), 3=288(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-580/694, 2-3=-280/227

NOTES-

- 2-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, 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.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 4.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 293 lb down and 456 lb up at 0-2-12, and 198 lb down and 308 lb up at 1-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S)

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FG09	FLAT GIRDER	2	2	T29127039

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:59 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-H0abM0QtC5SRG4x3m0F7_XXSWSmjSPvSLHgC4jyNBrg

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-230, 3-4=-10
Concentrated Loads (lb)
Vert: 1=-293 5=-198
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-210, 3-4=-10
Concentrated Loads (lb)
Vert: 1=-248 5=-168
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-30
Concentrated Loads (lb)
Vert: 1=-158 5=-107
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=98, 3-4=-6
Concentrated Loads (lb)
Vert: 1=456 5=308
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=98, 3-4=-6
Concentrated Loads (lb)
Vert: 1=456 5=308
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-181, 3-4=-10
Concentrated Loads (lb)
Vert: 1=-182 5=-123
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-181, 3-4=-10
Concentrated Loads (lb)
Vert: 1=-182 5=-123
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-56, 3-4=-6
Concentrated Loads (lb)
Vert: 1=107 5=73
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-56, 3-4=-6
Concentrated Loads (lb)
Vert: 1=107 5=73
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-152, 3-4=-10
Concentrated Loads (lb)
Vert: 1=-139 5=-94
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-152, 3-4=-10
Concentrated Loads (lb)
Vert: 1=-139 5=-94
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 3-4=-6
Concentrated Loads (lb)
Vert: 1=104 5=70
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-91, 3-4=-6
Concentrated Loads (lb)
Vert: 1=30 5=21
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-152, 3-4=-10
Concentrated Loads (lb)
Vert: 1=-139 5=-94
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-152, 3-4=-10
Concentrated Loads (lb)
Vert: 1=-139 5=-94

Continued on page 3

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127039
HR0009	FG09	FLAT GIRDER	2	2	Job Reference (optional)

Builders FirstSource (Tampa, FL),
Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:26:59 2022 Page 3
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-H0abM0QtC5SRG4x3m0F7_XXSWSmjSPvSLHgC4jyNBrg

- LOAD CASE(S) Standard

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-2=-150, 3-4=-10

Concentrated Loads (lb)

Vert: 1=-113 5=-76

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-211, 3-4=-10

Concentrated Loads (lb)

Vert: 1=-267 5=-181

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-211, 3-4=-10

Concentrated Loads (lb)

Vert: 1=-267 5=-181

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-211, 3-4=-10

Concentrated Loads (lb)

Vert: 1=-267 5=-181

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-211, 3-4=-10

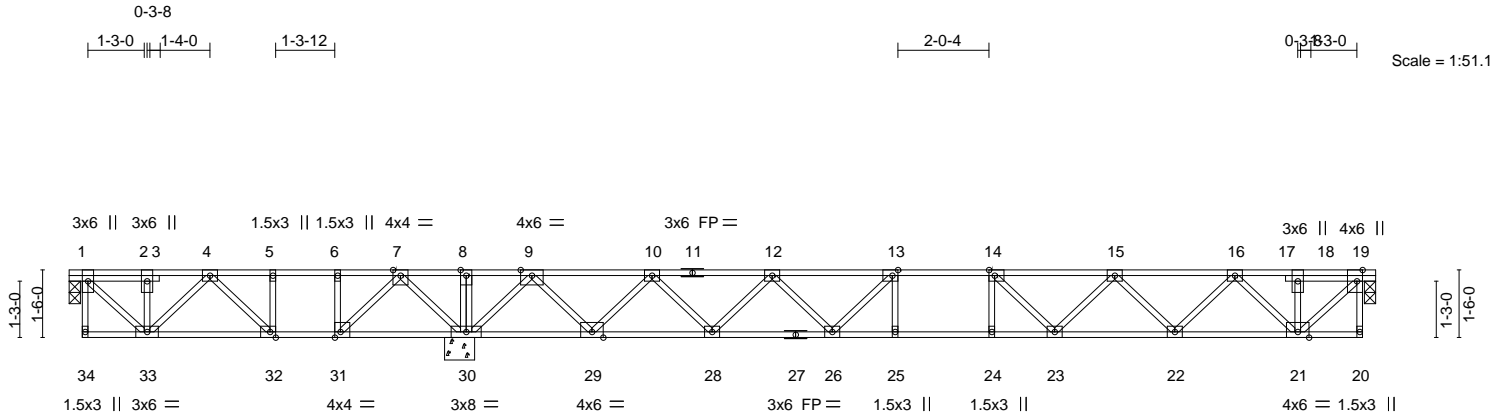
Concentrated Loads (lb)

Vert: 1=-267 5=-181

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL01	Floor	4	1	T29127040

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:01 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-DPiMmiR7kii8WO5StRHb3yceLGFTwAHlpb9l8cyNBre



0-3-8	8-8-0	8-9-12	28-8-8	29-0-0
0-3-8	8-4-8	0-1-12	19-10-12	0-3-8
Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [19:0-3-0,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]				
LOADING (psf)	SPACING-	1-7-2	CSL	DEFL.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.84	in (loc) l/defl L/d
TCDL 20.0	Lumber DOL	1.00	BC 0.89	Vert(LL) -0.18 24 >999 360
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Vert(CT) -0.29 24 >811 240
BCDL 5.0	Code FBC2020/TPI2014		Matrix-SH	Horz(CT) -0.04 19 n/a n/a
			PLATES	GRIP
			MT20	244/190
			Weight: 158 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
20-27: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

REACTIONS.

(size) 1=0-3-0, 19=0-3-0, 30=0-8-0
Max Uplift 1=100(LC 4)
Max Grav 1=334(LC 3), 19=918(LC 7), 30=1849(LC 1)

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

TOP CHORD 1-2=-285/118, 2-4=-290/121, 4-5=-280/703, 5-6=-280/703, 6-7=-280/703, 7-8=0/1718,
8-9=0/1718, 9-10=-416/0, 10-12=-1791/0, 12-13=-2622/0, 13-14=-2935/0,
14-15=-2762/0, 15-16=-2079/0, 16-18=-864/0, 18-19=-864/0
BOT CHORD 32-33=-302/395, 31-32=-703/280, 30-31=-1220/0, 29-30=-576/0, 28-29=0/1232,
26-28=0/2329, 25-26=0/2935, 24-25=0/2935, 23-24=0/2935, 22-23=0/2559, 21-22=0/1580
WEBS 1-33=-163/394, 19-21=0/1194, 4-33=-154/258, 4-32=-566/0, 5-32=0/271, 7-30=-906/0,
7-31=0/945, 6-31=-493/0, 16-21=-1005/0, 16-22=0/716, 15-22=-689/0, 15-23=0/355,
14-23=-413/10, 9-30=-1569/0, 9-29=0/1228, 10-29=-1189/0, 10-28=0/818, 12-28=-786/0,
12-26=0/465, 13-26=-582/0

NOTES- (7)

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=100.
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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

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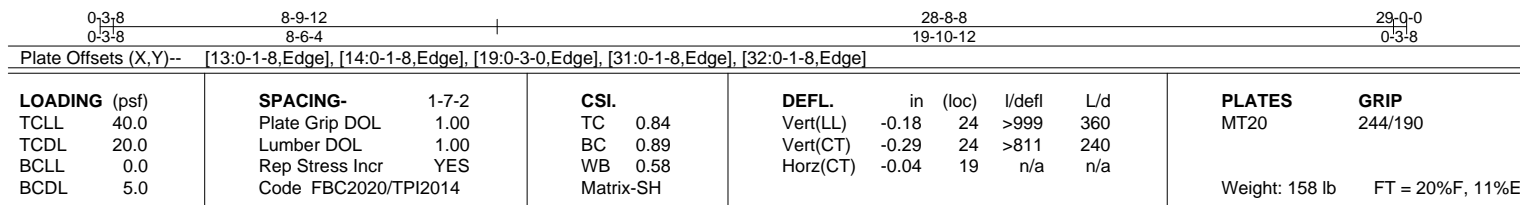
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:03 2022 Page 1
ID:bzeMQ6aYnVsaPAR?sPBKUknZRR9V-9og6BOTNGJzshFq?sK38Ni_r3xwO3m2GuePDUyNBrc



REACTIONS. (size) 1=0-3-0, 19=0-3-0, 30=0-3-8
 Max Uplift 1=100(LC 4)
 Max Grav 1=334(LC 3), 19=918(LC 7), 30=1849(LC 1)

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

TOP CHORD	1-2=-285/118, 2-4=-290/121, 4-5=-280/703, 5-6=-280/703, 6-7=-280/703, 7-8=0/1718, 8-9=0/1718, 9-10=-416/0, 10-12=-1791/0, 12-13=-2622/0, 13-14=-2935/0, 14-15=-2762/0, 15-16=-2079/0, 16-18=-864/0, 18-19=-864/0
BOT CHORD	32-33=-302/395, 31-32=-703/280, 30-31=-1220/0, 29-30=-576/0, 28-29=0/1232, 26-28=0/2329, 25-26=0/2935, 24-25=0/2935, 23-24=0/2935, 22-23=0/2559, 21-22=0/1580
WEBS	1-33=-163/394, 19-21=0/1194, 4-33=-154/258, 4-32=-566/0, 5-32=0/271, 7-30=-906/0, 7-31=0/945, 6-31=-493/0, 16-21=-1005/0, 16-22=0/716, 15-22=-689/0, 15-23=0/355, 14-23=-413/10, 9-30=-1569/0, 9-29=0/1228, 10-29=-1189/0, 10-28=0/818, 12-28=-786/0, 12-26=0/465, 13-26=-582/0

NOTES- (7)

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=100.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" o.c. 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.
- 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 6) CAUTION, Do not erect truss backwards.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL03	Floor	14	1	T29127042

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:04 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnZRR9V-d_OUPjU01d5jNrqlZZrlhaEAWTFm7W9BVYNzlxynBrb

0-3-8

1-3-0

Scale = 1:35.2

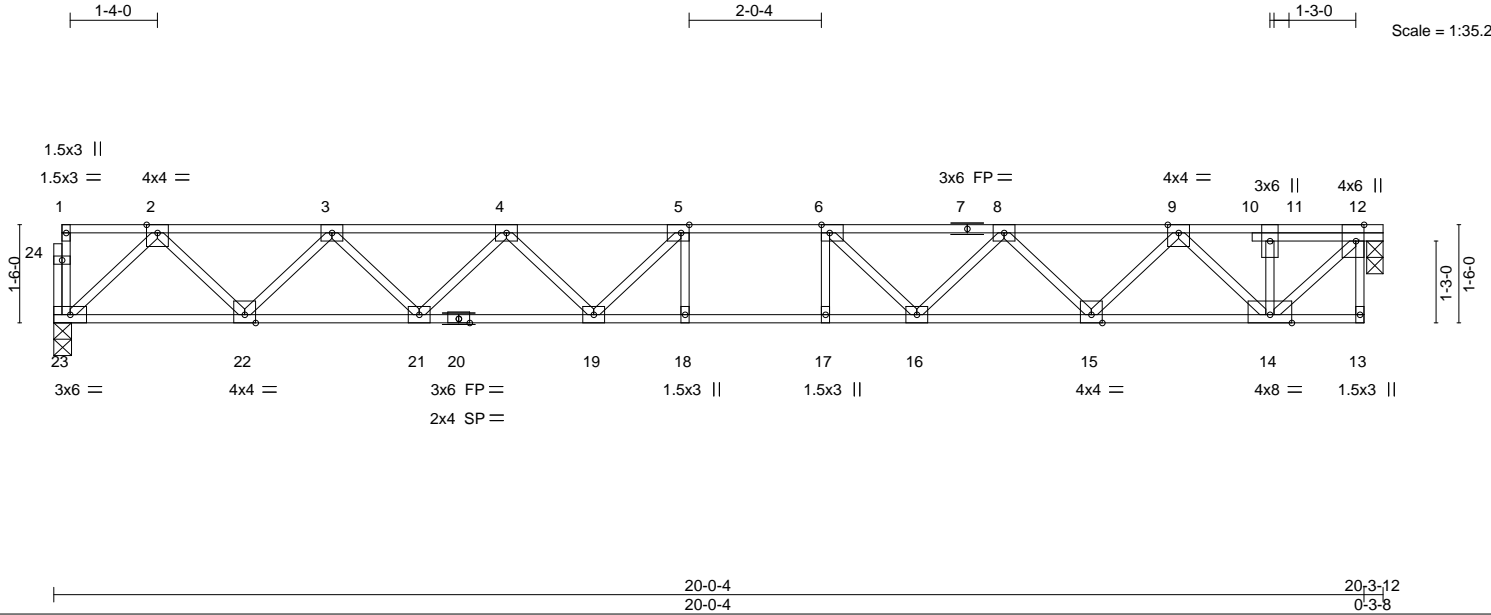


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [12:0-3-0,Edge]

LOADING (psf)	SPACING-	1-7-2	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.78	Vert(LL)	-0.24 18-19	>999	360	MT20	244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.91	Vert(CT)	-0.38 18-19	>619	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.02 12	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014		Matrix-SH					Weight: 108 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-20: 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 12=0-3-0, 23=0-3-4
Max Grav 12=1027(LC 1), 23=1021(LC 1)

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

TOP CHORD 2-3=-1766/0, 3-4=-2932/0, 4-5=-3549/0, 5-6=-3668/0, 6-8=-3299/0, 8-9=-2405/0,
9-11=-972/0, 11-12=-972/0
BOT CHORD 22-23=0/1035, 21-22=0/2473, 19-21=0/3376, 18-19=0/3668, 17-18=0/3668, 16-17=0/3668,
15-16=0/2978, 14-15=0/1804
WEBS 12-14=0/1344, 9-14=-1167/0, 9-15=0/863, 8-15=-824/0, 8-16=0/520, 6-16=-690/0,
6-17=-97/254, 2-23=-1421/0, 2-22=0/1050, 3-22=-1015/0, 3-21=0/660, 4-21=-637/0,
4-19=0/366, 5-19=-433/112

NOTES- (7)

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 20 = 11%
- 4) 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.
- 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 6) CAUTION, Do not erect truss backwards.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-21.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127043
HR0009	FL04	Floor	4	1	

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:05 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-6Aysc3UeoxDa_?PD6HMXeonK6tbXszLkC7WHNyNBra

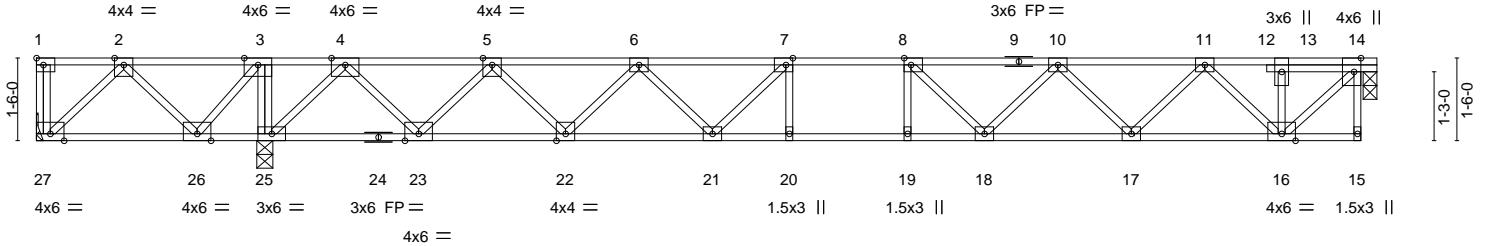
0-3-8

1-4-0 1-1-4

2-0-4

1-3-0

Scale = 1:41.8



4-1-12		4-1-12		24-0-8				24-4-0			
Plate Offsets (X,Y)--		[7:0-1-8,Edge], [8:0-1-8,Edge], [14:0-3-0,Edge]		19-10-12				0-3-8			
LOADING	(psf)	SPACING-	1-7-2	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.18 18-19	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.29 18-19	>831	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	-0.03 14	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-SH						Weight: 132 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
15-24: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 14=0-3-0, 27=Mechanical, 25=0-3-8
Max Uplift 27=-735(LC 4)
Max Grav 14=862(LC 4), 25=2221(LC 1)

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

TOP CHORD 2-3=0/1604, 3-4=0/2353, 4-5=0/409, 5-6=-1210/0, 6-7=-2149/0, 7-8=-2561/0,
8-10=-2488/0, 10-11=-1913/0, 11-13=-809/0, 13-14=-809/0

BOT CHORD 26-27=-802/0, 25-26=-2353/0, 23-25=-1189/0, 22-23=0/596, 21-22=0/1796,
20-21=0/2561, 19-20=0/2561, 18-19=0/2561, 17-18=0/2345, 16-17=0/1466

WEBS 14-16=0/1118, 3-25=-1092/0, 2-27=0/1103, 2-26=-1226/0, 3-26=0/1195, 11-16=-923/0,
11-17=0/642, 10-17=-620/0, 10-18=0/278, 8-18=-291/78, 4-25=-1631/0, 4-23=0/1281,
5-23=-1259/0, 5-22=0/883, 6-22=-842/0, 6-21=0/508, 7-21=-651/0

NOTES- (8)

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- 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) 27=735.
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL05	Floor Girder	2	1	T29127044

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:06 2022 Page 1

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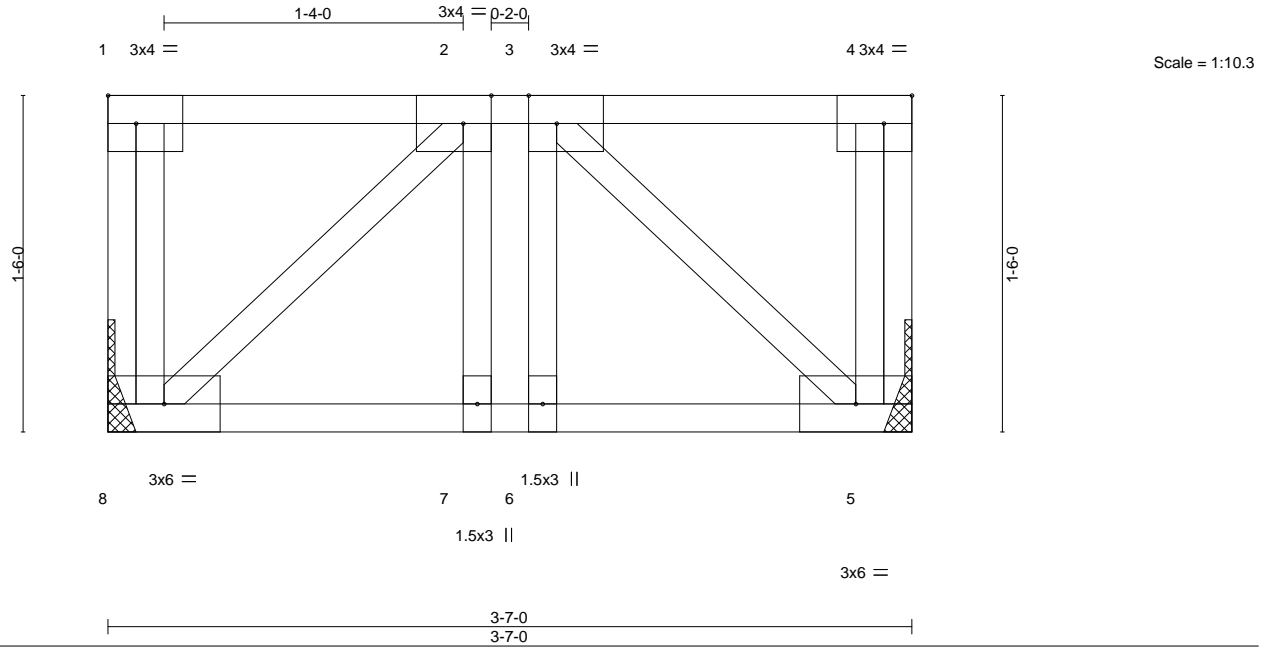


Plate Offsets (X,Y)--		[2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-1-8,Edge]									
LOADING (psf)		SPACING-	1-7-2	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0		Plate Grip DOL	1.00	TC 0.58		Vert(LL)	-0.01 7-8	>999	360	MT20	244/190
TCDL 20.0		Lumber DOL	1.00	BC 0.25		Vert(CT)	-0.01 7-8	>999	240		
BCLL 0.0		Rep Stress Incr	NO	WB 0.15		Horz(CT)	0.00 5	n/a	n/a		
BCDL 5.0		Code	FBC2020/TPI2014	Matrix-SH						Weight: 27 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=Mechanical, 5=Mechanical
Max Grav 8=683(LC 1), 5=683(LC 1)

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

TOP CHORD 1-8=-261/0, 4-5=-261/0, 2-3=-472/0
BOT CHORD 7-8=0/472, 6-7=0/472, 5-6=0/472
WEBS 2-8=-637/0, 3-5=-637/0

NOTES- (5)

- Unbalanced floor live loads have been considered for this design.
- 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.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-8, 1-4=-402(F=-306)

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL06	Floor Girder	2	1	T29127045

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:07 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-2Z3d1IWuKYTIEJYcEiO?JDsgQgRDK_?dBWcdMGyNBry

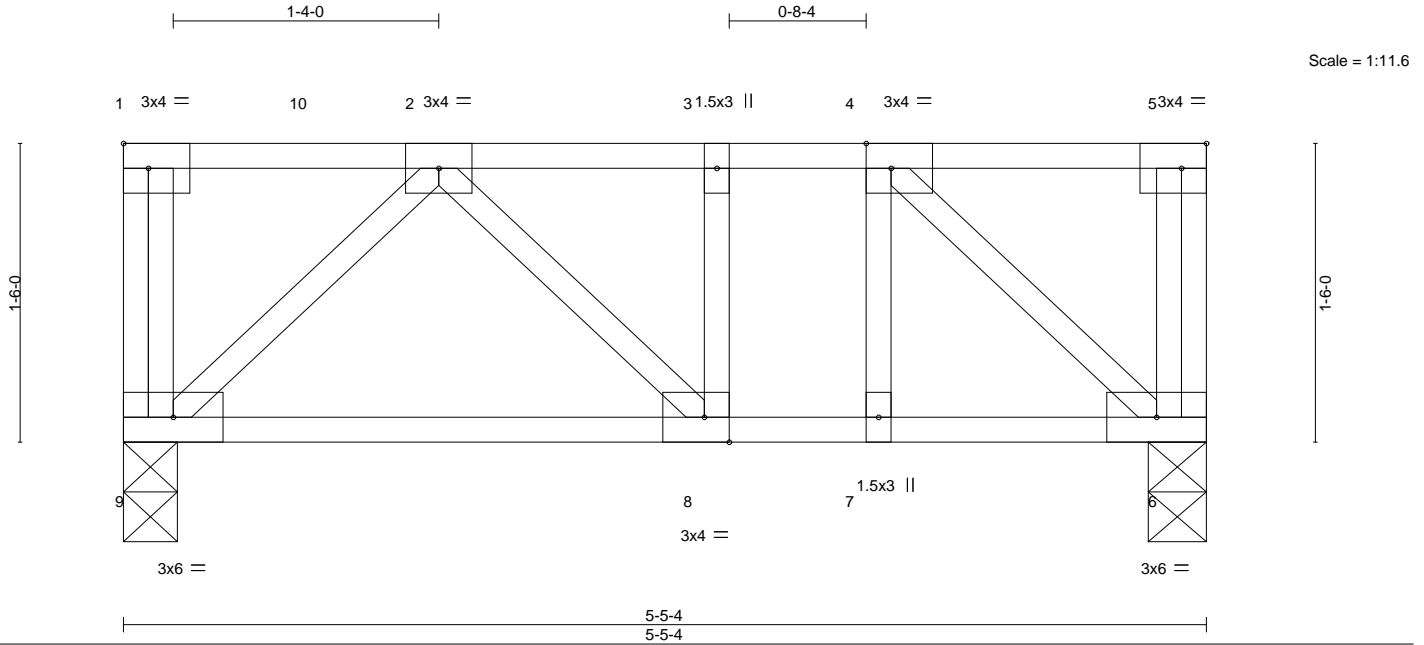


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [8:0-1-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	1-7-2	TC 0.86	Vert(LL)	-0.02	8-9	>999	360	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.29	Vert(CT)	-0.03	8-9	>999	240		
BCLL 0.0	Lumber DOL 1.00	WB 0.19	Horz(CT)	0.00	6	n/a	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH						Weight: 35 lb	FT = 20%F, 11%E
	Code FBC2020/TPI2014								

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 9=0-3-4, 6=0-3-8
Max Grav 9=773(LC 1), 6=371(LC 1)

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

TOP CHORD 2-3=-376/0, 3-4=-376/0
BOT CHORD 8-9=0/559, 7-8=0/376, 6-7=0/376
WEBS 2-9=-768/0, 2-8=-286/0, 4-6=-508/0

NOTES- (5)

- Unbalanced floor live loads have been considered for this design.
- 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) 657 lb down at 1-0-0 on top 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).
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-8, 1-5=-96
Concentrated Loads (lb)
Vert: 10=-606(B)

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November 3,2022

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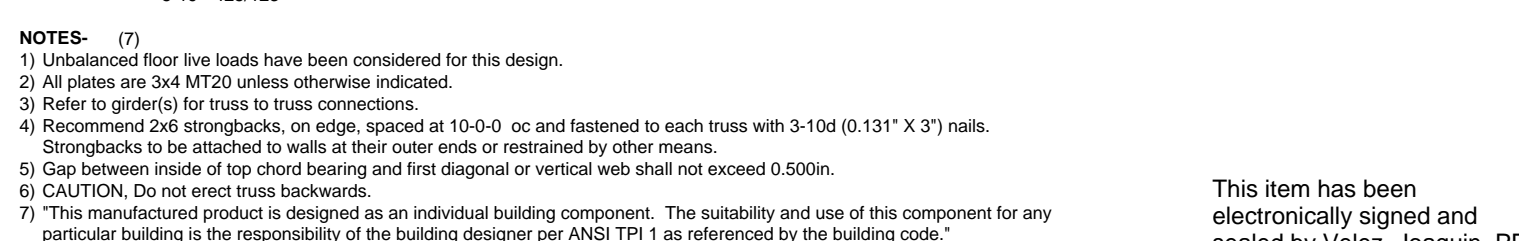
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:08 2022 Page 1



