

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

RE: 2433436 - ROBERTS

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: ROBERTS Project Name: Roberts Model: Custom

Lot/Block: N/A

Subdivision: N/A

Address: 161 SE Holly Terrace, N/A

City: Columbia Cty

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 37.0 psf

T20939634

T20939635

T20939636

T20939637

T20939638

Floor Load: N/A psf

This package includes 35 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

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No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T20939618	CJ01	8/5/20	23 24	T20939640	T07	8/5/20
2	T20939619 T20939620	CJ01A CJ02	8/5/20 8/5/20	24	T20939641 T20939642	T07A T08	8/5/20 8/5/20
2 3 4 5 6 7	T20939621	CJ02A	8/5/20	25 26 27	T20939643	T09	8/5/20
5	T20939622	CJ03	8/5/20	27	T20939644	T09A	8/5/20
6	T20939623 T20939624	CJ03A CJ04	8/5/20	28	T20939645	T10	8/5/20
	T20939625	CJ05	8/5/20 8/5/20	30	T20939646 T20939647	T11 T12	8/5/20 8/5/20
8 9 10 11 12 13 14 15 16	T20939626	CJ06	8/5/20	28 29 30 31 32 33 34	T20939648	Ť13	8/5/20
10	T20939627	EJ01	8/5/20	32	T20939649	T14	8/5/20
11	T20939628 T20939629	EJ02 EJ03	8/5/20 8/5/20	33	T20939650 T20939651	T14A T15	8/5/20
13	T20939630	HJ01	8/5/20	35	T20939652	T16	8/5/20 8/5/20
14	T20939631	HJ02	8/5/20	00	12000002		0/0/20
15	T20939632	HJ03	8/5/20				
10	T20939633	T01	8/5/20				



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

8/5/20

8/5/20

8/5/20

Truss Design Engineer's Name: Velez, Joaquin

T02 T03

T04

T05

My license renewal date for the state of Florida is February 28, 2021.

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



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

August 5,2020

Job Truss Truss Type Qty ROBERTS T20939618 2433436 **CJ01** Jack-Open 1 Job Reference (optional) Builders FirstSource Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:33 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-kJ9m_M21KLI2_k2XTr?HELtB13Q_lvjZu3rvfnyqt4i 2-0-0 Scale = 1:9.5 6.00 12 2 1-2-15 3x8 II Plate Offsets (X,Y)-- [5:0-4-1,0-1-8] LOADING (psf) SPACING-CSI 2-0-0 DEFL. (loc) l/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.38 Vert(LL) 0.00 5 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.07 Vert(CT) 0.00 180 5 >999 BCLL 0.0 * Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-MR FT = 20% Weight: 7 lb LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 5=65(LC 12)

Max Uplift 5=-161(LC 12), 3=-84(LC 1), 4=-32(LC 1) Max Grav 5=295(LC 1), 3=46(LC 16), 4=18(LC 16)

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

TOP CHORD 2-5=-245/344

NOTES-(6)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
- 6) 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.



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

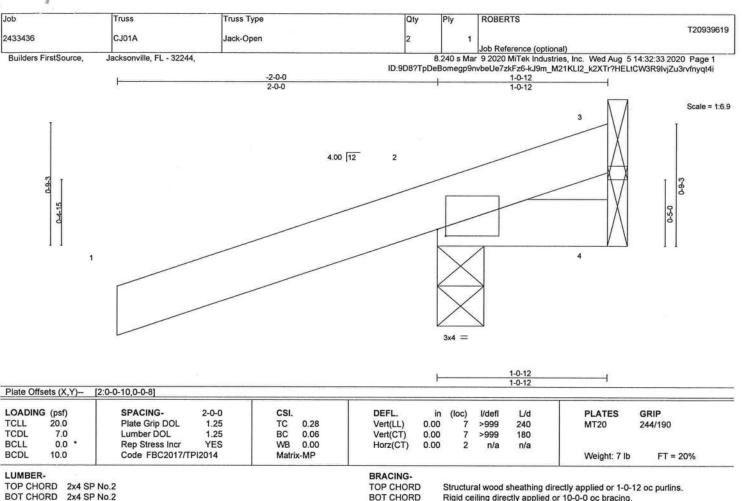
August 5,2020

MARNING - 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 MTEk® 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 adarage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Compon Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801





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

> (size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=60(LC 8)

Max Uplift 3=-25(LC 1), 2=-255(LC 8), 4=-39(LC 1) Max Grav 3=34(LC 8), 2=250(LC 1), 4=48(LC 8)

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

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
- 6) 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.



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

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

August 5,2020

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



Job Truss Truss Type Qty ROBERTS T20939620 2433436 CJ02 Jack-Open Job Reference (optional) **Builders FirstSource** Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:34 2020 Page 1 ID: 9D8? TpDeBomegp 9nvbeUe7zkFz 6-CVj8Bi3f4eQvcudj1ZWWmYQLFTmo1Mzj6jbSBDyqt4h-2-0-0 2-0-0 Scale = 1:14.6 6.00 12 0-8-15 3x8 || Plate Offsets (X,Y)- [5:0-4-1,0-1-8] SPACING-LOADING (psf) DEFL 2-0-0 CSI. in (loc) 1/defi 1 /d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 041 Vert(LL) 0.01 4-5 >999 240 MT20 244/190 TCDL 7.0 BC Lumber DOL 1.25 0.10 0.01 Vert(CT) 4-5 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-MR Weight: 13 lb FT = 20% 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.2 except end verticals. WEBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=104(LC 12)

Max Uplift 5=-118(LC 12), 3=-53(LC 12), 4=-26(LC 9) Max Grav 5=264(LC 1), 3=44(LC 1), 4=48(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-223/266

NOTES-

REACTIONS.

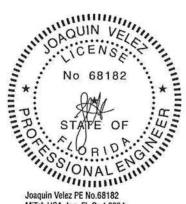
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads

3) * 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.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
- 6) 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.