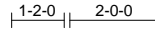
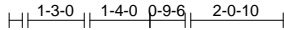
November 3, 2022

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL09	Floor	8	1	T29127047

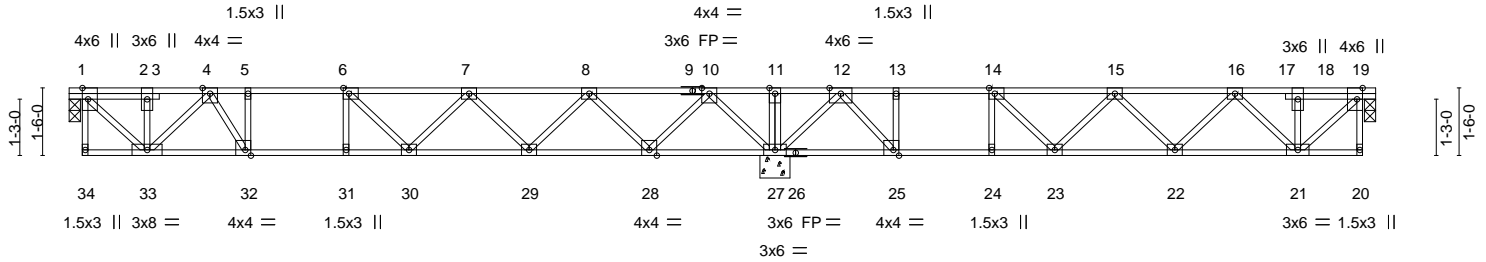
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:09 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-_yBNSRX8r9j0Tci_L6RTOex3DU1yooRwfq5kR8yNBrW

0-3-8



Scale = 1:51.1



0-3-8	4-5-8	6-2-8	7-6-8	10-2-8	12-10-8	15-8-0	28-8-8	29-0-0
0-3-8	4-2-0	1-9-0	1-4-0	2-8-0	2-8-0	2-9-8	13-0-8	0-3-8
Plate Offsets (X,Y)-- [1:0-3-0,Edge], [6:0-1-8,Edge], [14:0-1-8,Edge], [19:0-3-0,Edge], [25:0-1-8,Edge], [32:0-1-8,Edge]								

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.65	Vert(LL)	-0.18	23-24	>848	360	MT20
TCDL 20.0	Lumber DOL	1.00	BC 0.66	Vert(CT)	-0.29	23-24	>529	240	
BCLL 0.0	Rep Stress Incr	YES	WB 0.57	Horz(CT)	-0.02	19	n/a	n/a	
BCDL 5.0	Code FBC2020/TPI2014		Matrix-SH						
									Weight: 157 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP M 31(flat) *Except*
1-3,17-19: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 1=0-3-0, 19=0-3-0, 27=0-8-0
Max Grav 1=716(LC 10), 19=656(LC 4), 27=1649(LC 1)

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

TOP CHORD 1-2=-657/0, 2-4=-666/0, 4-5=-1604/0, 5-6=-1604/0, 6-7=-1758/0, 7-8=-1452/0,
8-10=-595/0, 10-11=0/1209, 11-12=0/1209, 12-13=-1179/319, 13-14=-1179/319,
14-15=-1464/7, 15-16=-1302/0, 16-18=-606/0, 18-19=-606/0
BOT CHORD 32-33=0/1172, 31-32=0/1604, 30-31=0/1604, 29-30=0/1763, 28-29=0/1142,
27-28=-320/151, 25-27=-765/515, 24-25=-319/1179, 23-24=-319/1179, 22-23=0/1558,
21-22=0/1043
WEBS 1-33=0/909, 19-21=0/838, 4-33=-723/0, 4-32=0/852, 16-21=-614/0, 16-22=-0/372,
15-22=-368/11, 15-23=-286/0, 14-23=0/626, 14-24=-385/0, 12-27=-1048/0,
12-25=0/1205, 13-25=-601/0, 10-27=-1223/0, 10-28=0/890, 8-28=-836/0, 8-29=0/491,
7-29=-485/0, 5-32=-505/0, 6-30=-6/261

NOTES- (6)

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL10	FLOOR	20	1	T29127048

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:10 2022 Page 1
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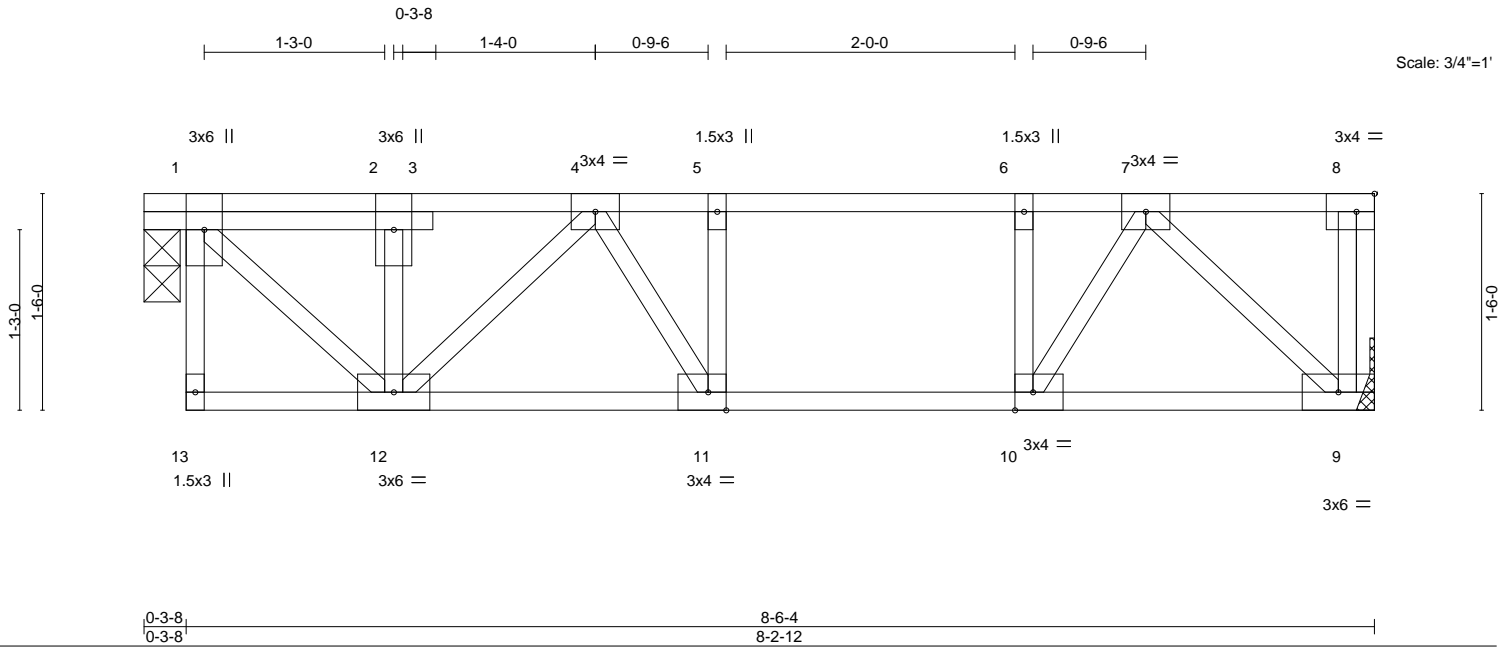


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.47	Vert(LL)	-0.04 11-12	>999	360	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.37	Vert(CT)	-0.06 11-12	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.24	Horz(CT)	-0.02 9	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 51 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 1=0-3-0, 9=Mechanical
Max Grav 1=417(LC 1), 9=417(LC 1)

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

TOP CHORD 1-2=-372/0, 2-4=-377/0, 4-5=-571/0, 5-6=-571/0, 6-7=-571/0
BOT CHORD 11-12=0/546, 10-11=0/571, 9-10=0/375
WEBS 1-12=0/514, 7-9=-516/0, 7-10=0/411, 6-10=-283/0

NOTES- (6)

- Unbalanced floor live loads have been considered for this design.
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

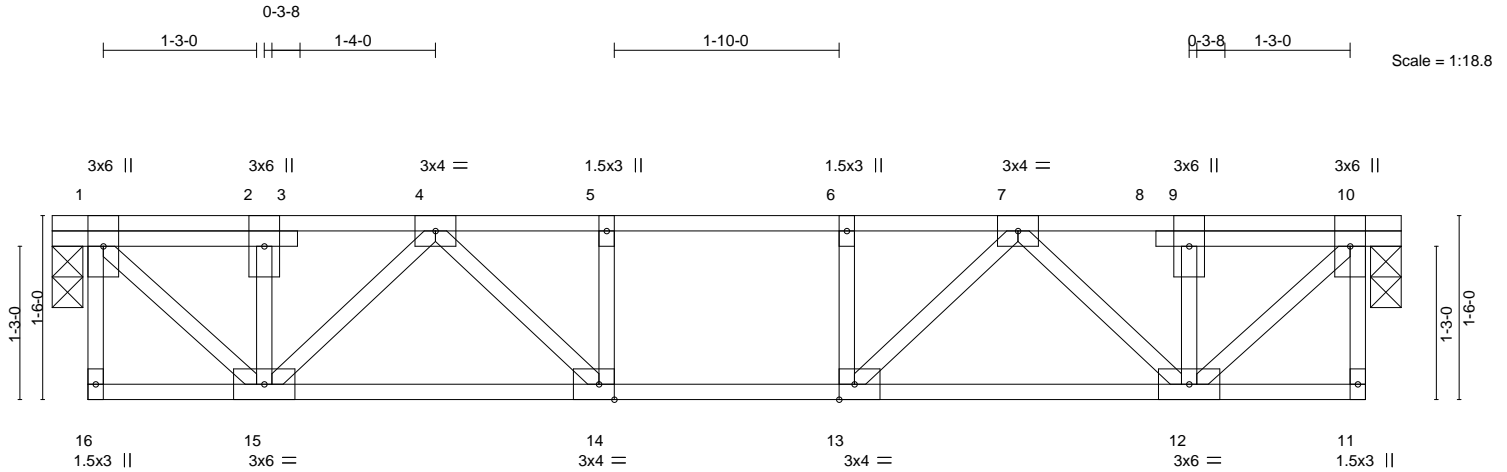


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL11	Floor	2	1	T29127049

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:11 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-wKJ8t7ZPNzkiwsNTXT31TfIn5GmuD68aqV1yNBrU



0-3-8 0-3-8	10-8-8 10-5-0	11-0-0 0-3-8
Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge]		
LOADING (psf)	SPACING- 1-7-2	CSI.
TCLL 40.0	Plate Grip DOL 1.00	TC 0.32
TCDL 20.0	Lumber DOL 1.00	BC 0.36
BCLL 0.0	Rep Stress Incr YES	WB 0.32
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH
		DEFL. in (loc) l/defl L/d
		Vert(LL) -0.04 14-15 >999 360
		Vert(CT) -0.05 14-15 >999 240
		Horz(CT) -0.01 10 n/a n/a
		PLATES GRIP
		MT20 244/190
		Weight: 64 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 1=0-3-0, 10=0-3-0
Max Grav 1=533(LC 1), 10=533(LC 1)

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

TOP CHORD 1-2=-486/0, 2-4=-489/0, 4-5=-980/0, 5-6=-980/0, 6-7=-980/0, 7-9=-489/0, 9-10=-486/0
BOT CHORD 14-15=0/787, 13-14=0/980, 12-13=0/787
WEBS 1-15=0/672, 10-12=0/672, 4-15=-423/0, 4-14=0/349, 7-12=-423/0, 7-13=0/349

NOTES- (4)

- Unbalanced floor live loads have been considered for this design.
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

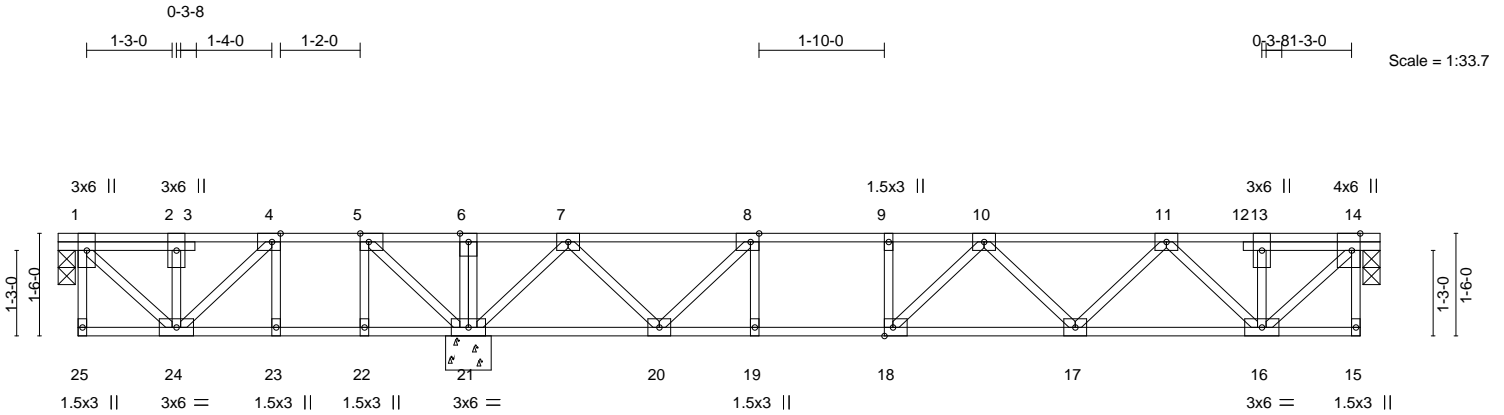


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL12	Floor	4	1	T29127050

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:12 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-OXtW4Ta1845bK4RZ1F_A0GZaUh_q?BvMLoJO1TyNBtR



0-3-8 0-3-8	6-0-0 5-8-8	10-1-8 4-1-8	19-0-8 8-11-0	19-4-0 0-3-8
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [8:0-1-8,Edge], [14:0-3-0,Edge], [18:0-1-8,Edge]				
LOADING (psf)	SPACING- 1-7-2	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.59	Vert(LL) -0.12 17-18 >999 360	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.90	Vert(CT) -0.18 17-18 >843 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(CT) -0.02 14 n/a n/a	
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH		Weight: 110 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 1=0-3-0, 14=0-3-0, 21=0-8-0
Max Grav 1=320(LC 10), 14=667(LC 7), 21=994(LC 1)

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

TOP CHORD 1-2=-277/0, 2-4=-291/0, 4-5=-346/0, 7-8=-1012/0, 8-9=-1478/0, 9-10=-1478/0, 10-11=-1342/0, 11-13=-605/0, 13-14=-605/0
BOT CHORD 23-24=0/346, 22-23=0/346, 21-22=0/346, 20-21=0/606, 19-20=0/1478, 18-19=0/1478, 17-18=0/1549, 16-17=0/1084
WEBS 1-24=0/382, 14-16=0/837, 5-21=-473/0, 11-16=-672/0, 11-17=0/371, 10-17=-296/0, 7-21=-891/0, 7-20=0/600, 8-20=-682/0

NOTES- (6)

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.
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November 3,2022

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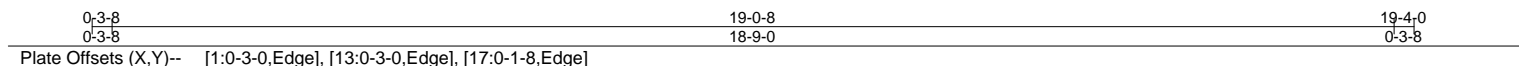
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MITek Industries, Inc. Wed Nov 2 15:27:14 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-Lv_GV8bHqILIZObY8q0e5hfrjVfsT2Fo6oU6MyNBr



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.3(flat)		2-2-0 oc bracing: 18-19,17-18.

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

TOP CHORD	1-2=-912/0, 2-4=-912/0, 4-5=-2213/0, 5-6=-3011/0, 6-7=-3165/0, 7-8=-3165/0, 8-9=-3165/0, 9-10=-2196/0, 10-12=-910/0, 12-13=-910/0
BOT CHORD	20-21=0/1675, 19-20=0/2741, 18-19=0/3224, 17-18=0/3165, 16-17=0/2727, 15-16=0/1681
WEBS	1-21=0/1260, 13-15=0/1258, 10-15=-1083/0, 10-16=0/740, 9-16=-762/0, 9-17=0/786, 8-17=-395/0, 4-21=-1072/0, 4-20=0/773, 5-20=-758/0, 5-19=0/389, 6-19=-315/0, 6-18=-284/274

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November 3, 2022

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL14	Floor	14	1	T29127052

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:14 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-Lv_GV8bHgiLIZOby8g0e5hfshVgUT4Cfo6oU6MyNBrR

0-3-8

1-4-0

0-6-0 2-0-0

1-3-0

Scale = 1:26.4

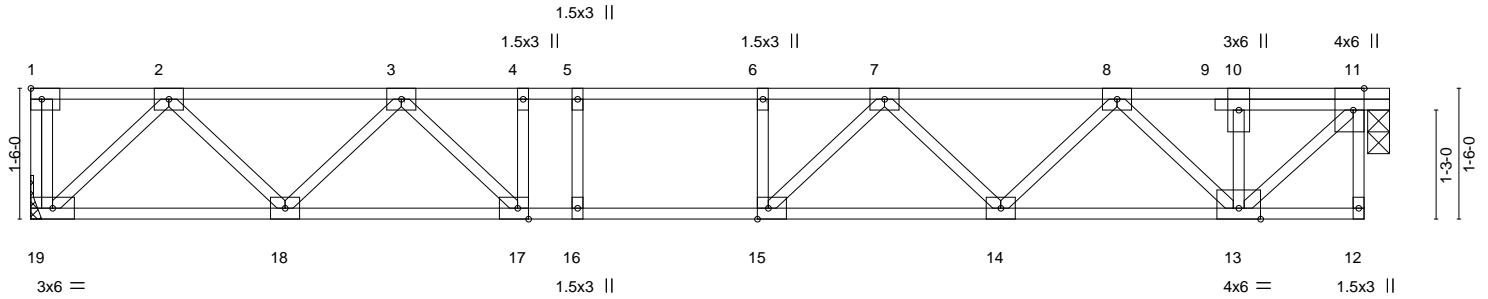


Plate Offsets (X,Y)-- [11:0-3-0,Edge], [15:0-1-8,Edge], [17:0-1-8,Edge]		6-4-0 6-4-0		8-0-4 1-8-4		15-3-8 7-3-4		15-7-0 0-3-8	
LOADING (psf)	SPACING-	1-7-2	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.86	Vert(LL)	-0.20 14-15	>909	360	MT20	244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.95	Vert(CT)	-0.28 14-15	>641	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.48	Horz(CT)	-0.03 11	n/a	n/a		
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 86 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

(size) 11=0-3-0, 19=Mechanical
Max Grav 11=782(LC 1), 19=782(LC 1)

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

TOP CHORD 2-3=-1255/0, 3-4=-2090/0, 4-5=-2090/0, 5-6=-2090/0, 6-7=-2090/0, 7-8=-1679/0, 8-10=-722/0, 10-11=-722/0
BOT CHORD 18-19=0/778, 17-18=0/1737, 16-17=0/2090, 15-16=0/2090, 14-15=0/2002, 13-14=0/1315
WEBS 11-13=0/998, 8-13=-832/0, 8-14=0/522, 7-14=-465/0, 2-19=-1069/0, 2-18=0/686, 3-18=-693/0, 3-17=0/642, 4-17=-282/0

NOTES- (7)

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
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Date:

November 3,2022

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

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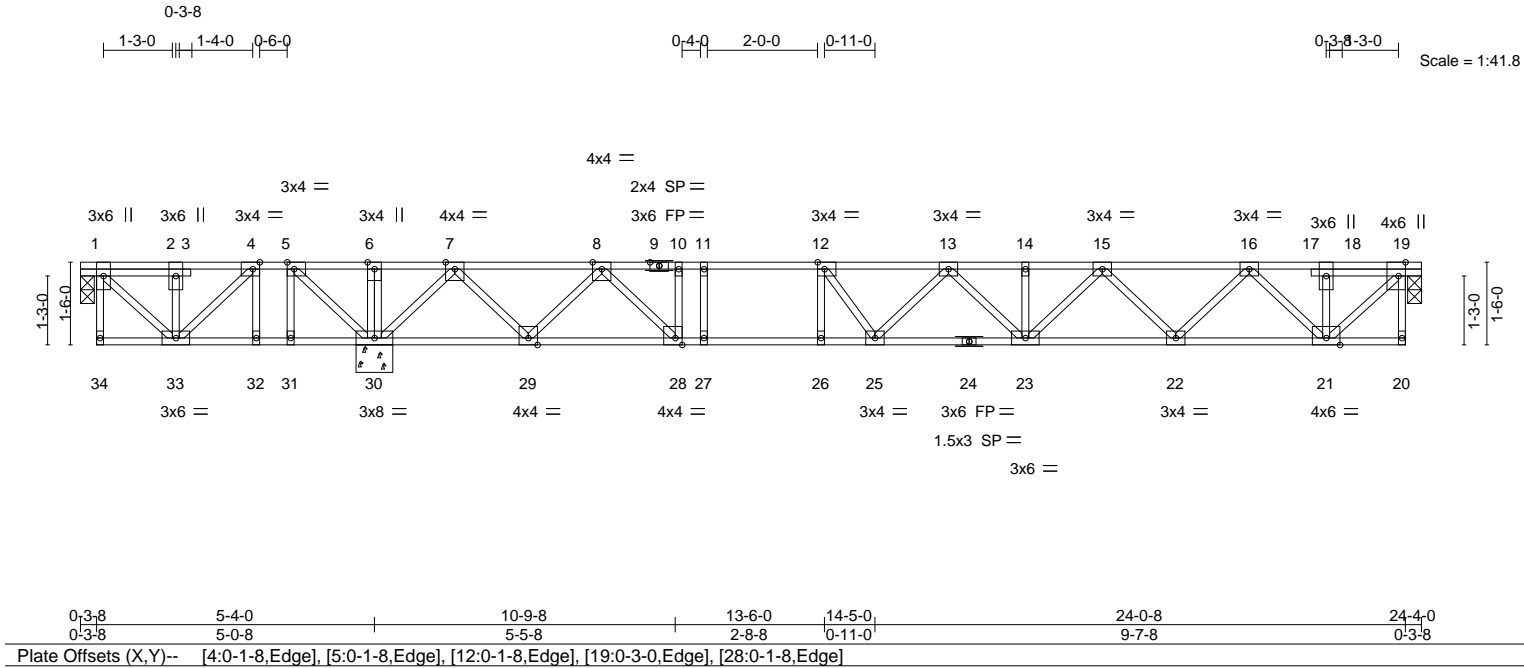


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL15	Floor	14	1	T29127053

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:16 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-HI61wqdXCJb0phkKG536A6kDLJLUXzCyGQHbAEyNBrP



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.79	Vert(LL)	-0.30 25-26	>735	360	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.92	Vert(CT)	-0.49 25-26	>457	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.57	Horz(CT)	-0.04 19	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 139 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-9: 2x4 SP No.1(flat), 9-19: 2x4 SP M 31(flat)	TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31(flat) *Except* 20-24: 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 1=0-3-0, 19=0-3-0, 30=0-8-0
Max Uplift 1=72(LC 4)
Max Grav 1=208(LC 9), 19=922(LC 7), 30=1440(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-104/309, 5-6=0/618, 6-7=0/618, 7-8=-1088/0, 8-10=-2609/0, 10-11=-2609/0,
11-12=-2609/0, 12-13=-2910/0, 13-14=-2804/0, 14-15=-2804/0, 15-16=-2087/0,
16-18=-866/0, 18-19=-866/0
BOT CHORD 32-33=-309/104, 31-32=-309/104, 30-31=-309/104, 29-30=0/493, 28-29=0/1827,
27-28=0/2609, 26-27=0/2609, 25-26=0/2609, 23-25=0/3027, 22-23=0/2556, 21-22=0/1593
WEBS 19-21=0/1198, 16-21=-1020/0, 16-22=0/710, 15-22=-674/0, 15-23=0/348, 13-23=-312/0,
7-30=-1386/0, 7-29=0/959, 8-29=-1069/0, 8-28=0/1133, 4-33=0/338, 5-30=-574/0,
12-26=-472/0, 12-25=0/599, 10-28=-585/0

- NOTES-** (8)
- Unbalanced floor live loads have been considered for this design.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - The Fabrication Tolerance at joint 24 = 11%, joint 9 = 11%
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - 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.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - CAUTION, Do not erect truss backwards.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

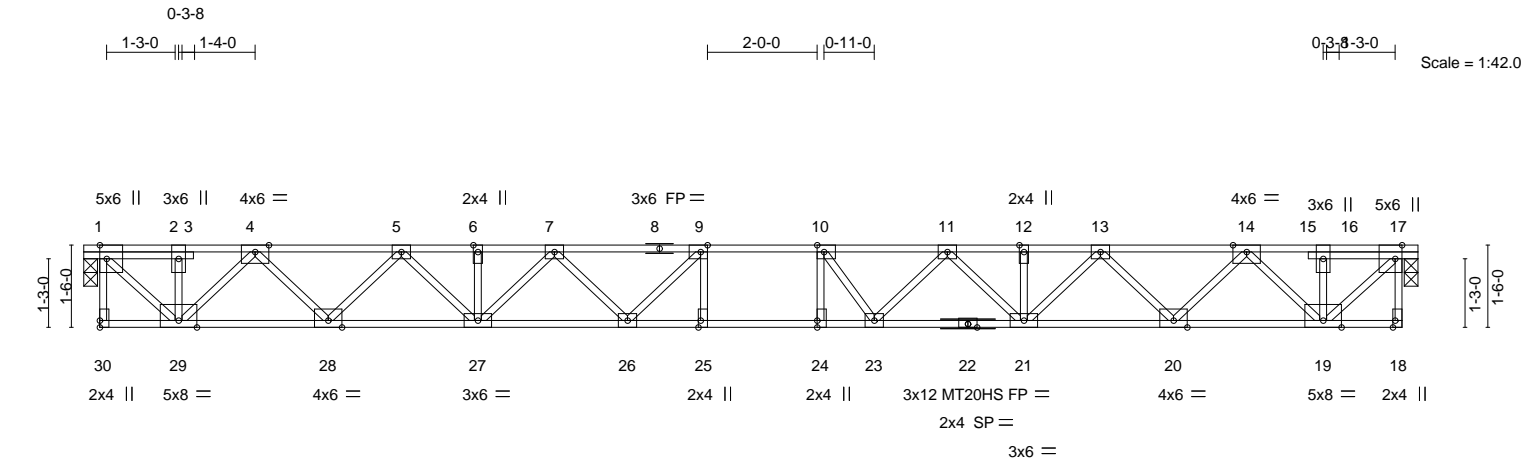
November 3,2022



Job	Truss	Truss Type	Qty	Ply	
HR0009	FL16	Floor	40	1	T29127054

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:17 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-IUGP7Ae9zdtQrJXpoaLjKHL6ih5gMJ6U419jgyNBrO



0-3-8 0-3-8	14-5-0 14-1-8	24-0-8 9-7-8	24-4-0 0-3-8
Plate Offsets (X,Y)-- [1:0-3-0,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [17:0-3-0,Edge], [18:0-1-8,Edge], [24:0-1-8,0-0-0], [25:0-1-8,Edge]			

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.98	Vert(LL) -0.41	25	>691	360	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.90	Vert(CT) -0.67	25	>425	240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.77	Horz(CT) -0.12	17	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-SH						
							Weight: 134 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-8: 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP M 31(flat) *Except* 18-22: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 1=0-3-0, 17=0-3-0
Max Grav 1=1224(LC 1), 17=1224(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1171/0, 2-4=-1171/0, 4-5=-2985/0, 5-6=-4310/0, 6-7=-4310/0, 7-9=-5025/0,
9-10=-5231/0, 10-11=-5036/0, 11-12=-4315/0, 12-13=-4315/0, 13-14=-2985/0,
14-16=-1171/0, 16-17=-1171/0
BOT CHORD 28-29=0/2199, 27-28=0/3749, 26-27=0/4797, 25-26=0/5231, 24-25=0/5231, 23-24=0/5231,
21-23=0/4780, 20-21=0/3749, 19-20=0/2200
WEBS 1-29=0/1619, 17-19=0/1618, 4-29=-1443/0, 4-28=0/1129, 5-28=-1098/0, 5-27=0/787,
7-27=-683/0, 7-26=0/469, 9-26=-588/89, 14-19=-1445/0, 14-20=0/1128, 13-20=-1098/0,
13-21=0/795, 11-21=-653/0, 11-23=0/517, 10-23=-641/85, 10-24=-211/292

- NOTES-** (7)
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - The Fabrication Tolerance at joint 22 = 11%
 - 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.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Chesterfield, MO 63017
Date:

November 3,2022

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

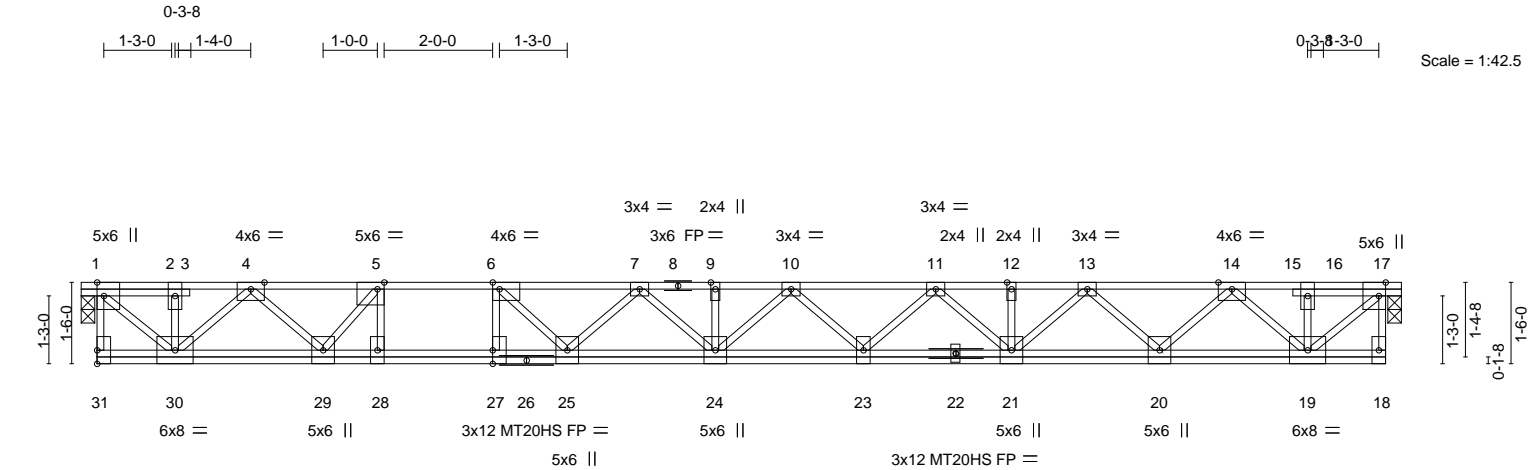


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL16A	Floor	4	1	T29127055

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:19 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-hto9YsfQVE_bg9TvxDcpolMhgWRI8GHOyOWFnZyNBrM



0-3-8	4-5-8	5-5-8	8-11-8	24-0-8	24-4-0
0-3-8	4-2-0	1-0-0	3-6-0	15-1-0	0-3-8
Plate Offsets (X,Y)-- [1:0-3-0,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [17:0-3-0,Edge], [27:0-3-0,0-0-0]					
LOADING (psf)	SPACING-	1-7-2	CSI.	DEFL.	PLATES GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.97	in (loc) l/defl L/d	MT20 244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.69	Vert(LL) -0.40 24 >706 360	MT20HS 187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.81	Vert(CT) -0.65 24 >434 240	
BCDL 5.0	Code FBC2020/TPI2014		Matrix-SH	Horz(CT) -0.12 17 n/a n/a	
				Weight: 166 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-8: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 1=0-3-0, 17=0-3-0
Max Grav 1=1224(LC 1), 17=1224(LC 1)

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

TOP CHORD 1-2=-1251/0, 2-4=-1251/0, 4-5=-3086/0, 5-6=-4249/0, 6-7=-5073/0, 7-9=-5433/0,
9-10=-5433/0, 10-11=-5245/0, 11-12=-4487/0, 12-13=-4487/0, 13-14=-3111/0,
14-16=-1219/0, 16-17=-1219/0
BOT CHORD 29-30=0/2249, 28-29=0/4249, 27-28=0/4249, 25-27=0/4249, 24-25=0/5399, 23-24=0/5461,
21-23=0/4996, 20-21=0/3908, 19-20=0/2292
WEBS 1-30=0/1691, 17-19=0/1648, 4-30=-1370/0, 4-29=0/1175, 14-19=-1473/0, 14-20=0/1149,
13-20=-1118/0, 13-21=0/796, 11-21=-698/0, 11-23=0/350, 10-23=-303/0, 7-25=-504/0,
6-25=0/1271, 5-28=0/1200, 5-29=-1862/0, 6-27=-1032/0

NOTES- (6)

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Chesterfield, MO 63017
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL17	Floor	2	1	T29127056

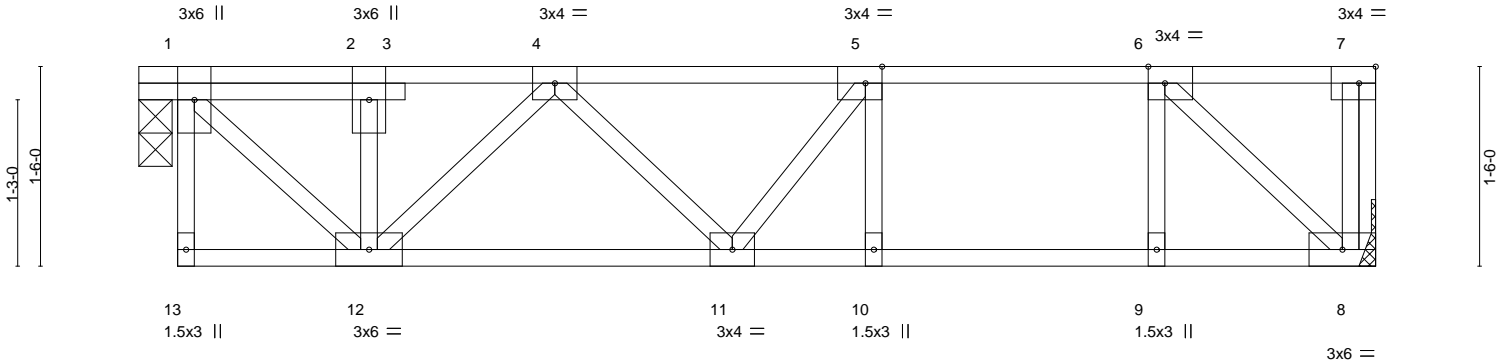
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:20 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-93MXmCg2GY6SHJ26Vw72LyvwqwiksBYB2FpJ?yNBRL

0-3-8



Scale = 1:17.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.11 10-11 >990 360	MT20		244/190	
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.17 10-11 >632 240				
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	-0.04 8 n/a n/a				
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-SH							
								Weight: 54 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 1=0-3-0, 8=Mechanical
Max Grav 1=456(LC 1), 8=456(LC 1)

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

TOP CHORD 1-2=-382/0, 2-4=-382/0, 4-5=-696/0, 5-6=-588/0
BOT CHORD 11-12=0/678, 10-11=0/588, 9-10=0/588, 8-9=0/588
WEBS 1-12=0/528, 4-12=-416/0, 6-8=-793/0

NOTES- (6)

- Unbalanced floor live loads have been considered for this design.
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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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



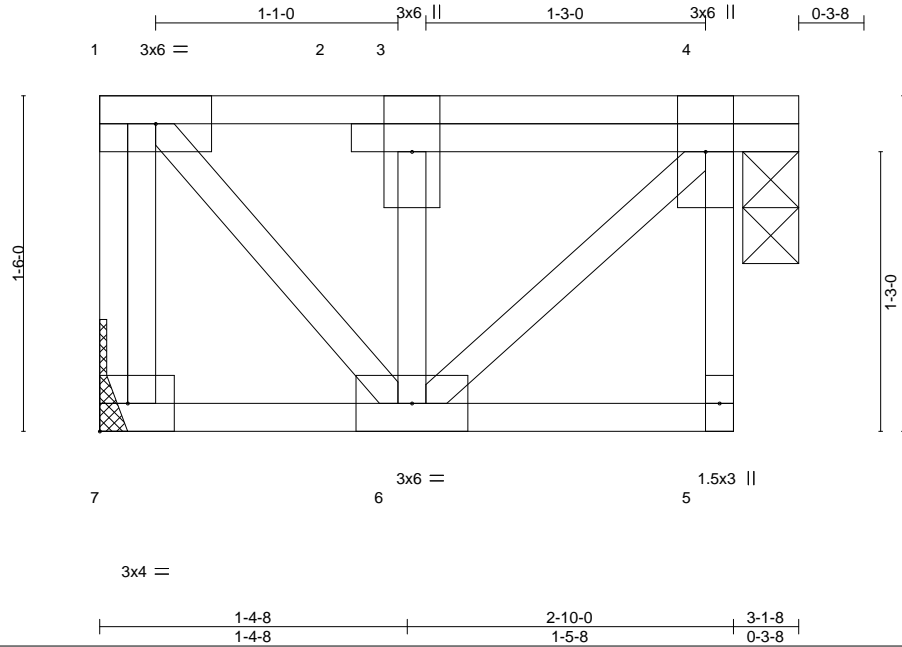
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	FL18	Floor	2	1	T29127057

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:20 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-93MXmCg2GY6SHJ26Vw72Lyv5uwxftvCYB2FpJ?yNBrL



Scale = 1:10.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.05	Vert(LL) -0.00	6	>999	360	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.01	Vert(CT) -0.00	6	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) -0.00	4	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-P					Weight: 24 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 7=Mechanical, 4=0-3-0
Max Grav 7=137(LC 1), 4=137(LC 1)

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

NOTES- (5)

- 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.
- 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 4) CAUTION, Do not erect truss backwards.
- 5) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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

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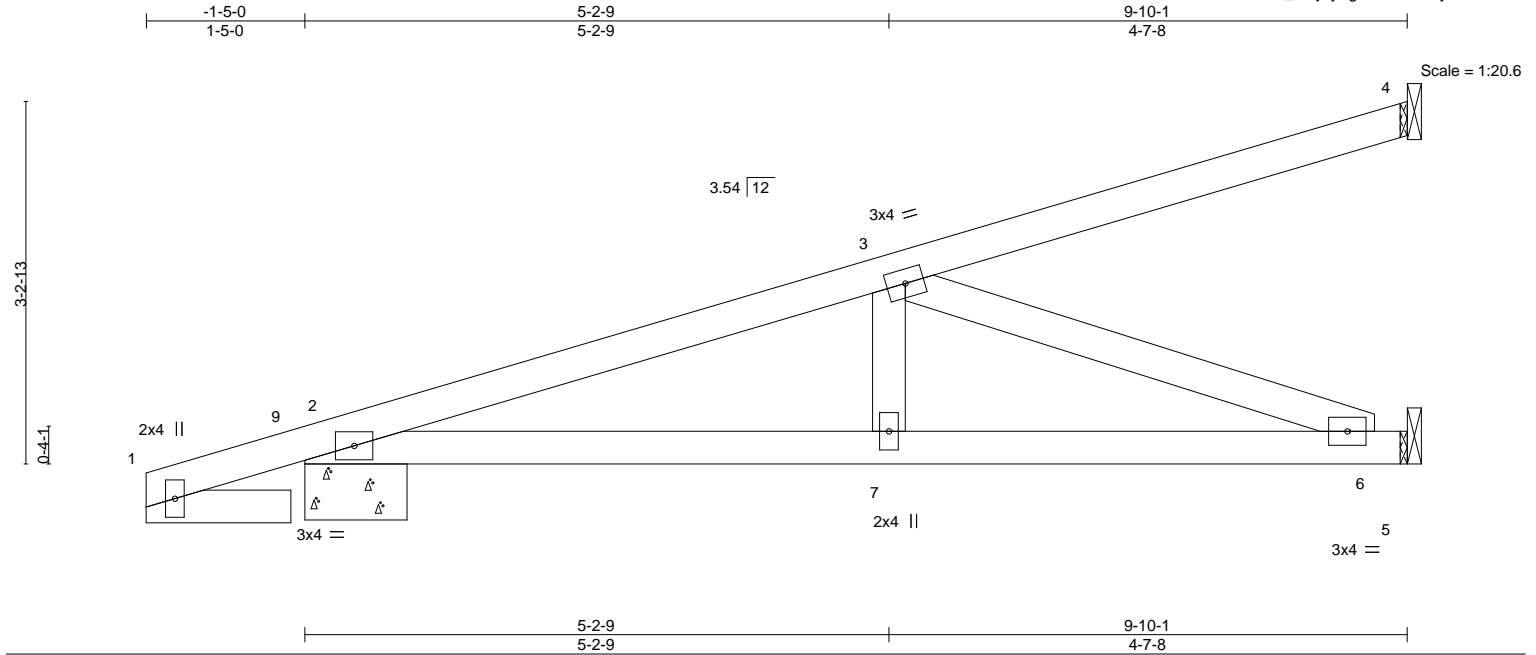


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	H7	Diagonal Hip Girder	4	1	T29127058

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:22 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-6STIBtlo9MAXcCUcL9WQN_EwjTyLgFreMkwOuyNBrJ



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.84	Vert(LL)	0.05	6-7	>999	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.60	Vert(CT)	-0.10	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.53	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH					Weight: 43 lb	FT = 20%
	Code FBC2020/TPI2014							

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 4-10-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-2-2 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz 2=294(LC 8)
Max Uplift 4=-293(LC 8), 2=-338(LC 8), 5=-202(LC 8)
Max Grav 4=402(LC 13), 2=598(LC 1), 5=481(LC 1)

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

TOP CHORD 2-3=-1227/424
BOT CHORD 2-7=-640/1146, 6-7=-640/1146
WEBS 3-6=-1219/681, 3-7=0/266

NOTES- (8)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); 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) 4=293, 2=338, 5=202.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-90
Trapezoidal Loads (plf)
Vert: 9=0(F=45, B=45)-to-4=-221(F=-66, B=-66), 2=-2(F=9, B=9)-to-5=-49(F=-15, B=-15)

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	HJ01	Roof Special Girder	8	1	T29127059

Builders FirstSource, Tampa, Plant City, Florida 33566

8.530 s May 26 2022 MiTek Industries, Inc. Thu Nov 3 10:11:24 2022 Page 1
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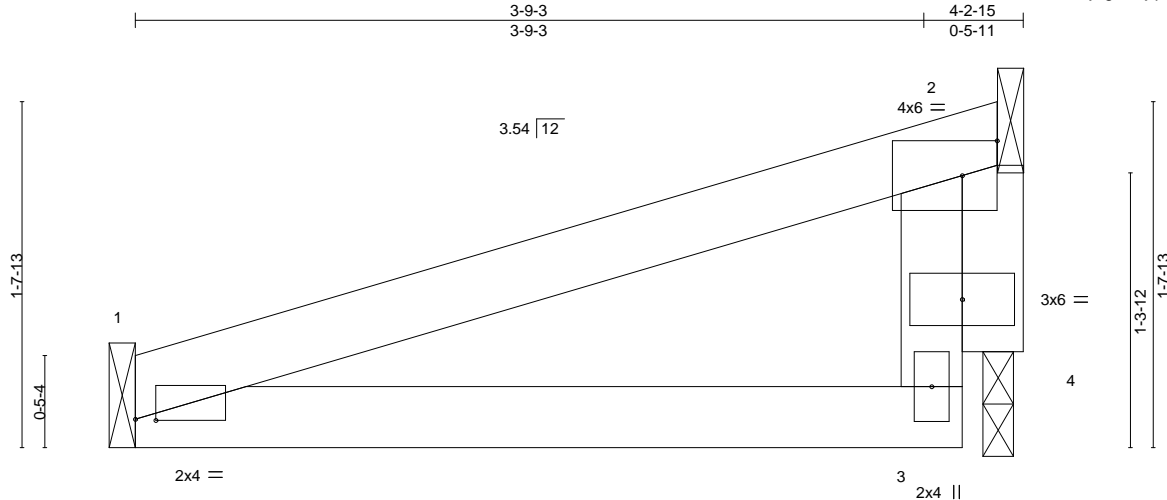


Plate Offsets (X,Y)--		[1:0-1-3,0-0-1]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 30.0	Plate Grip DOL 2-0-0	TC 0.23	in (loc) l/defl L/d
TCDL 15.0	Lumber DOL 1.33	BC 0.14	Vert(LL) -0.01 1-3 >999 240
BCLL 0.0 *	Rep Stress Incr NO	WB 0.04	Vert(CT) -0.02 1-3 >999 180
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P	Horz(CT) -0.00 2 n/a n/a
			PLATES MT20
			GRIP 244/190
			Weight: 15 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 4-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=Mechanical, 4=0-1-12, 2=Mechanical
Max Horz 4=59(LC 7)
Max Uplift 1=-71(LC 7), 2=-136(LC 8)
Max Grav 1=74(LC 1), 4=76(LC 7), 2=124(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 4 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) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 1 and 136 lb uplift at joint 2.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
Trapezoidal Loads (plf)
Vert: 1=0(F=45, B=45)-to-2=-95(F=-3, B=-3), 1=0(F=10, B=10)-to-3=-19(F=1, B=1)

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
HR0009	HJ2	Diagonal Hip Girder	4	1	T29127060

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:24 2022 Page 1

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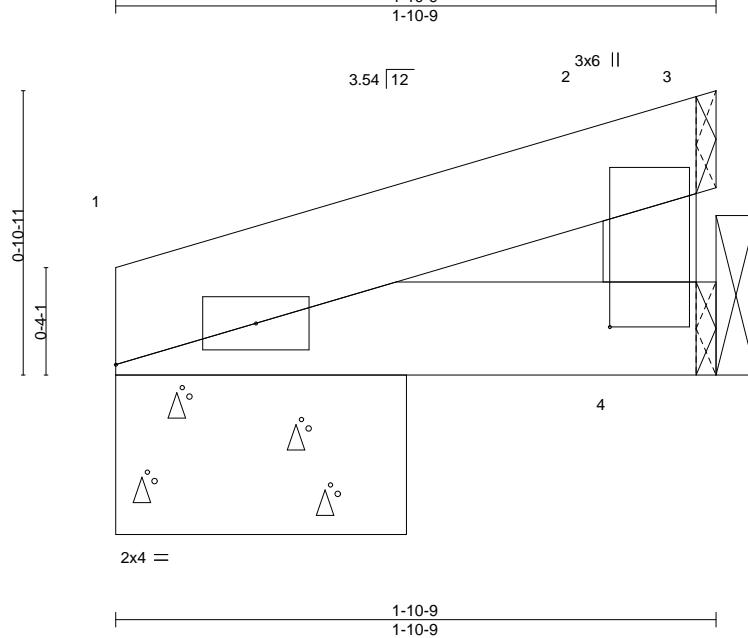


Plate Offsets (X,Y)-- [2:0-1-7,1-6-9]		SPACING-		CSL.		DEFL.		PLATES		GRIP	
LOADING (psf)											
TCLL	30.0	Plate Grip DOL	1.33	TC	0.11	Vert(LL)	-0.00 1 >999 240	MT20		244/190	
TCDL	15.0	Lumber DOL	1.33	BC	0.03	Vert(CT)	-0.00 1 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							
								Weight: 6 lb		FT = 20%	

LUMBER-

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

REACTIONS.

(size) 1=0-10-15, 4=Mechanical
Max Horz 1=41(LC 12)
Max Uplift 1=-36(LC 12), 4=-62(LC 12)
Max Grav 1=87(LC 1), 4=94(LC 1)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) 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) 1, 4.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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16023 Swingley Ridge Rd.
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Date:

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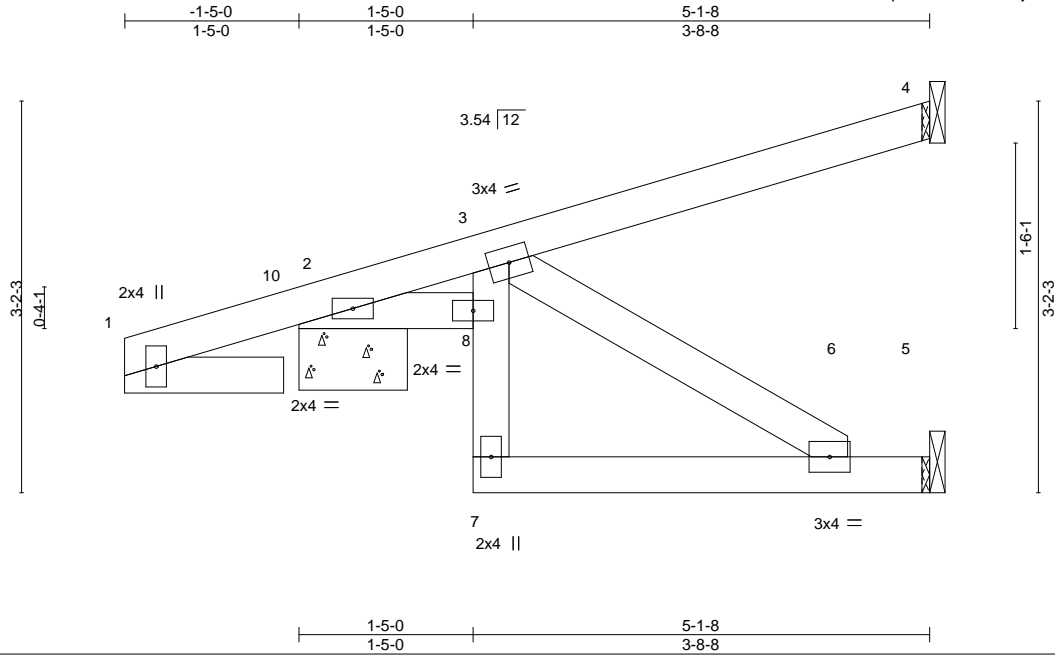
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	HJ3	Jack-Open Girder	2	1	T29127061

Builders FirstSource (Tampa, FL),

Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:25 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-W19QpvkB44kIO4x3HTJD20cu?xbfY98HKJza?DyNBrG



Scale = 1:18.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.28	Vert(LL)	-0.01	6-7	>999	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.21	Vert(CT)	-0.02	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.01	Horz(CT)	-0.01	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P					Weight: 27 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-7: 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-10-9, 5=Mechanical
Max Horz 2=100(LC 8)
Max Uplift 4=105(LC 8), 2=223(LC 8)
Max Grav 4=144(LC 1), 2=283(LC 1), 5=89(LC 3)

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

NOTES- (8)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); 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) 4=105, 2=223.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-90
Trapezoidal Loads (plf)
Vert: 10=0(F=45, B=45)-to-4=-115(F=-13, B=-13), 2=-2(F=9, B=9)-to-8=-8(F=6, B=6), 7=-8(F=6, B=6)-to-5=-26(F=-3, B=-3)

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
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Date:

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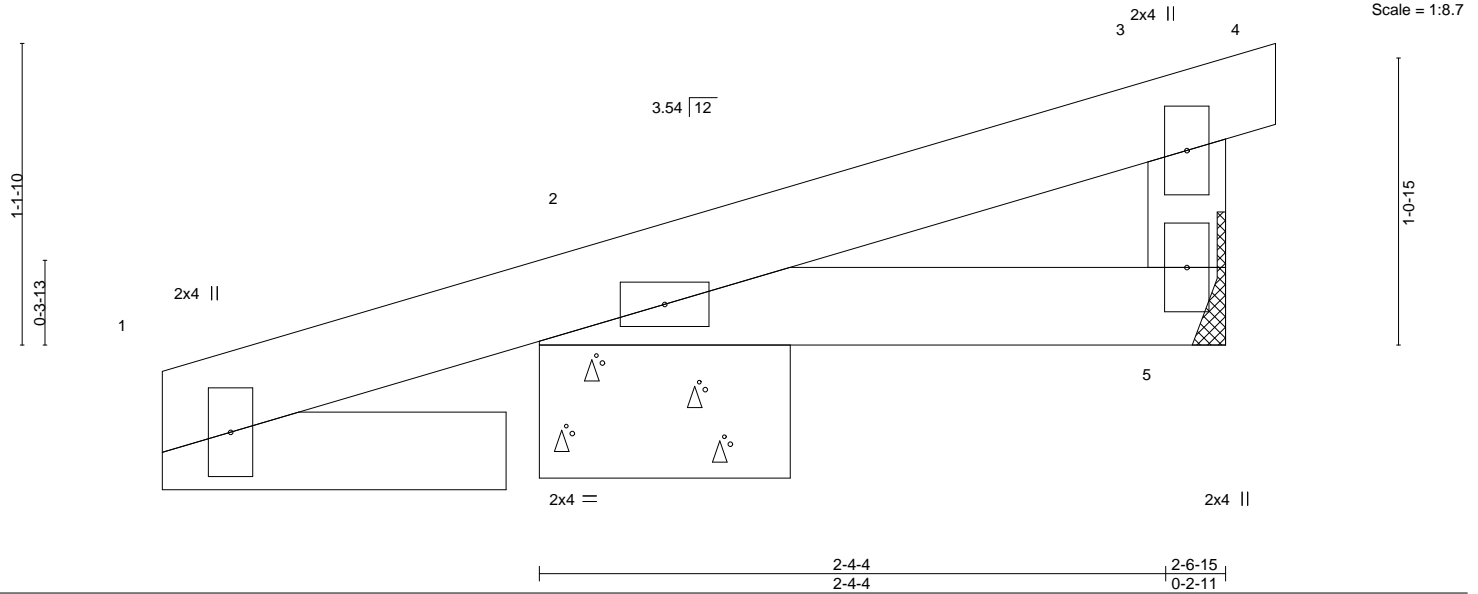
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	HJ04	Roof Special Girder	4	1	T29127062

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:23 2022 Page 1
ID:bzeMQ6aYnVsaPAR?PBKUKnzRR9V-ae1gODiwYTU18mngA3hlybXY47yh4Fa_t0UTwKyNBrl

-1-5-0 1-5-0 2-4-4 2-4-4 2-6-15 2-9-3 0-2-11 0-2-4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.31	Vert(LL)	-0.00	2-5	>999	MT20	244/190
TCDL 15.0	Lumber DOL 1.33	BC 0.05	Vert(CT)	-0.00	2-5	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					Weight: 13 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 2-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-11-5, 5=Mechanical
Max Horz 2=104(LC 8)
Max Uplift 2=-288(LC 8), 5=-51(LC 5)
Max Grav 2=336(LC 1), 5=82(LC 1)

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

NOTES- (9)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); 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 studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=288.
- 9) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022

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

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

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

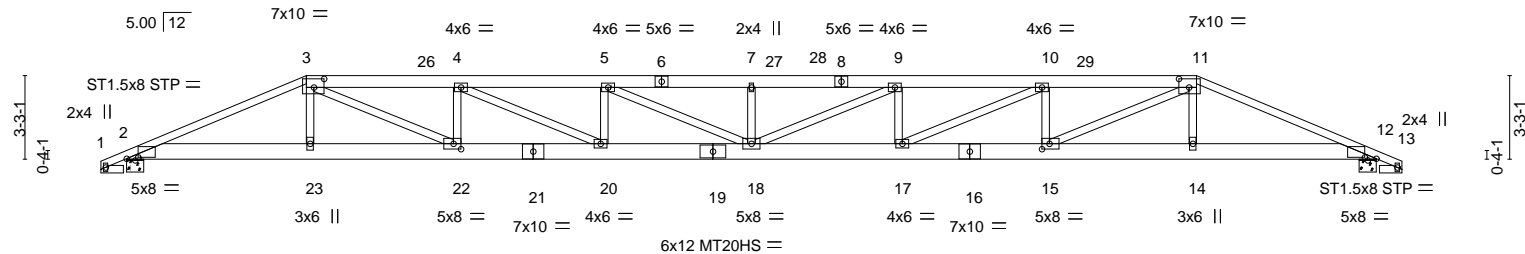


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	T01	HIP GIRDER	2	4	T29127063

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,		8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:27 2022 Page 1			
		ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-SPHBEbIRch_SdO4SPulh7Rh9nkG10sjaodSg35yNBRE			
-1-0-0	7-0-0	12-10-8	18-7-4	24-4-0	30-0-12
1-0-0	7-0-0	5-10-8	5-8-12	5-8-12	5-8-12
					35-9-8
					41-8-0
					48-8-0
					49-8-0
					1-0-0

Scale = 1:89.7



<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>7-0-07-0-012-10-85-10-818-7-45-8-1224-4-05-8-1230-0-125-8-1235-9-85-8-1241-8-05-10-848-8-07-0-0</div>												
Plate Offsets (X,Y)-- [2:0-5-6,0-0-10], [3:0-4-12,0-4-0], [11:0-4-12,0-4-0], [12:0-5-6,0-0-10], [15:0-3-8,0-2-8], [22:0-3-8,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	30.0	Plate Grip DOL	1.33	TC	0.52	Vert(LL)	0.79	18	>727	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.28	Vert(CT)	-1.14	18	>507	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-SH							Weight: 1339 lb	FT = 20%

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.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. (size) 2=0-8-0, 12=0-8-0
Max Horz 2=140(LC 7)
Max Uplift 2=-3174(LC 8), 12=-3174(LC 8)
Max Grav 2=6009(LC 13), 12=6009(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-14467/7409, 3-4=-20923/11013, 4-5=-25219/13326, 5-7=-26416/13965,
7-9=-26416/13965, 9-10=-25219/13326, 10-11=-20923/11013, 11-12=-14468/7409
BOT CHORD 2-23=-6674/13353, 22-23=-6696/13418, 20-22=-10765/20984, 18-20=-13081/25284,
17-18=-13081/25215, 15-17=-10765/20884, 14-15=-6696/13314, 12-14=-6674/13249
WEBS 3-23=-409/1235, 3-22=-4496/8470, 4-22=-3417/2027, 4-20=-2565/4830, 5-20=-1741/1117,
5-18=-835/1370, 7-18=-1098/787, 9-18=-835/1371, 9-17=-1742/1117, 10-17=-2565/4829,
10-15=-3417/2027, 11-15=-4496/8471, 11-14=-409/1236

- NOTES-** (13)
- 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
Attach TC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 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=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); 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 MT20 plates 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

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

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Chesterfield, MO 63017
Date:

November 3,2022

Continued on Page 124.

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p> <p>Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>		<p>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component</p>	
<p>MiTek</p> <p>16023 Swingley Ridge Rd Chesterfield, MO 63017</p>			

Job	Truss	Truss Type	Qty	Ply	T29127063
HR0009	T01	HIP GIRDER	2	4	Job Reference (optional)

Builders FirstSource (Tampa, FL),
Tampa, FL - 33564,
8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:27 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-SPHBEbIRch_SdO4SPulh7Rh9nkG10sjadSg35yNBrE

- NOTES-** (13)
- Girder carries hip end with 7-0-0 end setback.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1006 lb down and 432 lb up at 41-8-0, and 1006 lb down and 432 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-90, 3-11=-188(F=-97), 11-13=-90, 2-23=-20, 14-23=-42(F=-22), 12-14=-20
Concentrated Loads (lb)
Vert: 23=-706(F) 14=-706(F)

Job	Truss	Truss Type	Qty	Ply	
HR0009	T02	HIP	2	2	T29127064

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:28 2022 Page 1
ID:bzeMQ6aYnVnSaPAR?PBKUKnzRR9V-wcrZRxm3N?6JFXfezcGwfeEMK8WNIPBj0HBEcYyNBrD
-1-0-0 4-9-14 9-0-0 15-2-10 21-3-9 27-4-7 33-5-6 39-8-0 43-10-2 48-8-0 49-8-0
1-0-0 4-9-14 4-2-2 6-2-10 6-0-14 6-0-14 6-0-14 6-2-10 4-2-2 4-9-14 1-0-0

Scale = 1:90.2

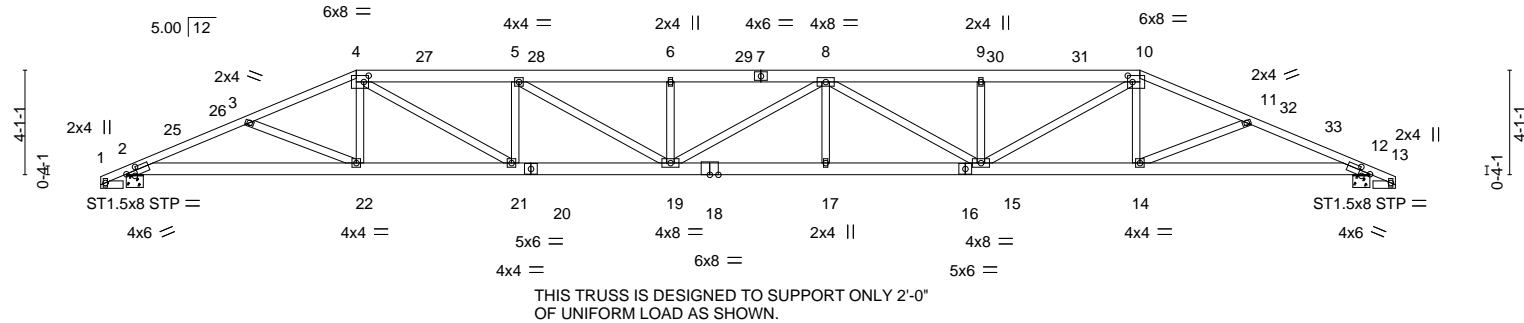


Plate Offsets (X,Y)--	[2:0-5-1,0-1-10], [4:0-2-4,0-3-0], [10:0-2-4,0-3-0], [12:0-5-1,0-1-10]
-----------------------	--

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.33	TC 0.40	Vert(LL) 0.50	17-19	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL 1.33	BC 0.66	Vert(CT) -0.78	17-19	>735	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.16	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 623 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-7,7-10: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-12 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-8-6 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 12=0-8-0
Max Horz 2=-175(LC 10)
Max Uplift 2=-1467(LC 12), 12=-1467(LC 12)
Max Grav 2=2760(LC 1), 12=2760(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5963/3303, 3-4=-5613/3074, 4-5=-7498/4203, 5-6=-8599/4717, 6-8=-8599/4717,
8-9=-7493/4196, 9-10=-7495/4198, 10-11=-5614/3075, 11-12=-5963/3304
BOT CHORD 2-22=-2899/5387, 21-22=-2581/5142, 19-21=-3879/7496, 17-19=-4386/8605,
15-17=-4386/8605, 14-15=-2573/5142, 12-14=-2919/5387
WEBS 3-22=-320/380, 4-22=-101/362, 4-21=-1507/2832, 5-21=-1333/794, 5-19=-664/1370,
6-19=-536/367, 8-15=-1381/679, 9-15=-626/480, 10-15=-1500/2828, 10-14=-103/363,
11-14=-321/380

- NOTES-** (10)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 9-0-0, Exterior(2R) 9-0-0 to 15-10-9, Interior(1) 15-10-9 to 39-8-0, Exterior(2R) 39-8-0 to 46-6-9, Interior(1) 46-6-9 to 49-8-0 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1467, 12=1467.

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
November 3,2022

Job	Truss	Truss Type	Qty	Ply	T29127064
HR0009	T02	HIP	2	2	Job Reference (optional)

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:29 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-PoOxfHnh8JEathEqWJo9CsmX4YrcUsQtFxxn8_yNBrC

10) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127065
HR0009	T03	Hip	2	1	

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:30 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-t_yJscvJvcM1Urp141JOk3JdlyF5DFF0UbgLgQyNBrB

1-0-0 5-9-14 11-0-0 17-8-0 24-4-0 31-0-0 37-8-0 42-10-2 48-8-0 49-8-0
1-0-0 5-9-14 5-2-2 6-8-0 6-8-0 6-8-0 6-8-0 5-2-2 5-9-14 1-0-0

Scale = 1:89.7

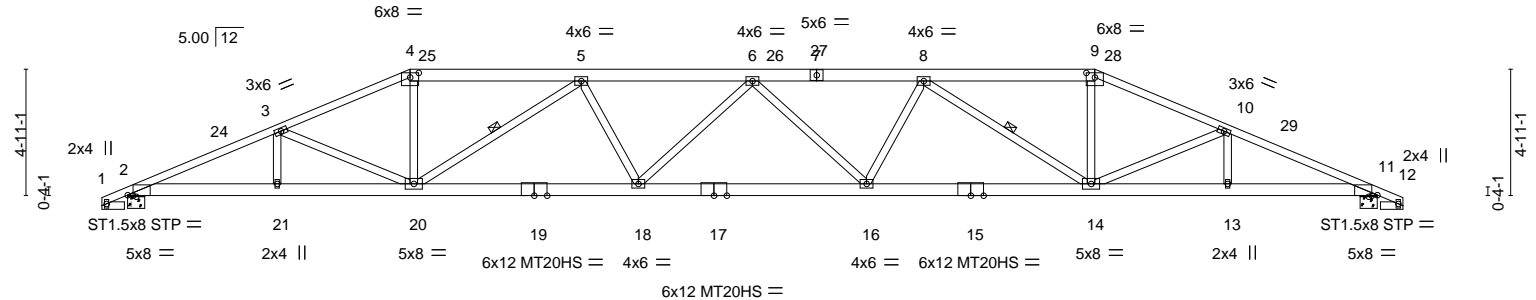


Plate Offsets (X,Y)--	[2:0-2-9,Edge], [4:0-4-0,0-2-2], [9:0-4-0,0-2-2], [11:0-2-9,Edge]
-----------------------	---

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.33	TC 0.73	Vert(LL) 0.63	16-18	>919	240	MT20	244/190
TCDL 15.0	Lumber DOL 1.33	BC 0.39	Vert(CT) -1.00	16-18	>575	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.73	Horz(CT) 0.21	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 306 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
4-7,7-9: 2x6 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.
WEBS 1 Row at midpt 5-20, 8-14

REACTIONS.

(size) 2=0-8-0, 11=0-8-0
Max Horz 2=-210(LC 10)
Max Uplift 2=-1467(LC 12), 11=-1467(LC 12)
Max Grav 2=2760(LC 1), 11=2760(LC 1)

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

TOP CHORD 2-3=-5934/3248, 3-4=-5382/2982, 4-5=-4947/2856, 5-6=-6814/3824, 6-8=-6814/3827,
8-9=-4947/2853, 9-10=-5382/2986, 10-11=-5934/3241
BOT CHORD 2-21=-2843/5356, 20-21=-2843/5356, 18-20=-3384/6584, 16-18=-3626/7107,
14-16=-3365/6584, 13-14=-2857/5356, 11-13=-2857/5356
WEBS 3-20=-552/454, 4-20=-770/1535, 5-20=-2123/1114, 5-18=-170/593, 6-18=-509/296,
6-16=-509/296, 8-16=-170/593, 8-14=-2123/1115, 9-14=-768/1535, 10-14=-554/450

NOTES- (9)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 11-0-0, Exterior(2R) 11-0-0 to 17-8-0, Interior(1) 17-8-0 to 37-8-0, Exterior(2R) 37-8-0 to 44-6-9, Interior(1) 44-6-9 to 49-8-0 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.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1467, 11=1467.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Chesterfield, MO 63017
Date:

November 3,2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127066
HR0009	T04	Hip	2	1	

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:32 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-pN44HlpaREck9zPCSLsqUO1nloah9dJxv9RIJyNBr9

1-0-0 6-9-14 13-0-0 18-8-0 24-4-0 30-0-0 35-8-0 41-10-2 48-8-0 49-8-0
1-0-0 6-9-14 6-2-2 5-8-0 5-8-0 5-8-0 5-8-0 6-2-2 6-9-14 1-0-0

Scale = 1:89.7

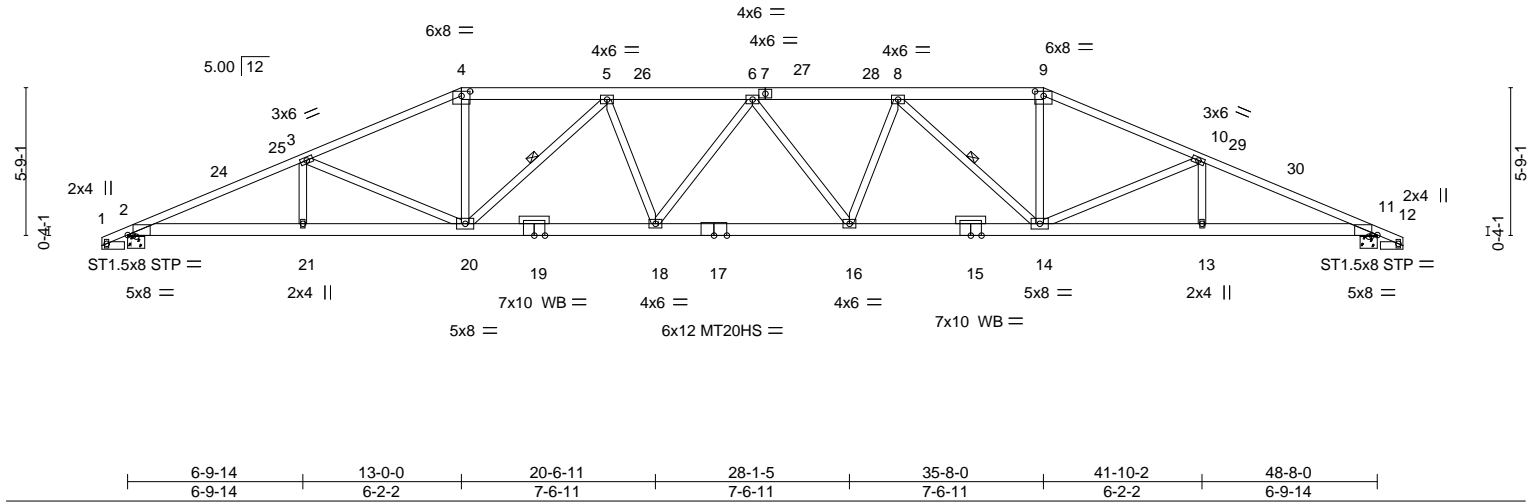


Plate Offsets (X,Y)--		[2:0-2-9,Edge], [4:0-4-0,0-2-2], [9:0-4-0,0-2-2], [11:0-2-9,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.33	TC	0.50	Vert(LL)	0.57 16-18	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.96	Vert(CT)	-0.91 16-18	>633	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.28 11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-SH						Weight: 314 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*
4-7,7-9: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-20, 8-14

REACTIONS.

(size) 2=0-8-0, 11=0-8-0
Max Horz 2=-246(LC 10)
Max Uplift 2=-1467(LC 12), 11=-1467(LC 12)
Max Grav 2=2760(LC 1), 11=2760(LC 1)

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

TOP CHORD 2-3=-5941/3251, 3-4=-5128/2877, 4-5=-4679/2770, 5-6=-5802/3355, 6-8=-5802/3355,
8-9=-4679/2770, 9-10=-5128/2877, 10-11=-5941/3251
BOT CHORD 2-21=-2837/5354, 20-21=-2837/5354, 18-20=-2879/5660, 16-18=-3031/5984,
14-16=-2858/5660, 13-14=-2857/5354, 11-13=-2857/5354
WEBS 3-20=-823/597, 4-20=-729/1430, 5-20=-1526/786, 5-18=-144/523, 6-18=-429/228,
6-16=-429/228, 8-16=-144/523, 8-14=-1526/786, 9-14=-729/1430, 10-14=-825/597

NOTES- (9)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 13-0-0, Exterior(2R) 13-0-0 to 19-10-9, Interior(1) 19-10-9 to 35-8-0, Exterior(2R) 35-8-0 to 42-6-9, Interior(1) 42-6-9 to 49-8-0 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.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1467, 11=1467.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127067
HR0009	T05	Hip	2	1	

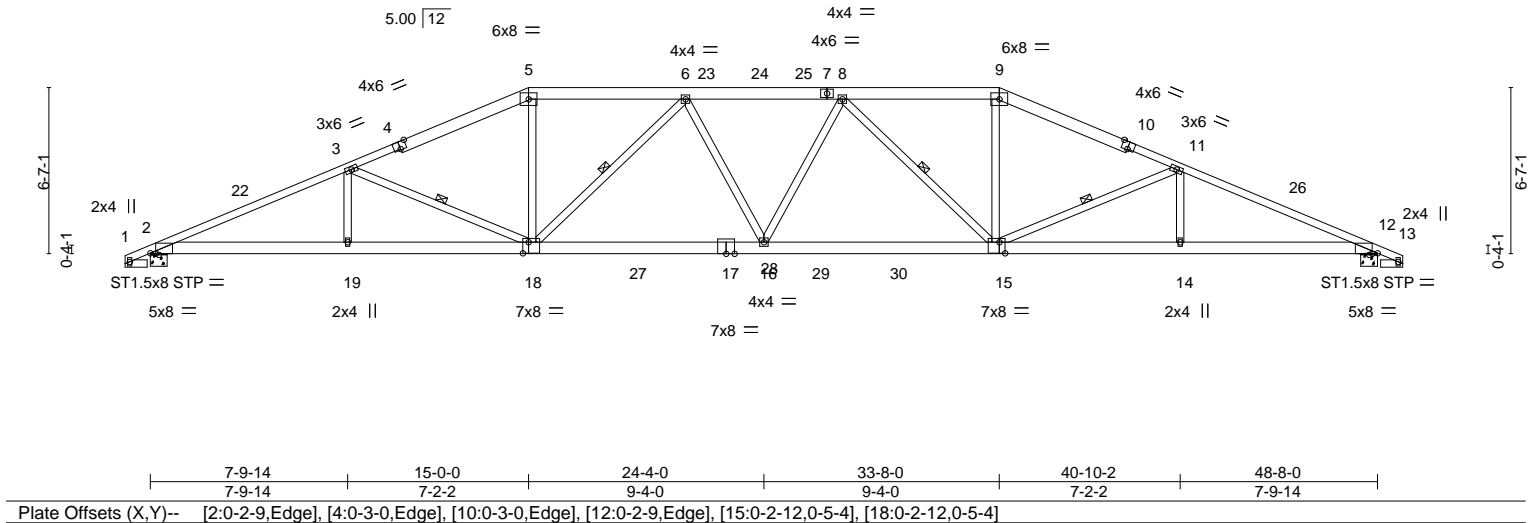
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:33 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-HZeSueqCCXkcLJYbl9s5MixAE98mQgiSAZv?HlyNBr8

1-0-0 7-9-14 15-0-0 21-2-11 27-5-5 33-8-0 40-10-2 48-8-0 49-8-0
1-0-0 7-9-14 7-2-2 6-2-11 6-2-11 6-2-11 7-2-2 7-9-14 1-0-0

Scale = 1:91.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.96	Vert(LL) 0.45 16 >999 240		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.49	Vert(CT) -0.77 16-18 >751 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.22 12 n/a n/a		
	Code FBC2020/TPI2014			Weight: 313 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4,10-13: 2x4 SP M 31
BOT CHORD 2x6 SP No.2 *Except*
2-18,12-15: 2x6 SP M 26
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-18, 6-18, 8-15, 11-15

REACTIONS.

(size) 2=0-8-0, 12=0-8-0
Max Horz 2=-279(LC 10)
Max Uplift 2=-1467(LC 12), 12=-1467(LC 12)
Max Grav 2=2930(LC 17), 12=2930(LC 18)

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

TOP CHORD 2-3=-6202/3215, 3-5=-5147/2786, 5-6=-4686/2686, 6-8=-5406/3040, 8-9=-4686/2686,
9-11=-5147/2786, 11-12=-6204/3216
BOT CHORD 2-19=-2786/5783, 18-19=-2786/5783, 16-18=-2568/5402, 15-16=-2551/5321,
14-15=-2807/5575, 12-14=-2807/5575
WEBS 3-19=0/295, 3-18=-1070/676, 5-18=-607/1379, 6-18=-1151/572, 6-16=-42/329,
8-16=-42/329, 8-15=-1151/571, 9-15=-606/1379, 11-15=-1072/676, 11-14=0/295

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 15-0-0, Exterior(2R) 15-0-0 to 21-10-9, Interior(1) 21-10-9 to 33-8-0, Exterior(2R) 33-8-0 to 40-10-2, Interior(1) 40-10-2 to 49-8-0 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.
- 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=-1467, 12=-1467.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Chesterfield, MO 63017
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November 3,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	T06	Hip	2	1	T29127068

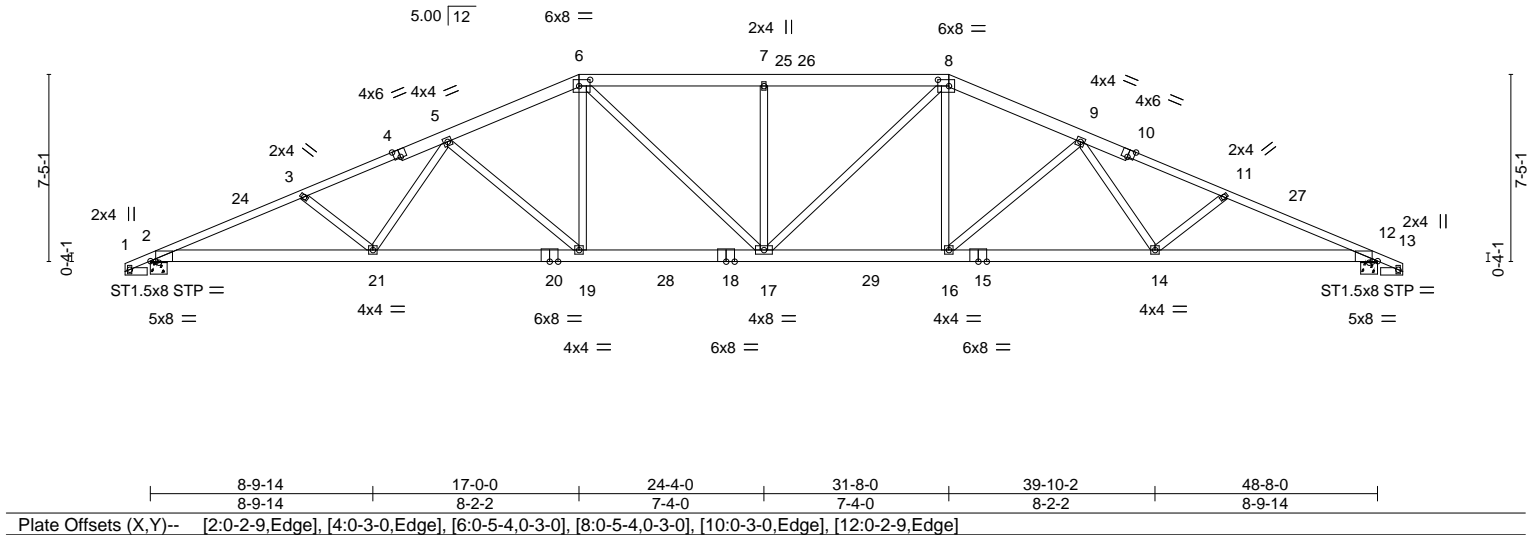
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:35 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-DymCvKsSk9?Kbch_tauZR70RkzrvuT4IdtO6LeyNBr6

1-0-0 6-1-3 11-9-7 17-0-0 24-4-0 31-8-0 36-10-9 42-6-13 48-8-0 49-8-0
1-0-0 6-1-3 5-8-3 5-2-9 7-4-0 7-4-0 5-2-9 5-8-3 6-1-3 1-0-0

Scale = 1:91.4



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.33	TC 0.90	Vert(LL) 0.45	17	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL 1.33	BC 0.86	Vert(CT) -0.72	17-19	>795	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.94	Horz(CT) 0.19	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 325 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4,10-13: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
2-20,12-15: 2x6 SP M 26
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-8-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-11 oc bracing.

REACTIONS.

(size) 2=0-8-0, 12=0-8-0
Max Horz 2=-315(LC 10)
Max Uplift 2=-1467(LC 12), 12=-1467(LC 12)
Max Grav 2=2932(LC 17), 12=2932(LC 18)

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

TOP CHORD 2-3=-6235/3256, 3-5=-5904/3128, 5-6=-4786/2702, 6-7=-4802/2830, 7-8=-4802/2830,
8-9=-4786/2702, 9-11=-5905/3128, 11-12=-6236/3256
BOT CHORD 2-21=-2843/5858, 19-21=-2496/5243, 17-19=-2009/4524, 16-17=-2029/4343,
14-16=-2516/5007, 12-14=-2864/5623
WEBS 3-21=-375/349, 5-21=-188/639, 5-19=-990/663, 6-19=-413/988, 6-17=-375/874,
7-17=-730/546, 8-17=-375/874, 8-16=-413/989, 9-16=-990/663, 9-14=-188/640,
11-14=-375/349

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 17-0-0, Exterior(2R) 17-0-0 to 23-10-9, Interior(1) 23-10-9 to 31-8-0, Exterior(2R) 31-8-0 to 38-6-9, Interior(1) 38-6-9 to 49-8-0 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.
- 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=1467, 12=1467.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Chesterfield, MO 63017
Date:

November 3,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	T07	Hip	2	1	T29127069

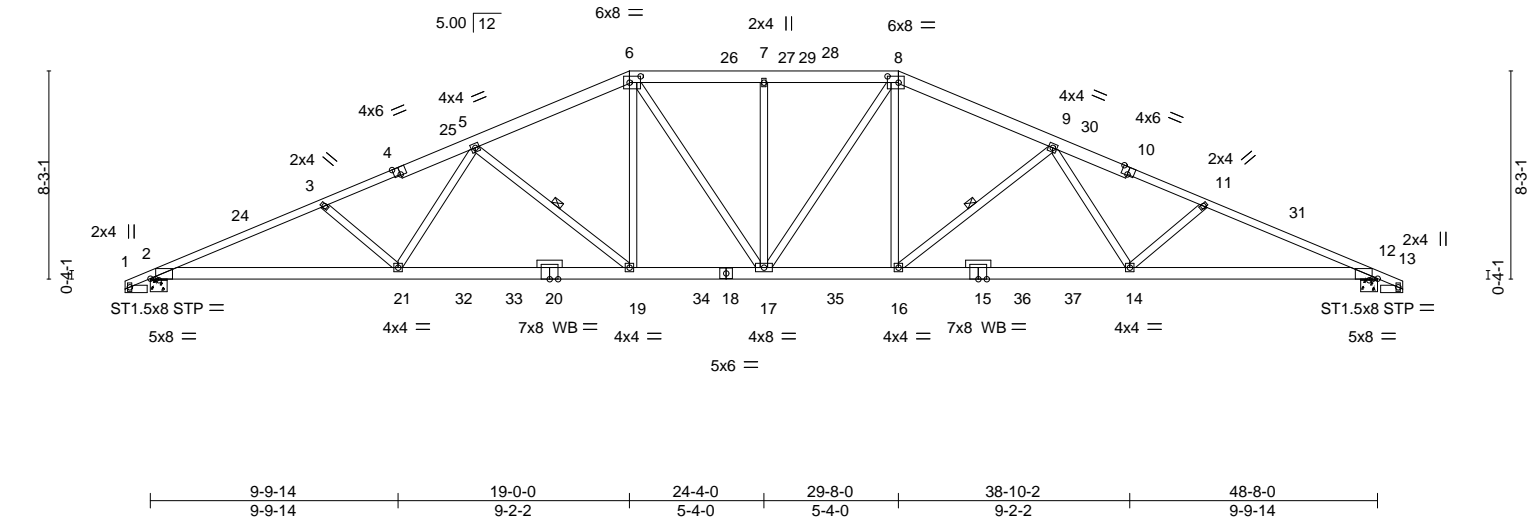
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:36 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-h8Jb7gs4VS7BCmGARHQo_KZc5MB0d0LvsX7fu4yNBr5

1-0-0 6-10-15 12-10-10 19-0-0 24-4-0 29-8-0 35-9-6 41-9-1 48-8-0 49-8-0
1-0-0 6-10-15 5-11-11 6-1-6 5-4-0 5-4-0 6-1-6 5-11-11 6-10-15 1-0-0

Scale = 1:91.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	30.0	Plate Grip DOL	1.33	TC	0.93	Vert(LL)	0.40 17 >999	240	MT20	244/190	
TCDL	15.0	Lumber DOL	1.33	BC	0.87	Vert(CT)	-0.67 14-16 >858	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.19 12 n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-SH					Weight: 336 lb	FT = 20%	

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4,10-13: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
2-20,12-15: 2x6 SP M 26
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 4-9-8 oc bracing.
WEBS 1 Row at midpt 5-19, 9-16

REACTIONS.

(size) 2=0-8-0, 12=0-8-0
Max Horz 2=-350(LC 10)
Max Uplift 2=-1467(LC 12), 12=-1467(LC 12)
Max Grav 2=2951(LC 17), 12=2951(LC 18)

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

TOP CHORD 2-3=-6236/3222, 3-5=-5870/3090, 5-6=-4514/2576, 6-7=-4286/2584, 7-8=-4286/2584,
8-9=-4514/2576, 9-11=-5871/3090, 11-12=-6237/3222
BOT CHORD 2-21=-2800/5877, 19-21=-2418/5169, 17-19=-1846/4264, 16-17=-1867/4097,
14-16=-2439/4907, 12-14=-2821/5616
WEBS 3-21=-431/385, 5-21=-234/788, 5-19=-1205/756, 6-19=-447/1093, 6-17=-241/608,
7-17=-496/379, 8-17=-241/608, 8-16=-447/1093, 9-16=-1206/755, 9-14=-234/789,
11-14=-431/385

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 19-0-0, Exterior(2R) 19-0-0 to 25-10-9, Interior(1) 25-10-9 to 29-8-0, Exterior(2R) 29-8-0 to 36-6-9, Interior(1) 36-6-9 to 49-8-0 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.
- 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=1467, 12=1467.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127070
HR0009	T08	Hip	2	1	

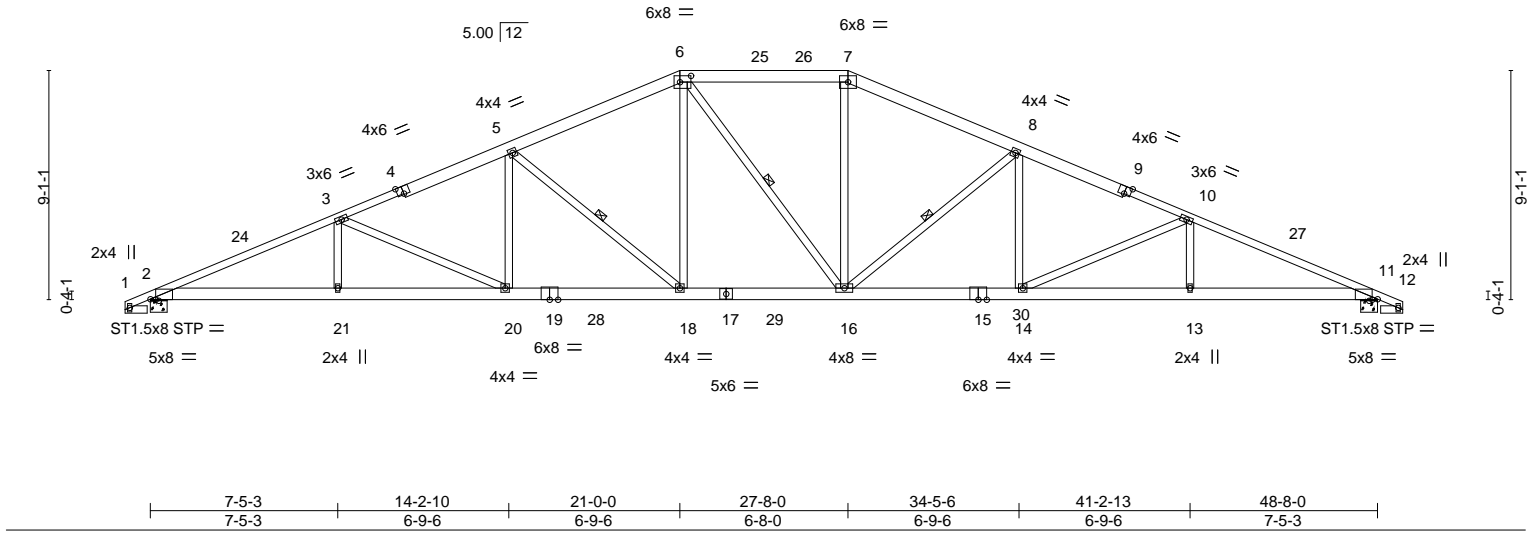
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:38 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-eXRLXLuL04NvS4QZYiSG3le2pAuq5p0BJrcmyzyNBr3

1-0-0 7-5-3 14-2-10 21-0-0 27-8-0 34-5-6 41-2-13 48-8-0 49-8-0
1-0-0 7-5-3 6-9-6 6-9-6 6-8-0 6-9-6 6-9-6 7-5-3 1-0-0

Scale = 1:91.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	30.0	Plate Grip DOL	1.33	TC	0.53	Vert(LL)	0.37 18 >999	MT20		244/190	
TCDL	15.0	Lumber DOL	1.33	BC	0.78	Vert(CT)	-0.62 18-20 >924				
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.20 11 n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-SH							
								Weight: 333 lb		FT = 20%	

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4,9-12: 2x4 SP M 31
BOT CHORD 2x6 SP No.2 *Except*
2-19,11-15: 2x6 SP M 26
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

REACTIONS.

(size) 2=0-8-0, 11=0-8-0
Max Horz 2=385(LC 11)
Max Uplift 2=-1467(LC 12), 11=-1467(LC 12)
Max Grav 2=2938(LC 17), 11=2935(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6250/3194, 3-5=-5282/2879, 5-6=-4213/2457, 6-7=-3811/2380, 7-8=-4208/2458,
8-10=-5272/2879, 10-11=-6244/3194
BOT CHORD 2-21=-2767/5908, 20-21=-2767/5908, 18-20=-2306/5033, 16-18=-1688/3953,
14-16=-2327/4748, 13-14=-2788/5615, 11-13=-2788/5615
WEBS 3-21=0/291, 3-20=-960/521, 5-20=-173/669, 5-18=-1434/816, 6-18=-485/1195,
6-16=-341/351, 7-16=-490/1080, 8-16=-1427/813, 8-14=-171/665, 10-14=-964/522,
10-13=0/292

NOTES-

- (8) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 21-0-0, Exterior(2E) 21-0-0 to 27-8-0, Exterior(2R) 27-8-0 to 34-5-6, Interior(1) 34-5-6 to 49-8-0 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.
- 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=1467, 11=1467.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127071
HR0009	T09	Hip	2	1	

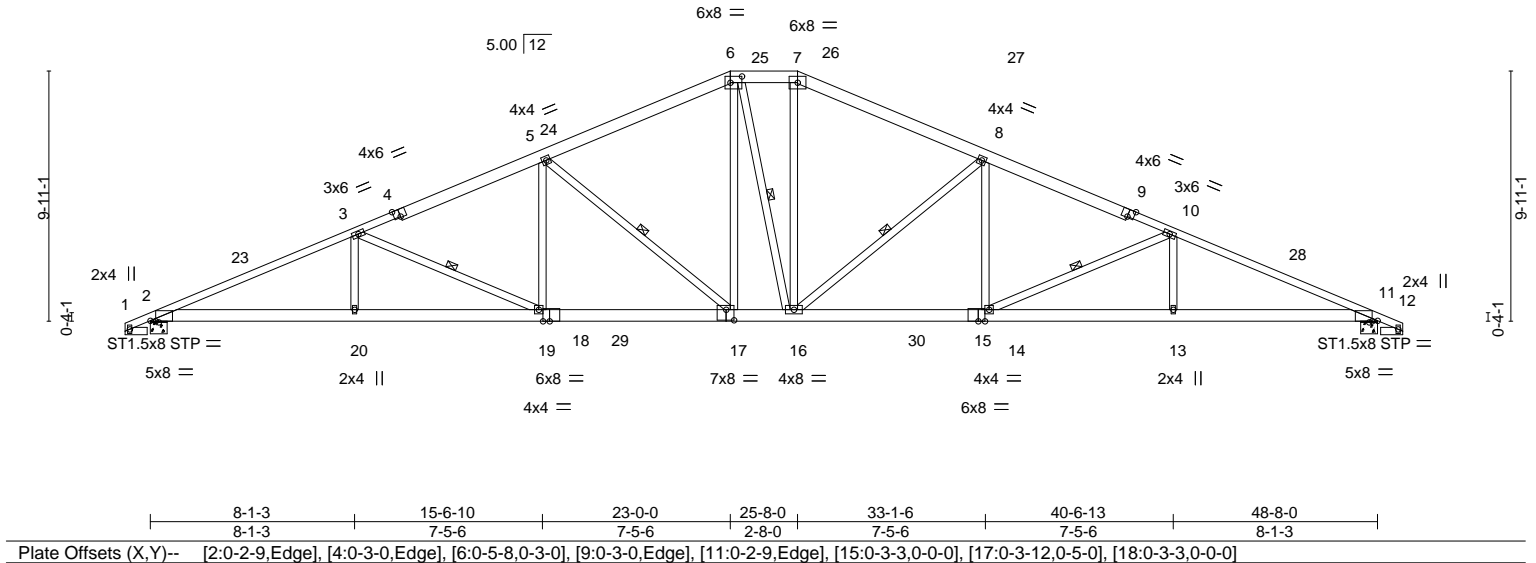
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:39 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-6j?jlhvznNVl3E?i6QzVczBCraE8qHELYVMJUPyNBr2

1-0-0 8-1-3 15-6-10 23-0-0 25-8-0 33-1-6 40-6-13 48-8-0 49-8-0
1-0-0 8-1-3 7-5-6 7-5-6 2-8-0 7-5-6 7-5-6 8-1-3 1-0-0

Scale = 1:91.4



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.33	TC 0.64	Vert(LL) 0.38	17-19	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL 1.33	BC 0.77	Vert(CT) -0.65	17-19	>887	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(CT) 0.20	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 343 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4,9-12: 2x4 SP M 31
BOT CHORD 2x6 SP No.2 *Except*
2-18,11-15: 2x6 SP M 26
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

REACTIONS.

(size) 2=0-8-0, 11=0-8-0
Max Horz 2=421(LC 11)
Max Uplift 2=1467(LC 12), 11=1467(LC 12)
Max Grav 2=2909(LC 17), 11=2909(LC 18)

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

TOP CHORD 2-3=-6129/3093, 3-5=-5028/2723, 5-6=-3869/2258, 6-7=-3495/2202, 7-8=-3883/2265,
8-10=-5022/2720, 10-11=-6133/3094
BOT CHORD 2-20=-2665/5817, 19-20=-2665/5817, 17-19=-2134/4809, 16-17=-1449/3585,
14-16=-2151/4543, 13-14=-2686/5505, 11-13=-2686/5505
WEBS 3-20=0/325, 3-19=-1103/598, 5-19=-196/765, 5-17=-1618/908, 6-17=-534/1163,
6-16=-312/404, 7-16=-560/1105, 8-16=-1589/893, 8-14=-188/749, 10-14=-1113/602,
10-13=0/329

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 23-0-0, Exterior(2E) 23-0-0 to 25-8-0, Exterior(2R) 25-8-0 to 32-6-9, Interior(1) 32-6-9 to 49-8-0 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.
- 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=1467, 11=1467.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	T10	Common	2	1	T29127072

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,			8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:41 2022 Page 1		
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-267TANwDJ?ITJX98Dr?zhOGUINw4IBCe0prQZHyNBr0					
-1-0-0	6-6-14	12-5-14	18-4-15	24-4-0	30-3-1
1-0-0	6-6-14	5-11-1	5-11-1	5-11-1	5-11-1
					36-2-3
					42-1-2
					48-8-0
					49-8-0
					6-6-14
					1-0-0

Scale = 1:91.4

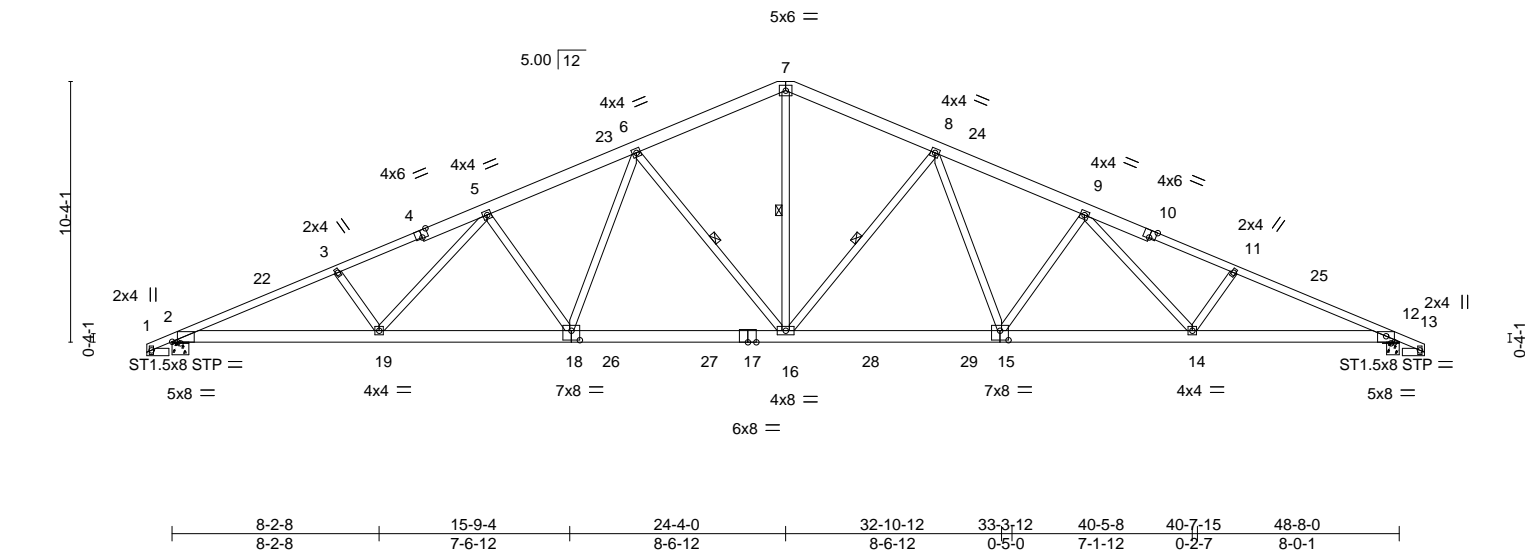


Plate Offsets (X,Y)--		[2:0-2-9,Edge], [4:0-3-0,Edge], [10:0-3-0,Edge], [12:0-4-0,Edge], [15:0-4-0,0-4-8], [18:0-4-0,0-4-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 30.0	2-0-0	TC 0.83	in (loc) l/defl L/d
TCDL 15.0	Plate Grip DOL 1.33	BC 0.81	Vert(LL) 0.42 16 >999 240
BCLL 0.0 *	Lumber DOL 1.33	WB 0.84	Vert(CT) -0.72 15-16 >798 180
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.19 12 n/a n/a
	Code FBC2020/TPI2014		
		PLATES	GRIP
		MT20	244/190
		Weight: 332 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-4,10-13: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 1-11-10 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* 2-18,12-15: 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 5-5-10 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-16, 7-16, 8-16
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 12=0-6-0
Max Horz 2=-444(LC 10)
Max Uplift 2=-1469(LC 12), 12=-1461(LC 12)
Max Grav 2=2925(LC 17), 12=2919(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6209/3097, 3-5=-5963/3057, 5-6=-4960/2688, 6-7=-3747/2174, 7-8=-3747/2175,
8-9=-4974/2696, 9-11=-6021/3088, 11-12=-6274/3133
BOT CHORD 2-19=-2685/5925, 18-19=-2303/5239, 16-18=-1833/4357, 15-16=-1858/4162,
14-15=-2335/4953, 12-14=-2740/5664
WEBS 3-19=-385/344, 5-19=-312/756, 5-18=-914/584, 6-18=-476/1162, 6-16=-1454/872,
7-16=-1274/2376, 8-16=-1468/879, 8-15=-484/1177, 9-15=-933/594, 9-14=-336/798,
11-14=-412/362

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 24-4-0, Exterior(2R) 24-4-0 to 31-2-9, Interior(1) 31-2-9 to 49-8-0 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=1469, 12=1461.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	T11	Common	20	1	T29127073

Builders FirstSource (Tampa, FL),	Tampa, FL - 33564,	8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:43 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-_UFEB3yTrc?BYrJWLF2RmpMqkBbfm5lwT7KXdAyNBr_		
-1-0-0	6-6-14	12-5-14
1-0-0	6-6-14	5-11-1
		5-11-1
		5-11-1
		5-11-1
		5-11-1
		5-11-2
		5-10-15
		6-6-14
		1-0-0

Scale = 1:88.1

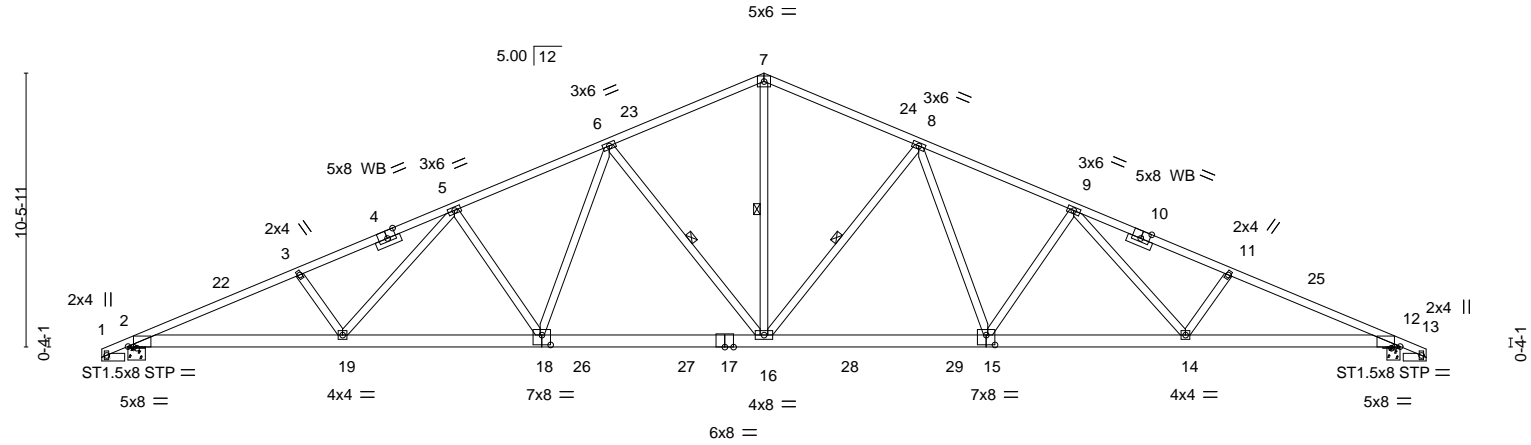


Plate Offsets (X,Y)--	[2:0-2-9,Edge], [4:0-4-0,Edge], [10:0-4-0,Edge], [12:0-2-9,Edge], [15:0-4-0,0-4-8], [18:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.80	Vert(LL) 0.44 16 >999 240		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.84	Vert(CT) -0.75 15-16 >774 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.19 12 n/a n/a		
	Code FBC2020/TPI2014			Weight: 311 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP M 31 *Except* 1-4,10-13: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-1-2 oc purlins.
BOT CHORD 2x6 SP M 26 *Except* 15-17,17-18: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-5-6 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-16, 7-16, 8-16
OTHERS 2x4 SP No.3	

REACTIONS.	(size) 2=0-8-0, 12=0-6-0
	Max Horz 2=447(LC 11)
	Max Uplift 2=-1469(LC 12), 12=-1461(LC 12)
	Max Grav 2=2926(LC 17), 12=2920(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-6232/3169, 3-5=-5971/3120, 5-6=-4915/2728, 6-7=-3717/2223, 7-8=-3717/2224, 8-9=-4929/2736, 9-11=-6029/3152, 11-12=-6297/3205
BOT CHORD	2-19=-2756/5955, 18-19=-2319/5180, 16-18=-1867/4316, 15-16=-1875/4118, 14-15=-2335/4894, 12-14=-2794/5691
WEBS	3-19=-453/390, 5-19=-355/831, 5-18=-903/577, 6-18=-474/1158, 6-16=-1442/872, 7-16=-1272/2366, 8-16=-1455/878, 8-15=-482/1174, 9-15=-922/587, 9-14=-377/874, 11-14=-481/409

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCCL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 24-4-0, Exterior(2R) 24-4-0 to 29-2-6, Interior(1) 29-2-6 to 49-8-0 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=1469, 12=1461.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	T12	Common	2	1	T29127074

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:44 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-ThocoPz5cw72A?tjvzZgJ0u?CbxtVY_4in349cyNBqz
-1-0-0 6-6-14 12-5-14 18-4-15 24-4-0 30-3-1 36-2-3 42-1-2 48-8-0 49-8-0
1-0-0 6-6-14 5-11-1 5-11-1 5-11-1 5-11-1 5-11-2 5-10-15 6-6-14 1-0-0

Scale = 1:87.0

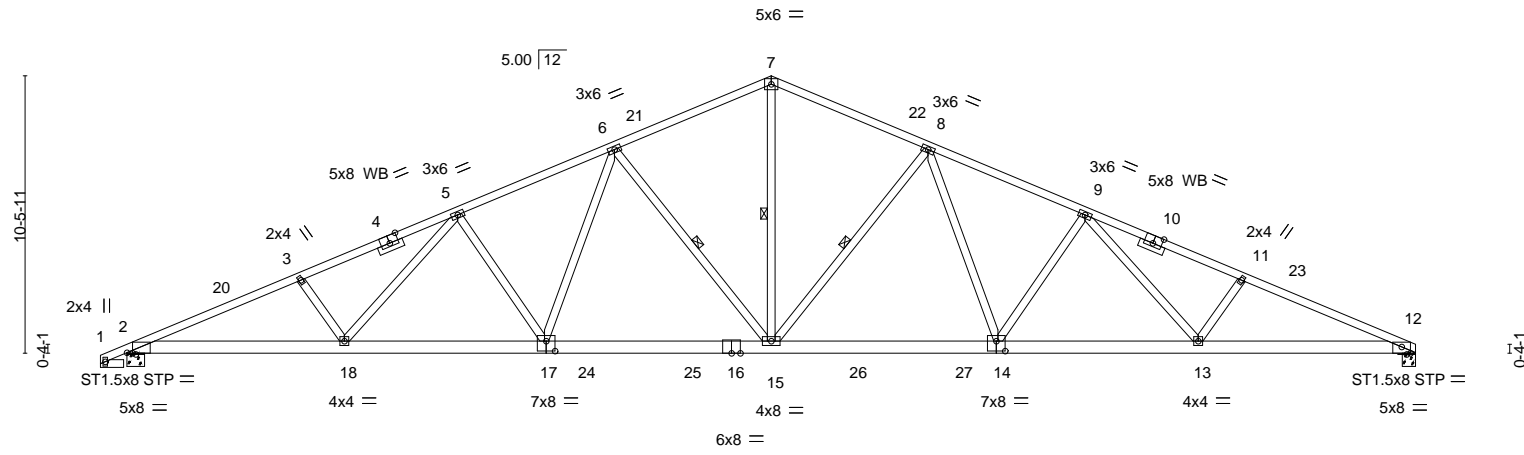


Plate Offsets (X,Y)--	[2:0-2-9,Edge], [4:0-4-0,Edge], [10:0-4-0,Edge], [12:0-4-0,Edge], [14:0-4-0,0-4-8], [17:0-4-0,0-4-8]
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LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.33		TC 0.79	Vert(LL) 0.44	15	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL 1.33		BC 0.80	Vert(CT) -0.75	14-15	>772	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.84	Horz(CT) 0.19	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH					Weight: 308 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP M 31 *Except* 1-4,10-12: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-0-11 oc purlins.
BOT CHORD 2x6 SP M 26 *Except* 14-16,16-17: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-15, 7-15, 8-15
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 12=0-6-0
Max Horz 2=445(LC 11)
Max Uplift 2=1471(LC 12), 12=1337(LC 12)
Max Grav 2=2927(LC 17), 12=2820(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6234/3171, 3-5=-5973/3122, 5-6=-4918/2730, 6-7=-3720/2225, 7-8=-3720/2235,
8-9=-4934/2758, 9-11=-6051/3221, 11-12=-6319/3277
BOT CHORD 2-18=-2825/5944, 17-18=-2389/5169, 15-17=-1937/4305, 14-15=-1905/4118,
13-14=-2388/4898, 12-13=-2894/5714
WEBS 3-18=-453/390, 5-18=-354/832, 5-17=-903/577, 6-17=-474/1158, 6-15=-1442/871,
7-15=-1281/2368, 8-15=-1458/880, 8-14=-494/1178, 9-14=-929/606, 9-13=-426/890,
11-13=-484/429

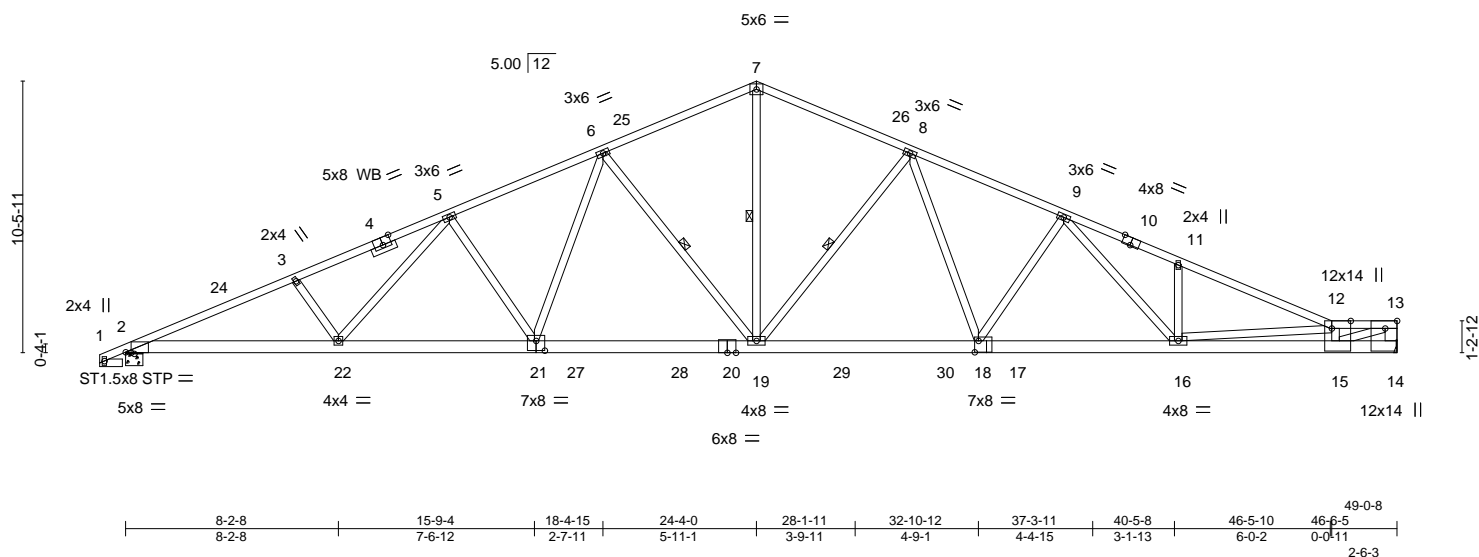
- NOTES-** (7)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-6, Interior(1) 3-10-6 to 24-4-0, Exterior(2R) 24-4-0 to 29-2-6, Interior(1) 29-2-6 to 48-5-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1471, 12=1337.
 - 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
November 3,2022

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:46 2022 Page 1
 ID:bzeMQ6aYnVsPaPAR?PBKUkNZRR9V-P3wMD5_M8XNmPI150Ob8OR_LgOcrzSDN95YBDVyNBqx

 2-6-3 Scale = 1:88.9



LUMBER-		BRACING-	
TOP CHORD	2x4 SP M 31 *Except* 12-13: 2x4 SP No.2, 1-4: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-1-8 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2 *Except* 2-21,14-17: 2x6 SP M 26	BOT CHORD	Rigid ceiling directly applied or 4-8-11 oc bracing.
WEBS	2x4 SP No.3 *Except* 13-14: 2x6 SP No.2, 13-15: 2x4 SP No.1	WEBS	1 Row at midpt 7-19, 6-19, 8-19
OTHERS	2x4 SP No.3		

REACTIONS. (size) 14=Mechanical, 2=0-8-0
 Max Horz 2=430(LC 11)
 Max Uplift 14=-1349(LC 12), 2=-1482(LC 12)
 Max Grav 14=2818(LC 18), 2=2950(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-6291/3201, 3-5=-6030/3152, 5-6=-4975/2759, 6-7=-3779/2255, 7-8=-3780/2257, 8-9=-5043/2791, 9-11=-6498/3460, 11-12=-6448/3285, 12-13=-5921/2989, 13-14=-2217/1144
BOT CHORD	2-22=-2933/5982, 21-22=-2498/5207, 19-21=-2046/4343, 18-19=-2022/4209, 16-18=-2525/5048, 15-16=-3241/6381, 14-15=-329/632
WEBS	3-22=-453/390, 5-22=-354/831, 5-21=-903/577, 13-15=-2864/5694, 7-19=-1300/2416, 6-19=-1442/872, 6-21=-473/1157, 8-19=-1517/911, 8-18=-502/1227, 9-18=-1006/631, 9-16=-650/1297, 11-16=-528/424, 12-16=-499/296, 12-15=-2718/1488

NOTES- (9)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-10-14, Interior(1) 3-10-14 to 24-4-0, Exterior(2R) 24-4-0 to 29-2-14, Interior(1) 29-2-14 to 48-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1349, 2=1482.
- 9) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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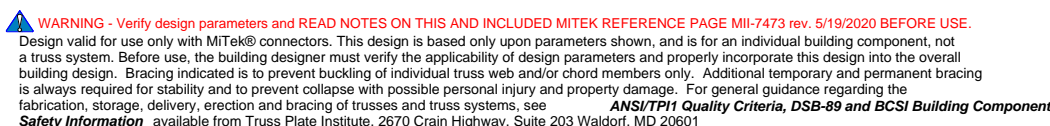
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	T14	Roof Special Girder	2	3	T29127076

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:48 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-LS27em0cg8dUecBU8pdcTs3oBCKzRQdgdP1IINyNBqv

- NOTES-** (11)
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3567 lb down and 1761 lb up at 46-10-8, and 113 lb down and 22 lb up at 47-6-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-7=-90, 7-12=-90, 12-14=-90, 2-15=-20
- Concentrated Loads (lb)
- Vert: 16=-3567(B) 30=-113(B)

Job	Truss	Truss Type	Qty	Ply	
HR0009	T15	Common	4	1	T29127077

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ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-HqAt3S1sCmuCuwLiFEg4YH8_w0?svHUy4iWOMGyNBqt

-1-0-0	6-6-14	12-5-14	18-4-15	24-4-0	30-3-1	36-2-1	39-1-0	42-1-2	46-9-0
1-0-0	6-6-14	5-11-1	5-11-1	5-11-1	5-11-1	5-11-0	2-10-15	3-0-2	4-7-14

Scale = 1:81.0

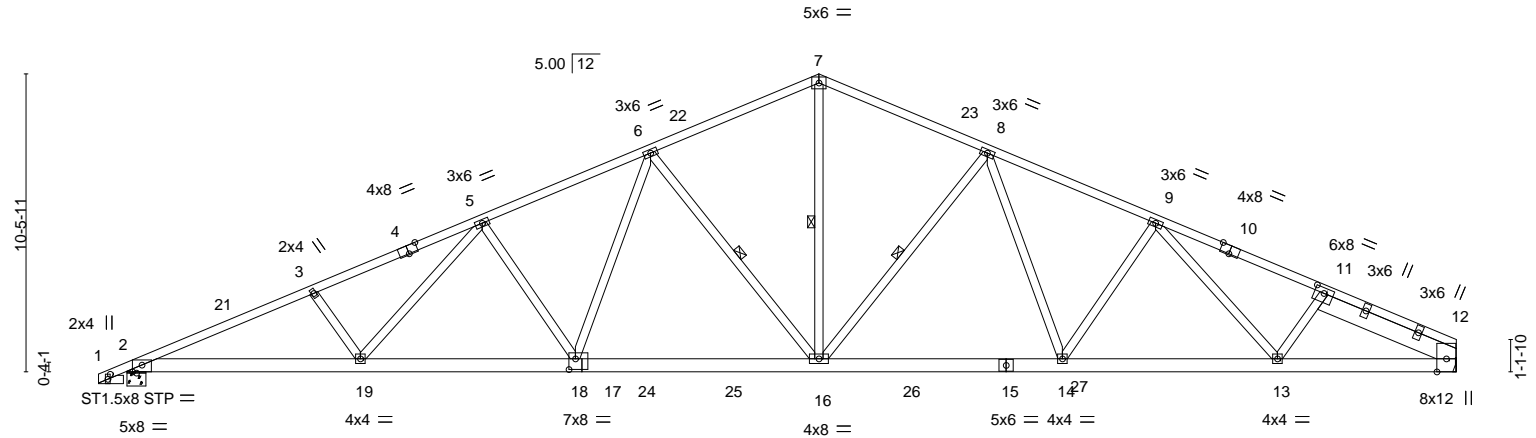


Plate Offsets (X,Y)--	[1:0-2-2,0-1-0], [2:0-4-0,Edge], [4:0-4-0,Edge], [10:0-4-0,Edge], [11:0-4-0,0-2-4], [17:0-2-12,0-4-8]
-----------------------	---

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.33	TC 0.97	Vert(LL) 0.42	16-18	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL 1.33	BC 0.77	Vert(CT) -0.70	16-18	>792	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.18	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH					Weight: 313 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 5-1-0 oc bracing.
2-17: 2x6 SP M 26	WEBS 1 Row at midpt 7-16, 6-16, 8-16
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
SLIDER Right 2x8 SP 2400F 2.0E 5-2-1	

REACTIONS.	(size)	2=0-8-0, 12=Mechanical
Max Horz	2=440(LC 11)	
Max Uplift	2=1425(LC 12), 12=1291(LC 12)	
Max Grav	2=2833(LC 17), 12=2704(LC 18)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-5996/3036, 3-5=-5735/2987, 5-6=-4676/2597, 6-7=-3475/2093, 7-8=-3475/2103, 8-9=-4421/2490, 9-11=-4776/2583, 11-12=-4916/2573
BOT CHORD	2-19=-2693/5723, 18-19=-2255/4949, 16-18=-1804/4090, 14-16=-1707/3746, 13-14=-2038/4237, 12-13=-2122/4205
WEBS	3-19=-456/391, 5-19=-355/827, 5-18=-895/574, 8-14=-338/858, 7-16=-1182/2183, 6-16=-1442/869, 6-18=-473/1156, 8-16=-1211/754, 9-14=-569/433, 11-13=0/283

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-8-2, Interior(1) 3-8-2 to 24-4-0, Exterior(2R) 24-4-0 to 29-0-2, Interior(1) 29-0-2 to 46-9-0 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.
 - 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=1425, 12=1291.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Chesterfield, MO 63017
Date:

November 3,2022

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

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	T16	Common Girder	2	2	T29127078

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8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:51 2022 Page 1

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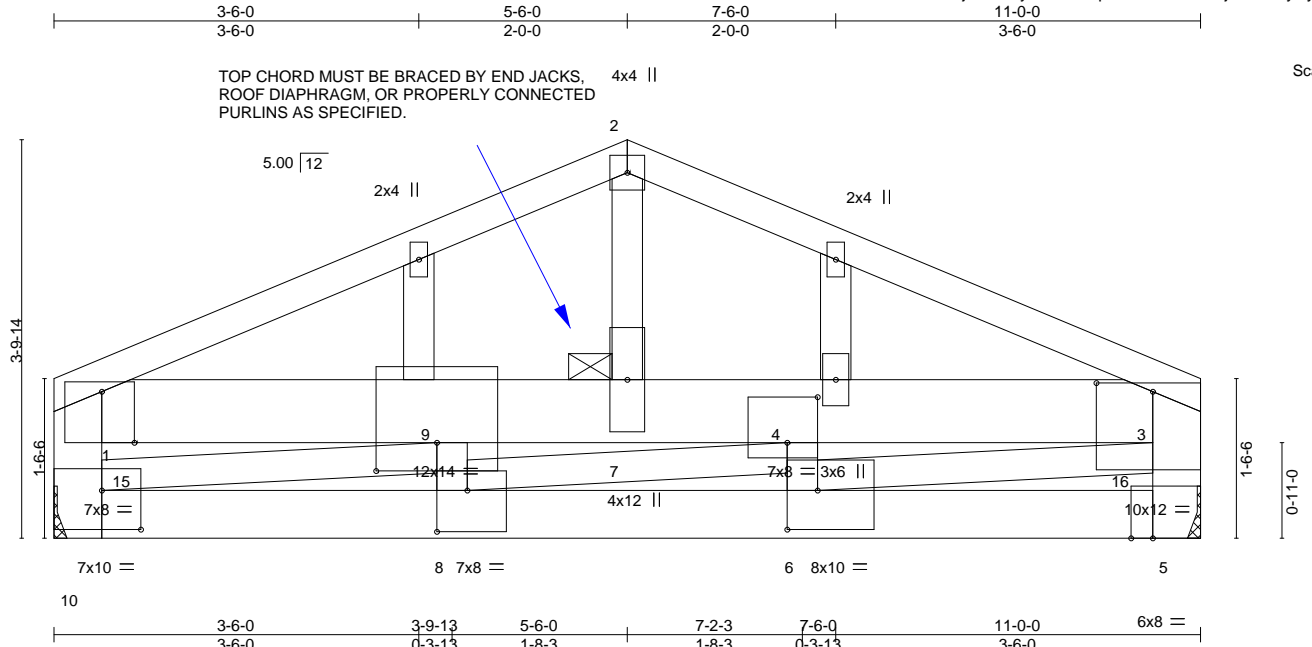


Plate Offsets (X,Y)-- [1:0-3-12,Edge], [3:0-6-8,0-1-0], [4:0-3-8,0-5-4], [5:0-2-8,0-0-0], [6:0-3-8,0-4-8], [8:0-3-8,0-4-12], [9:0-7-0,0-3-4], [10:0-4-8,0-4-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.33	TC 0.76	Vert(LL)	0.07	6-8	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL	1.33	BC 0.37	Vert(CT)	-0.11	6-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.86	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH						Weight: 203 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP M 26 *Except*
 1-3: 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 1-10,3-5: 2x6 SP No.2

REACTIONS.

(size) 10=Mechanical, 5=Mechanical
 Max Horz 10=74(LC 7)
 Max Uplift 10=-3945(LC 8), 5=-3946(LC 8)
 Max Grav 10=7958(LC 1), 5=7960(LC 1)

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

TOP CHORD 1-2=-6837/3374, 2-3=-6836/3374, 1-10=-4308/2144, 3-5=-5540/2749
 BOT CHORD 8-10=-3236/6539, 6-8=-3189/6443, 5-6=-974/1930, 1-9=-1980/4153, 7-9=-362/214,
 4-7=-362/214
 WEBS 2-7=-2299/4790, 8-9=-2306/4694, 4-6=-1565/3185, 3-6=-2343/4775, 9-10=-4545/2232

NOTES- (12)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc, 2x8 - 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide metal plate or equivalent at bearing(s) 10, 5 to support reaction shown.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=3945, 5=3946.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 7

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.

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 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 Date:

November 3,2022

Continued on page 2

LOAD CASE(S) Standard

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

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127078
HR0009	T16	Common Girder	2	2	Job Reference (optional)

Builders FirstSource (Tampa, FL),
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8.530 s Aug 11 2022 MiTek Industries, Inc.
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Page 2
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LOAD CASE(S) Standard

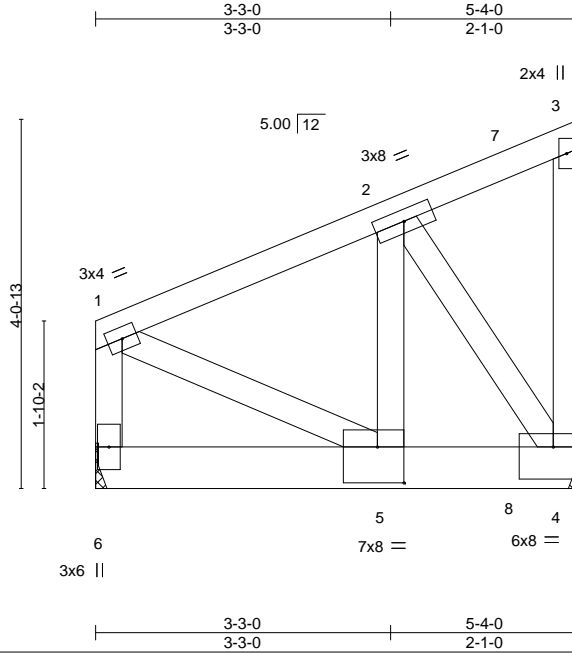
- 1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-2=-90, 2-3=-90, 5-10=-1353(B=-1333), 1-15=-20, 15-16=-52(F=-32), 3-16=-20
- Concentrated Loads (lb)
- Vert: 15=-94(F) 16=-94(F)

Job	Truss	Truss Type	Qty	Ply	
HR0009	T17	Jack-Open Girder	2	2	T29127079

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:52 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-EDHeU837jN8v7DVFNeiYeiDX4pkKNFLFX0?VR9yNBqr



Scale = 1:25.4

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.33	TC 0.16	Vert(LL)	0.03	5-6	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL	1.33	BC 0.57	Vert(CT)	-0.04	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.56	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						Weight: 81 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 5-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 4=Mechanical
Max Horz 6=147(LC 8)
Max Uplift 6=1741(LC 8), 4=1978(LC 8)
Max Grav 6=3587(LC 1), 4=3757(LC 1)

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

TOP CHORD 1-6=-1848/881, 1-2=-2098/984
BOT CHORD 4-5=-1011/1902
WEBS 1-5=-962/2118, 2-5=-1572/3111, 2-4=-3354/1783

NOTES- (11)

- 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 0-4-0 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1741, 4=1978.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 144 lb down and 73 lb up at 3-3-0, and 119 lb down and 60 lb up at 4-8-1 on top chord, and 57 lb down and 29 lb up at 3-3-0, and 36 lb down and 18 lb up at 4-8-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	T17	Jack-Open Girder	2	2	T29127079

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:52 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-EDHeU837jN8v7DVFNeiYeiDX4pkKNFLFX0?VR9yNBqr

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-90, 4-6=-1296(B=-1276)

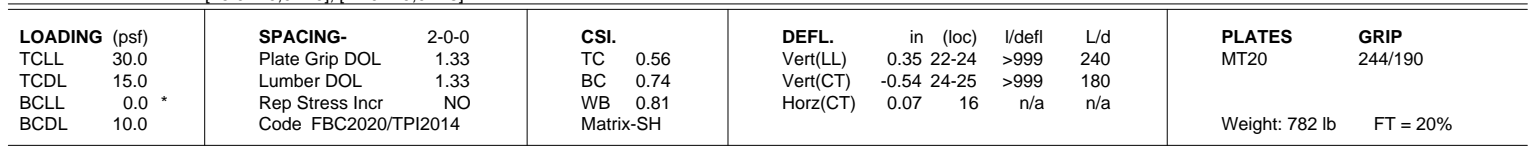
Concentrated Loads (lb)

Vert: 5=-57(F) 2=-144(F) 7=-119(F) 8=-36(F)

Builders FirstSource, Tampa, Plant City, Florida 33566
 8.530 s May 26 2022 MiTek Industries, Inc. Thu Nov 3 10:15:01 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnRR9V-KD9egQOmeKZcOkESeSE6KyHVAoIG2df2__B8gMiyN5i8

5x6 = Scale = 1:107.0



REACTIONS. (size) 2=0-8-0, 16=0-8-0
 Max Horz 2=-382(LC 6)
 Max Uplift 2=-1639(LC 8), 16=-3495(LC 8)
 Max Grav 2=3252(LC 29), 16=6456(LC 1)

NOTES- (11)

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-3-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=51ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load covers rain loading requirements specific to the use of this truss component.

Continued on page 3

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017

November 3, 2022

Job	Truss	Truss Type	Qty	Ply	
HR0009	T18	ROOF SPECIAL GIRDER	2	2	T29127080

Builders FirstSource, Tampa, Plant City, Florida 33566

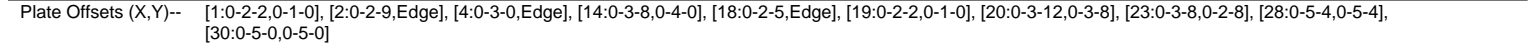
8.530 s May 26 2022 MiTek Industries, Inc.
Thu Nov 3 10:15:02 2022
Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-oQj1tmPOPdhT0UDe0yeZVV2LYicHM6H8CrtEu9yN5t7

- NOTES-** (11)
- 6) Provide adequate drainage to prevent water ponding.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1639 lb uplift at joint 2 and 3495 lb uplift at joint 16.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3737 lb down and 1998 lb up at 46-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-90, 7-11=-90, 11-13=-90, 13-14=-90, 15-32=-30, 16-32=-90, 16-17=-90, 2-19=-20, 16-18=-20
Concentrated Loads (lb)
Vert: 20=-3737(F)

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:57 2022 Page 1
ID:bzeMQ6aYnVsPaR?PBKUKnzRR9V-aB5XXr7FYvmCD?ND9CijLmxCNqLX1QL_hljG6MyNBqm
48-8-0 50-8-0
-1-0-0 6-6-14 12-5-14 18-4-15 24-4-0 30-3-1 31-0-5 36-2-1 37-8-10 42-4-5 46-0-0 47-0-0 49-8-0 51-8-0
1-0-0 6-6-14 5-11-1 5-11-1 5-11-1 5-11-1 0-9-4 5-1-12 1-6-9 4-7-11 3-7-11 1-0-0 1-0-0 1-0-0
1-8-0 1-0-0
Scale = 1:101.9



LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* 10-16,14-19: 2x4 SP No.2, 1-4: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 1-9-4 oc purlins, except end verticals. Except: 2-2-0 oc bracing: 15-17
BOT CHORD	2x6 SP No.2 *Except* 2-30,21-26: 2x6 SP M 26, 21-32,18-20: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3 *Except* 17-22,20-23: 2x4 SP No.2	WEBS	1 Row at midpt 7-28, 6-28, 8-28, 11-14
OTHERS	2x4 SP No.3		

REACTIONS. (size) 2=0-8-0, 18=0-8-0
 Max Horz 2=495(LC 11)
 Max Uplift 2=-1527(LC 12), 18=-1623(LC 12)
 Max Grav 2=3063(LC 17), 18=3018(LC 18)

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

TOP CHORD 2-3=-6548/3312, 3-5=-6303/3272, 5-6=-5301/2914, 6-7=-4029/2396, 7-8=-4027/2420,
8-9=-5583/3145, 9-10=-6386/3592, 10-11=-5921/3327, 13-15=-108/316,
14-15=-4843/3152, 15-17=-4893/3248, 17-18=-5471/3476

BOT CHORD 2-31=-3179/6206, 30-31=-2804/5531, 28-30=-2342/4648, 27-28=-2401/4626,
25-27=-3094/5775, 24-25=-2342/4297, 23-24=-2094/3523, 22-23=-168/259,
18-20=-2984/4810

WEBS 3-31=-380/339, 5-31=-305/746, 5-30=-916/584, 10-25=-2421/1390, 17-20=-190/592,
20-23=-2156/3645, 14-20=-830/1200, 11-24=-509/305, 11-25=-1217/2352,
7-28=-1409/2583, 6-28=-1456/880, 6-30=-477/1163, 8-28=-1715/1035, 8-27=-722/1536,
9-27=-1327/837, 9-25=-473/856, 14-23=-1348/875, 14-24=-467/1035, 11-14=-4430/2660

This item has been electronically signed and

NOTES- (11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCCL=4.2psf; BCCL=3.0psf; h=25ft; B=45ft; L=51ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 4-0-13, Interior(1) 4-0-13 to 24-4-0, Exterior(2R) 24-4-0 to 29-4-13, Interior(1) 29-4-13 to 51-8-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022

Continued on page 2

 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 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/TPP Quality Criteria, DSB-89 and BCSI Building Component**

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127081
HR0009	T19	Roof Special	2	1	Job Reference (optional)

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:57 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-aB5XXr7FYvmCD?ND9CijLmxCNqLX1QL_hljG6MyNBqm

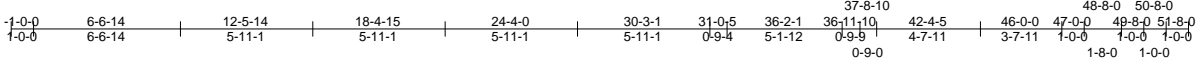
- NOTES-** (11)
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1527, 18=1623.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."



Job	Truss	Truss Type	Qty	Ply	
HR0009	T20	Roof Special	2	1	T29127082

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:58 2022 Page 1
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-2NfvkB7lJDu3r8yPjvpytZTN7Eh1mrP8wySpeoyNBql



Scale = 1:103.1

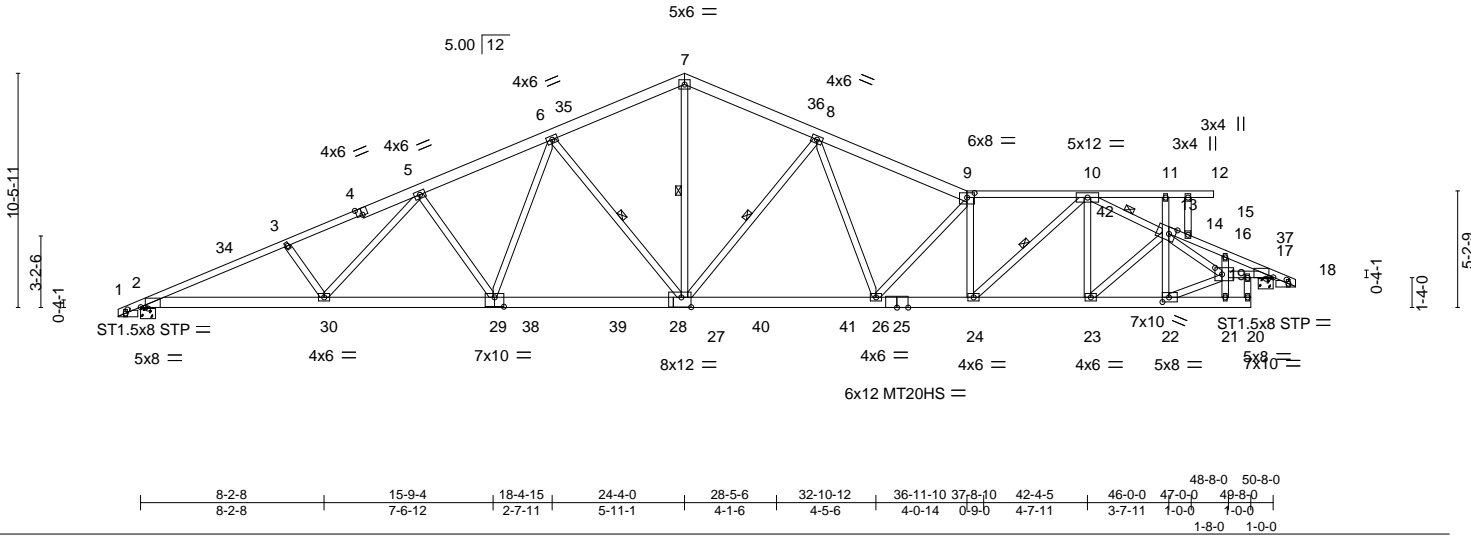


Plate Offsets (X,Y)-- [1:0-2-2,0-1-0], [2:0-2-9,Edge], [4:0-3-0,Edge], [9:0-4-0,0-2-8], [13:0-3-8,Edge], [17:0-2-5,Edge], [18:0-2-2,0-1-0], [19:0-3-12,0-3-8], [22:0-3-8,0-2-8], [27:0-5-4,0-5-4], [29:0-5-0,0-5-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.95	Vert(LL)	0.50 26-27	>999	240	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.94	Vert(CT)	-0.83 26-27	>723	180	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.33	WB 0.97	Horz(CT)	0.15 17	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH						
	Code FBC2020/TPI2014						Weight: 385 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
13-18: 2x4 SP No.2, 1-4,9-15: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
2-29,20-25: 2x6 SP M 26, 20-31,17-19: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
16-21,19-22: 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-14 oc purlins, except end verticals. Except:
2-2-0 oc bracing: 14-16
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 10-24, 7-27, 6-27, 8-27, 10-13

REACTIONS.

(size) 2=0-8-0, 17=0-8-0
Max Horz 2=508(LC 11)
Max Uplift 2=-1527(LC 12), 17=-1623(LC 12)
Max Grav 2=3067(LC 17), 17=3010(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6557/3312, 3-5=-6313/3272, 5-6=-5311/2909, 6-7=-4028/2396, 7-8=-4031/2417, 8-9=-5523/3075, 12-14=-112/320, 13-14=-4846/3140, 14-16=-4891/3251, 16-17=-5471/3481, 9-10=-5782/3244
BOT CHORD 2-30=-3205/6214, 29-30=-2830/5538, 27-29=-2368/4656, 26-27=-2431/4639, 24-26=-3156/5873, 23-24=-2190/4031, 22-23=-2100/3523, 21-22=-168/259, 17-19=-2988/4809
WEBS 3-30=-380/340, 5-30=-306/746, 5-29=-916/583, 16-19=-190/598, 19-22=-2161/3642, 13-19=-830/1201, 10-23=-283/185, 10-24=-1276/2441, 7-27=-1420/2601, 6-27=-1457/882, 6-29=-476/1161, 8-27=-1730/1049, 8-26=-616/1388, 9-26=-1318/803, 9-24=-1600/922, 13-22=-1365/881, 13-23=-266/684, 10-13=-4307/2575

NOTES-

- (11) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=51ft; eave=6ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 4-0-13, Interior(1) 4-0-13 to 24-4-0, Exterior(2R) 24-4-0 to 29-4-13, Interior(1) 29-4-13 to 51-8-0 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.
- All plates are MT20 plates unless otherwise indicated.
- 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.

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127082
HR0009	T20	Roof Special	2	1	Job Reference (optional)

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:27:59 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-WZCHyX8W4X0wTIXbHcKBQB0Xse1GVIfH9cCNBFyNBqk

- NOTES-** (11)
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1527, 17=1623.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:01 2022 Page 1
 ID:bzeMQ6aYnVsaPAR?PBKUKnzRR9V-TyK1MDAmc8Geich_O1MfVc5s3RiazDwacwhUF7yNBqi
 37-8-10

 1-0-0 6-6-14 12-5-14 18-4-15 24-4-0 30-3-1 31-0-5 34-6-12 36-2-1 42-4-5 46-0-0 47-0-0 48-8-0 50-8-0
 1-0-0 6-6-14 5-11-1 5-11-1 5-11-1 5-11-1 0-9-4 3-6-7 0-4-13 0-9-9 4-7-11 3-7-11 1-0-0 1-0-0 1-0-0
 Scale = 1:103.1

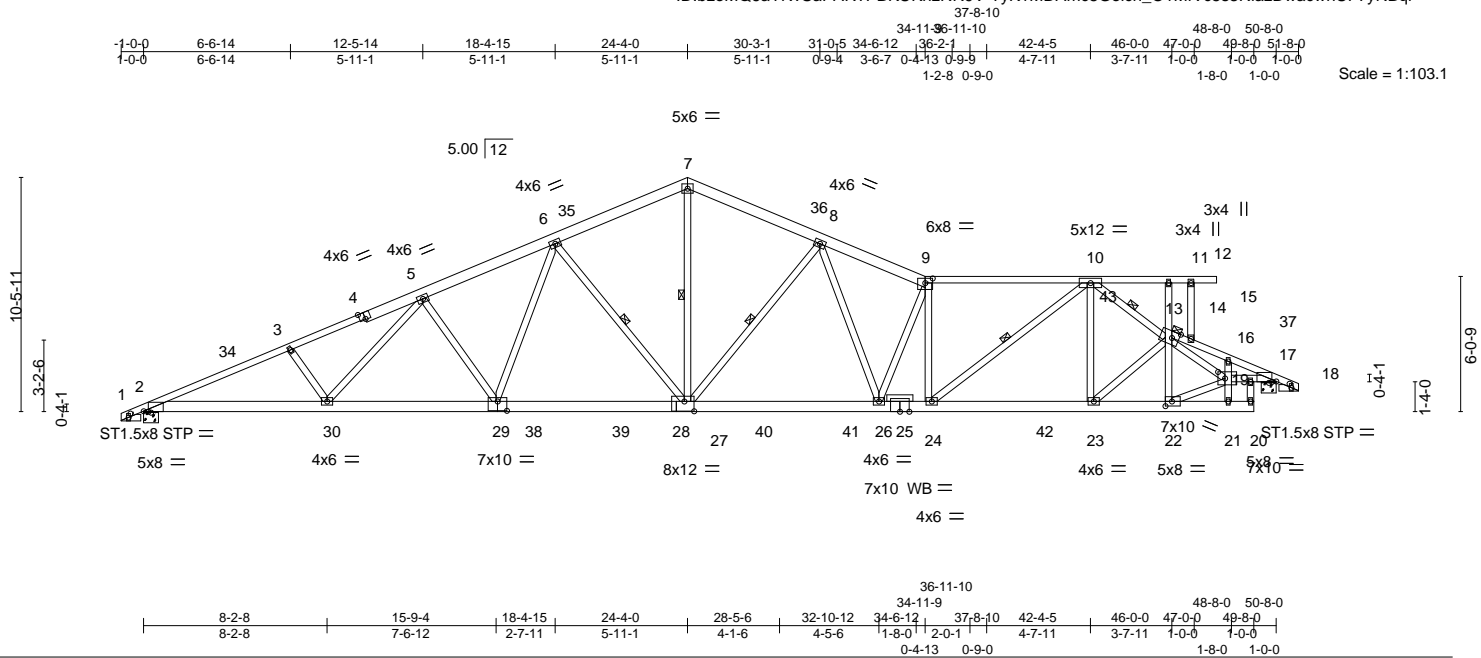


Plate Offsets (X,Y)-- [1:0-2-2,0-1-0], [2:0-2-9,Edge], [4:0-3-0,Edge], [9:0-4-0,0-2-8], [13:0-3-12,Edge], [17:0-2-5,Edge], [18:0-2-2,0-1-0], [19:0-3-12,0-3-8], [22:0-3-8,0-2-8], [27:0-5-4,0-5-4], [29:0-5-0,0-5-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.33	TC 0.97	Vert(LL) 0.48 26-27 >999 240	MT20	244/190
TCDL 15.0	Lumber DOL 1.33	BC 0.95	Vert(CT) -0.82 26-27 >736 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.15 17 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH		Weight: 393 lb	FT = 20%

TOP CHORD	2x6 SP No.2 *Except* 13-18: 2x4 SP No.2, 1-4: 2x4 SP No.1, 9-15: 2x4 SP M 31
BOT CHORD	2x6 SP No.2 *Except* 2-29,20-25: 2x6 SP M 26, 20-31,17-19: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 16-21,19-22: 2x4 SP No.2
OTHERS	2x4 SP No.3

TOP CHORD	Structural wood sheathing directly applied or 1-10-13 oc purlins, except end verticals. Except: 2-2-0 oc bracing: 14-16
BOT CHORD	Rigid ceiling directly applied or 4-3-11 oc bracing.
WEBS	1 Row at midpt 7-27, 6-27, 8-27, 10-24, 10-13
JOINTS	1 Brace at Jt(s): 13

(size) 2=0-8-0, 17=0-8-0
Max Horz 2=543(LC 11)
Max Uplift 2=-1525(LC 12), 17=-1624(LC 12)
Max Grav 2=3085(LC 17), 17=3028(LC 19)

TOP CHORD 2-3=-6601/3312, 3-5=-6357/3272, 5-6=-5356/2909, 6-7=-4040/2397, 7-8=-4050/2386,
8-9=-5536/3073, 12-14=-170/363, 13-14=-4880/3120, 14-16=-4955/3279,
16-17=-5536/3504, 9-10=-5426/3002

BOT CHORD 2-30=-3273/6249, 29-30=-2897/5575, 27-29=-2435/4693, 26-27=-2467/4658,
24-26=-2938/5525, 23-24=-1890/3534, 22-23=-2101/3539, 21-22=-170/263,
17-19=-3011/4869

WEBS 3-30=-380/339, 5-30=-306/745, 5-29=-916/584, 16-19=-169/594, 19-22=-2159/3655,
13-19=-858/1247, 10-23=-170/364, 7-27=-1385/2598, 6-27=-1453/878, 6-29=-476/1161,
8-27=-1698/1022, 8-26=-680/1504, 9-26=-1220/712, 10-24=-1302/2480, 13-22=-1428/890,
13-23=-123/282, 10-13=-4184/2461, 9-24=-1456/853

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDF=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=51ft; eave=6ft; Cat. II; Exp C; Encl.; GCp=-0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 4-0-13, Interior(1) 4-0-13 to 24-4-0, Exterior(2R) 24-4-0 to 29-4-13, Interior(1) 29-4-13 to 51-8-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb)

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

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022



WARNING – verify design parameters and loadings on this and included with the relevant AISC MHP-433 (Rev. 1/19/2020) before use. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Components**. **Safety Information** available from Truss Plate Institute, 2670 Cran Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T29127083
HR0009	T21	Roof Special	2	1	Job Reference (optional)

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:01 2022 Page 2
ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-TyK1MDAmc8Geich_O1MfVc5s3RiazDwacwhUF7yNBqi

- NOTES-** (10)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:03 2022 Page 1

ID:bzeMQ6aYnVaSaPR?PBKUKnzRR9V-PKSONvB08IWlyqMWSP7a0BD9FOCR7Q13EAAk0yNBqg

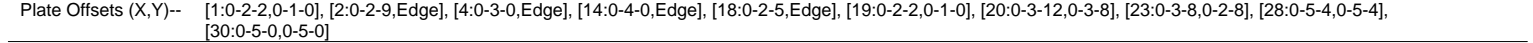
32-11-9 36-2-1 37-8-10 49-8-0 51-8-0

1-0-0 6-6-14 12-5-14 18-4-15 24-4-0 30-3-1 31-0-5 34-6-12 36-11-10 42-4-5 47-0-0 48-8-0 50-8-0

1-0-0 6-6-14 5-11-1 5-11-1 5-11-1 5-11-1 0-9-4 1-7-3 1-7-5 0-9-0 4-7-11 4-7-11 1-8-0 1-0-0

1-11-4 0-9-9 1-0-0 1-0-0

Scale = 1:104.0



LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* 14-19,9-16: 2x4 SP No.2, 1-4: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. Except: 2-2-0 oc bracing: 15-17
BOT CHORD	2x6 SP No.2 *Except* 2-30,21-26: 2x6 SP M 26, 21-32,18-20: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-15 oc bracing.
WEBS	2x4 SP No.3 *Except* 17-22,20-23: 2x4 SP No.2	WEBS	1 Row at midpt 11-24, 7-28, 6-28, 8-28, 10-24, 11-14, 9-27
OTHERS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 14

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

TOP CHORD	2-3=6619/3312, 3-5=6375/3272, 5-6=5374/2909, 6-7=4040/2397, 7-8=4074/2364, 8-9=5459/3075, 13-15=135/347, 14-15=4812/3116, 15-17=4905/3295, 17-18=5483/3524, 9-10=5021/2822, 10-11=2998/1756
BOT CHORD	2-31=3337/6261, 30-31=2960/5587, 28-30=2498/4705, 27-28=2514/4666, 25-27=2296/4275, 24-25=2296/4275, 23-24=2114/3513, 22-23=170/260, 18-20=3027/4821
WEBS	3-31=380/339, 5-31=306/745, 5-30=916/584, 17-20=177/603, 20-23=2173/3630, 14-20=860/1220, 11-24=1312/2308, 7-28=1393/2626, 6-28=1452/878, 6-30=475/1157, 8-28=1670/1028, 8-27=682/1453, 10-27=748/1471, 10-24=2118/1133, 14-23=1366/891, 14-24=776/658, 11-14=3940/2348, 9-27=2239/1296

This item has been electronically signed and

NOTES- (10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCCL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=51ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 4-0-13, Interior(1) 4-0-13 to 24-4-0, Exterior(2R) 24-4-0 to 29-4-13, Interior(1) 29-4-13 to 51-8-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

sealed by Velez, Joaquin, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
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Date:

November 3, 2022

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November 3, 2022

Job	Truss	Truss Type	Qty	Ply	T29127084
HR0009	T22	Roof Special	2	1	Job Reference (optional)

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:03 2022 Page 2
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- NOTES-** (10)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

Job	Truss	Truss Type	Qty	Ply	
HR0009	V01	Valley	2	1	T29127085

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

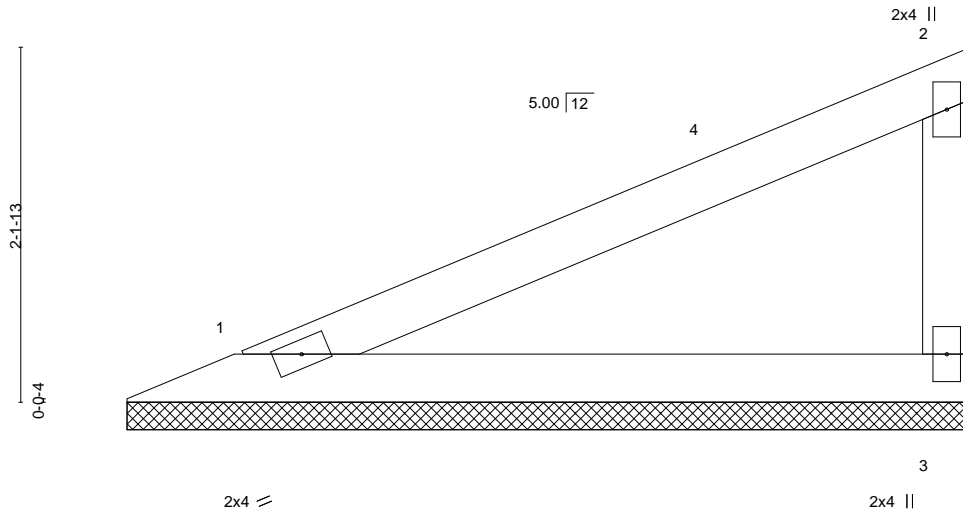
8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:03 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-PKSonvB08IWlyqMWSP7a0BGOFX2RLt3EAaK0yNBqg

5-1-15

5-1-15

Scale = 1:14.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.73	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.37	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 17 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-1-6, 3=5-1-6
Max Horz 1=125(LC 12)
Max Uplift 1=-92(LC 12), 3=-145(LC 12)
Max Grav 1=234(LC 1), 3=234(LC 1)

FORCES.

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

TOP CHORD 2-3=-221/370

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-0-3 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=145.
- 7) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3,2022

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

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

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	V02	Valley	2	1	T29127086

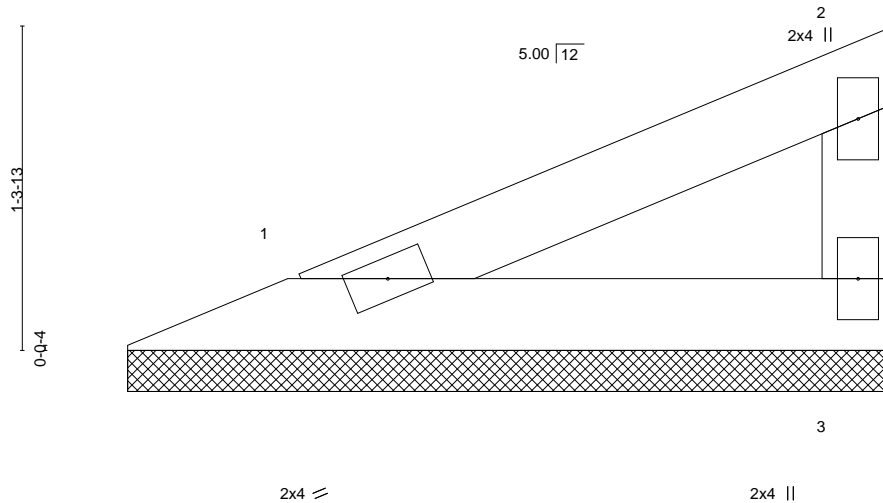
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:04 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-tX0A?ECev3eCZ3PZ4AwM7EjaefxdAo?0Iuv8sSyNBqf

3-1-15
3-1-15

Scale = 1:9.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 10 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-1-6, 3=3-1-6
Max Horz 1=67(LC 12)
Max Uplift 1=49(LC 12), 3=77(LC 12)
Max Grav 1=124(LC 1), 3=124(LC 1)

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

NOTES- (7)

- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) 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
- 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) 1, 3.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Date:

November 3,2022

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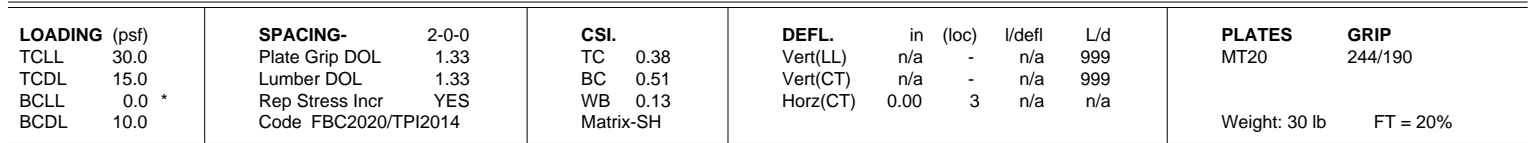
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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Builders FirstSource (Tampa, FL), Tampa, FL - 33564, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:06 2022 Page 1
 ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-pv7wQwEvQgwpNZxByyCfpt7SXdegPjmCOFWLyNBqd
 4-10-6 9-8-13
 4-10-6 4-10-6



REACTIONS. (size) 1=9-7-10, 3=9-7-10, 4=9-7-10
 Max Horz 1=58(LC 10)
 Max Uplift 1=111(LC 12), 3=111(LC 12), 4=237(LC 12)
 Max Grav 1=204(LC 21), 3=204(LC 22), 4=509(LC 1)

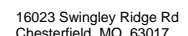
NOTES- (8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCdL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-10-6, Exterior(2R) 4-10-6 to 7-10-6, Interior(1) 7-10-6 to 8-11-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=111, 3=111, 4=237.
- 8) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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



Job	Truss	Truss Type	Qty	Ply	
HR0009	V10	GABLE	2	1	T29127090

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:08 2022 Page 1

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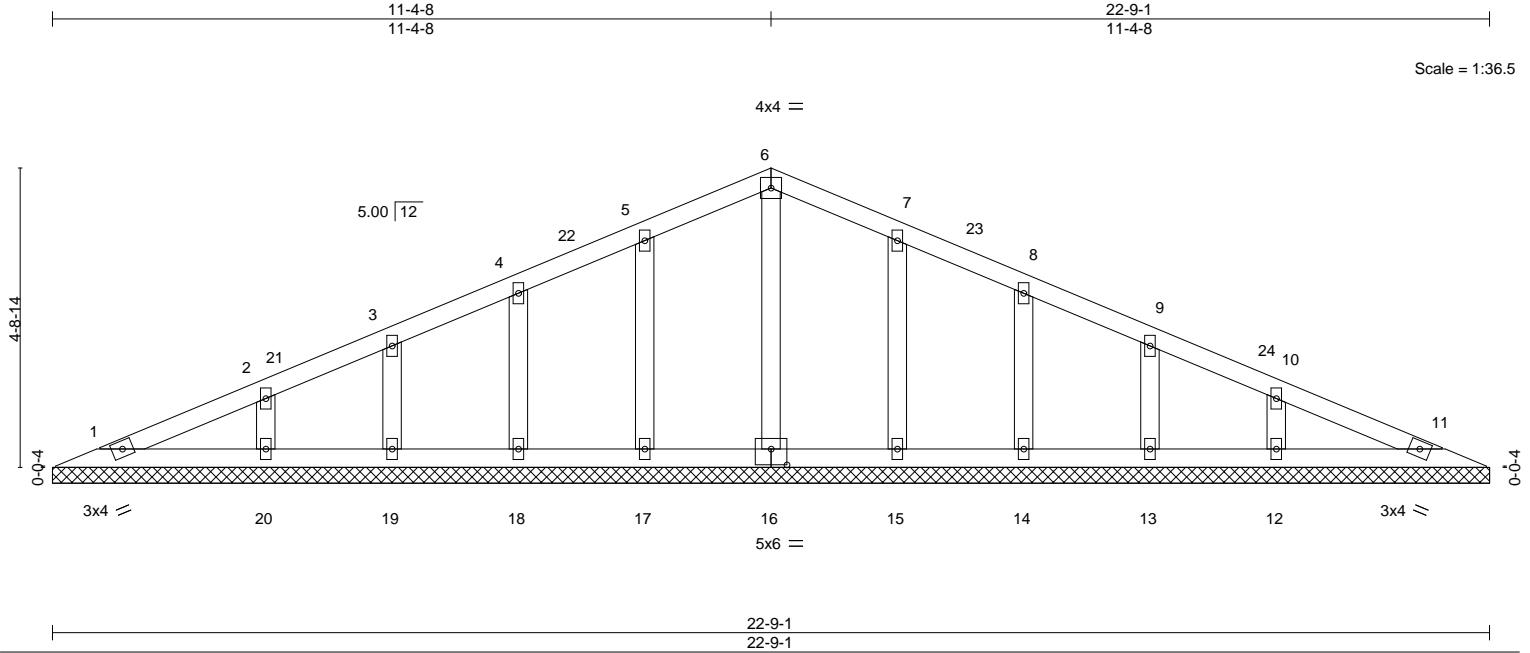


Plate Offsets (X,Y)-- [16:0-3-0,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 15.0	Lumber DOL	1.33	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-SH						Weight: 99 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 22-9-1.
(lb) - Max Horz 1=149(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 17=138(LC 12), 18=140(LC 12), 19=119(LC 12), 20=187(LC 12), 15=138(LC 12), 14=140(LC 12), 13=119(LC 12), 12=187(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 19, 15, 14, 13 except 20=303(LC 1), 12=303(LC 1)

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.

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=120/259, 6-7=120/253

NOTES-

- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 11-4-8, Exterior(2R) 11-4-8 to 14-4-8, Interior(1) 14-4-8 to 22-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 17=138, 18=140, 19=119, 20=187, 15=138, 14=140, 13=119, 12=187.
9) "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

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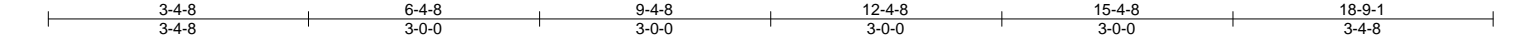
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	V11	Valley	2	1	T29127091

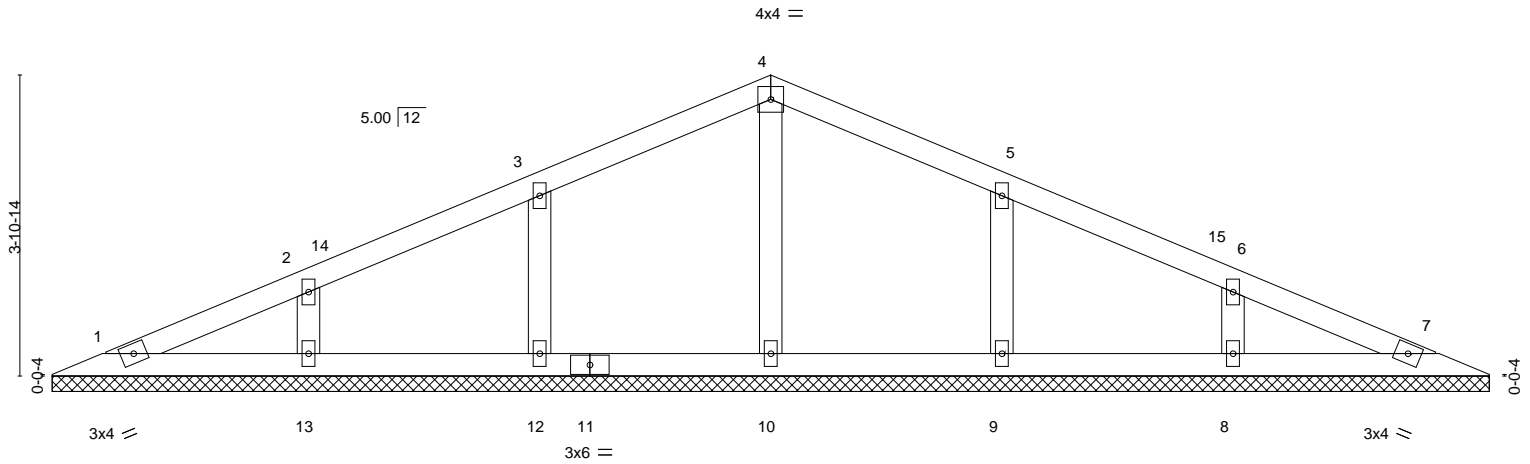
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:10 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-ihNRFIHPuPMH_tjQQ1mMVzcO4_gaVvvgqMS46yNBqZ



Scale = 1:29.9



0-0-10	3-4-8	6-4-8	12-4-8	15-4-8	18-9-1
0-0-10	3-3-15	3-0-0	6-0-0	3-0-0	3-4-8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.17	in (loc)	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.10	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 7 n/a n/a		
	Code FBC2020/TPI2014			Weight: 69 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 18-7-14.
 (lb) - Max Horz 1=121(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10 except 13=211(LC 12), 12=214(LC 12), 9=214(LC 12), 8=211(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=290(LC 1), 13=341(LC 1), 12=349(LC 21), 9=349(LC 22), 8=341(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-13=-267/298, 3-12=-293/341, 5-9=-293/341, 6-8=-267/298

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCCL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 9-4-8, Exterior(2R) 9-4-8 to 12-4-8, Interior(1) 12-4-8 to 18-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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) 1, 7, 10 except (jt=lb) 13=211, 12=214, 9=214, 8=211.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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

Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 Date:

November 3,2022

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

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

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



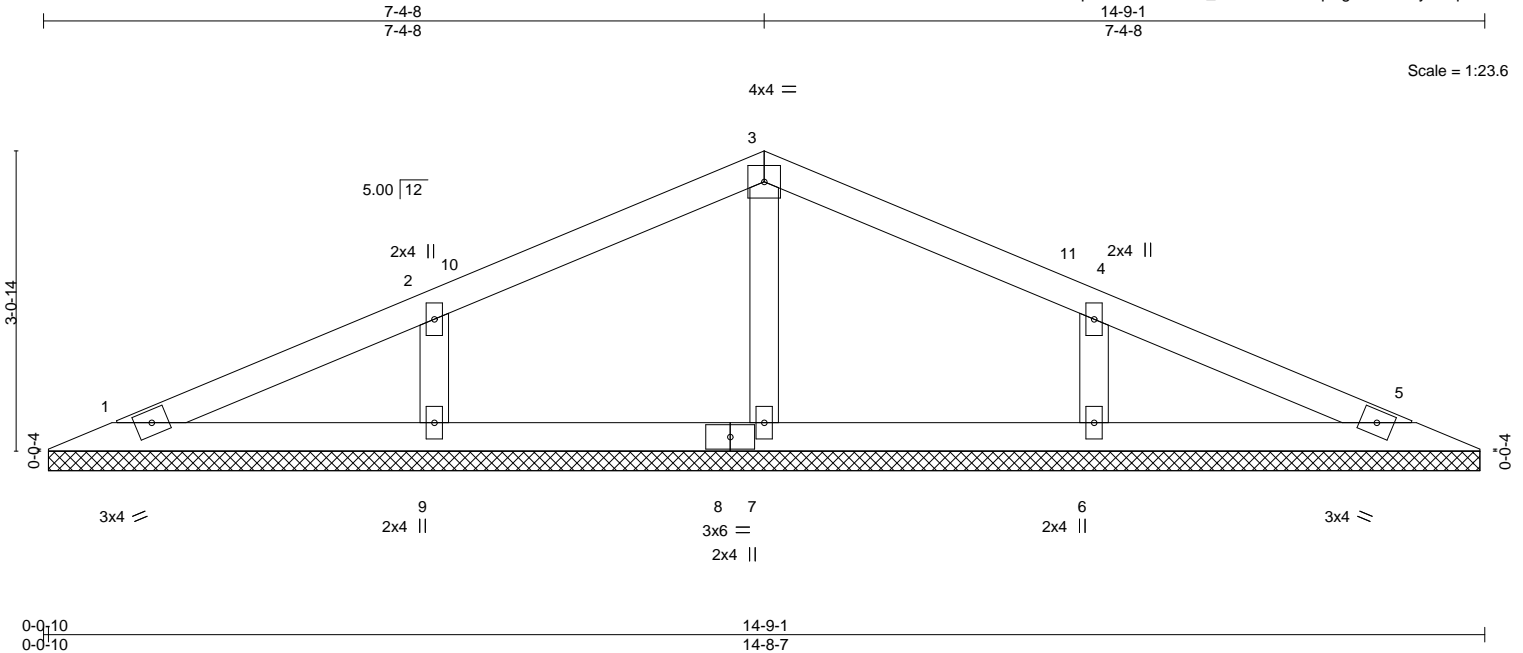
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	V12	Valley	2	1	T29127092

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:11 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-AtxpTel1FCXDv8Sv_8Y?viWm5TJqJxg2vU60cYyNBqY



0-0-10	14-9-1
0-0-10	14-8-7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.23	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.13	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH					Weight: 50 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
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 14-7-14.

(lb) - Max Horz 1=-93(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 6=-269(LC 12), 9=-269(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=307(LC 1), 6=436(LC 22), 9=436(LC 21)

FORCES.

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

WEBS 4-6=-347/444, 2-9=-347/444

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCCL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 4-0-0, Interior(1) 4-0-0 to 7-4-8, Exterior(2R) 7-4-8 to 10-4-8, Interior(1) 10-4-8 to 14-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 1, 5, 7 except (jt=lb) 6=269, 9=269.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017

Date:

November 3,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	V13	Valley	2	1	T29127093

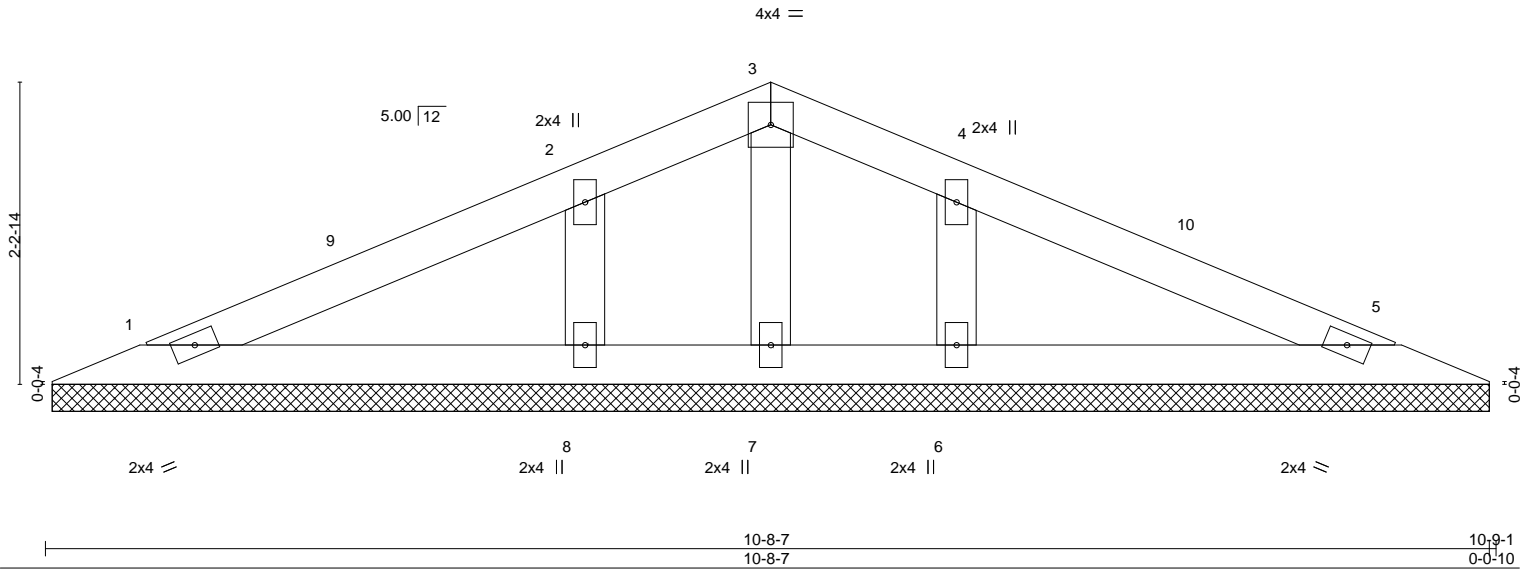
Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:12 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-e3VCg_lf0Wf4XI05Yr3ERw2xMte42OrC87rZ8_yNBqX

5-4-8 5-4-8 10-9-1 5-4-8

Scale = 1:17.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.33	BC 0.25	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.33	WB 0.14	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH					Weight: 37 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 10-7-14.
 (lb) - Max Horz 1=65(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 6=233(LC 12), 8=233(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=383(LC 1), 8=383(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-6=281/461, 2-8=281/461

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCCL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 4-0-0, Interior(1) 4-0-0 to 5-4-8, Exterior(2R) 5-4-8 to 8-4-8, Interior(1) 8-4-8 to 10-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 1, 5, 7 except (jt=lb) 6=233, 8=233.
 - "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 Date:

November 3,2022

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



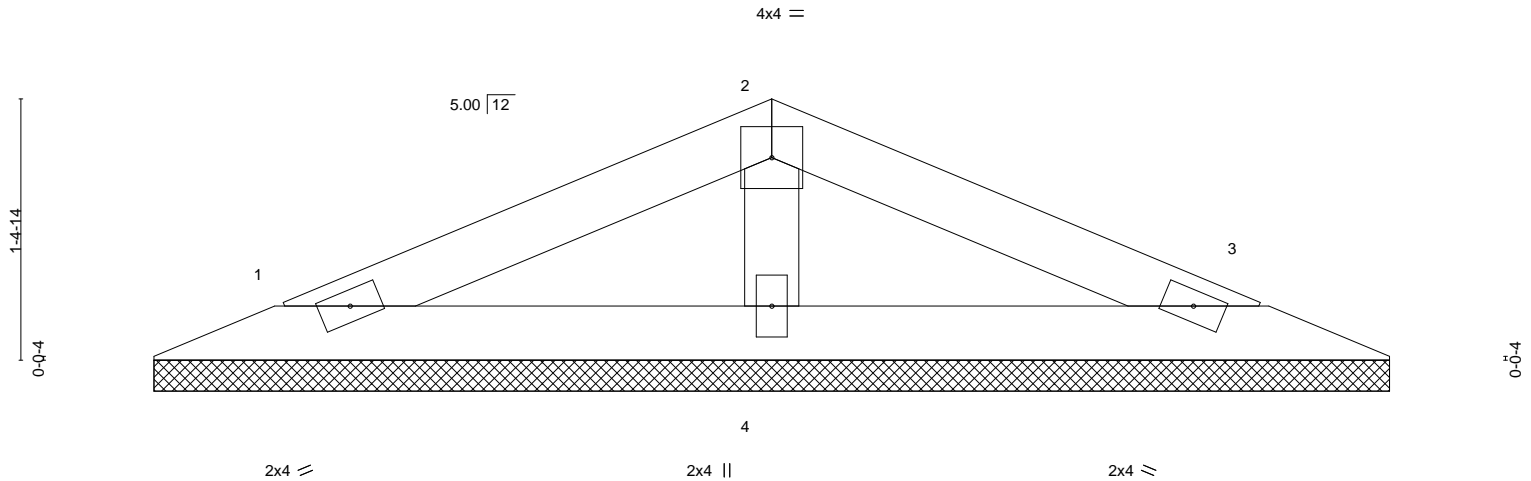
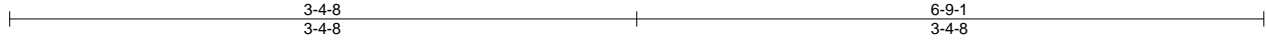
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	V14	Valley	2	1	T29127094

Builders FirstSource (Tampa, FL), Tampa, FL - 33564,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:13 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-6G3auJJInqnx8SbH5ZaT_7b5XH?LnsclNnb6gRyNBqW



0-0-10 0-0-10	6-9-1 6-8-7								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.33	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 15.0	Lumber DOL	1.33	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P					Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
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) 1=6-7-14, 3=6-7-14, 4=6-7-14
Max Horz 1=-37(LC 10)
Max Uplift 1=-87(LC 12), 3=-87(LC 12), 4=-118(LC 12)
Max Grav 1=145(LC 1), 3=145(LC 1), 4=287(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-221/351

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) 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
- 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) 1, 3 except (jt=lb) 4=118.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 3, 2022

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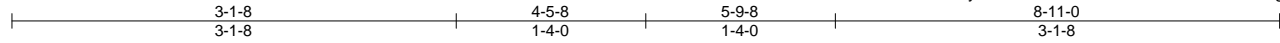
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
HR0009	V15	Valley	2	1	T29127095

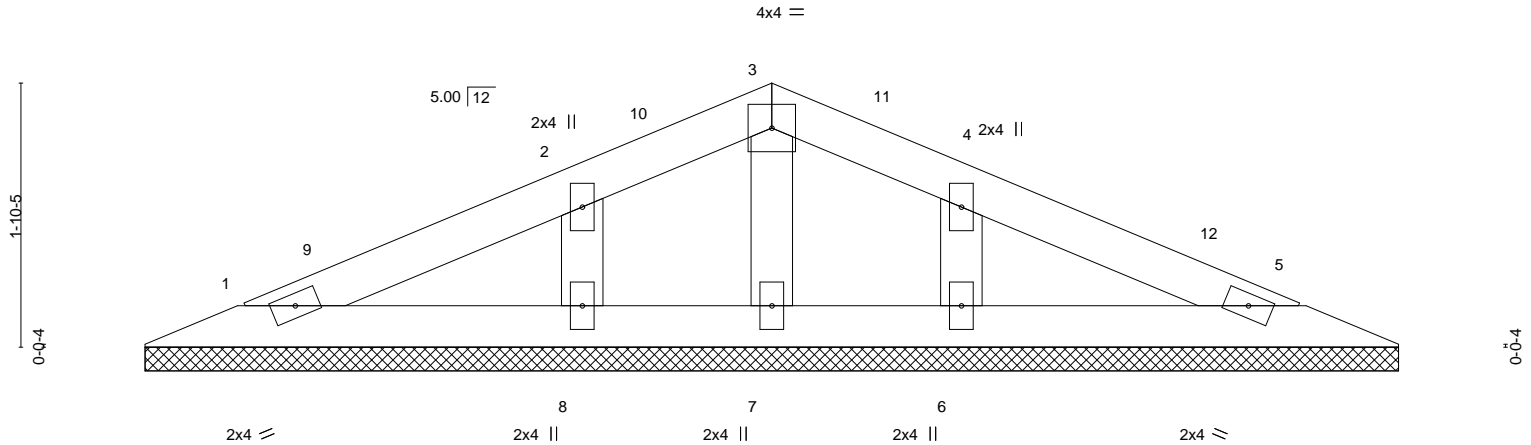
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8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Nov 2 15:28:14 2022 Page 1

ID:bzeMQ6aYNvSaPAR?PBKUKnzRR9V-aScy5fKwY7vomcAUfG5iXL8LzhLzWJhVbRKgDtyNBqV



Scale = 1:16.2



0-0-10		3-1-8		5-9-8		8-11-0	
0-0-10		3-0-14		2-8-0		3-1-8	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 30.0	Plate Grip DOL 1.33	TC 0.13	Vert(LL) n/a - n/a 999	MT20	244/190		
TCDL 15.0	Lumber DOL 1.33	BC 0.09	Vert(CT) n/a - n/a 999				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00 5 n/a n/a				
BCDL 10.0	Code FBC2020/TPI2014	Matrix-SH		Weight: 29 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

- All bearings 8-9-13.
(lb) - Max Horz 1=52(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=168(LC 12), 6=168(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=274(LC 1), 6=274(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-205/385, 4-6=-205/384

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=170mph (3-second gust) Vasd=132mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-5-8, Exterior(2R) 4-5-8 to 7-5-8, Interior(1) 7-5-8 to 8-1-15 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) 1, 5 except (jt=lb) 8=168, 6=168.
- "This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code."

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Date:

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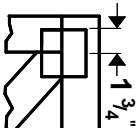
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



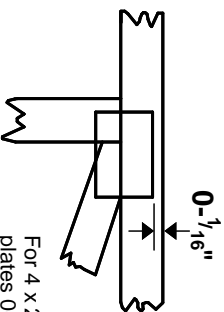
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

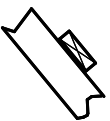
* Plate location details available in **MiTek 20/20** software or upon request.

PLATE SIZE

4 X 4

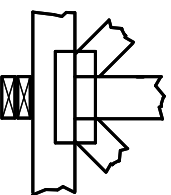
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



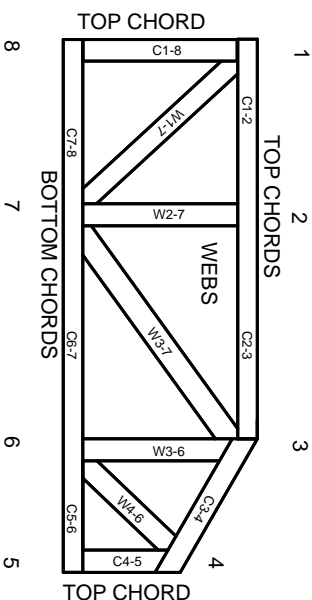
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative 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.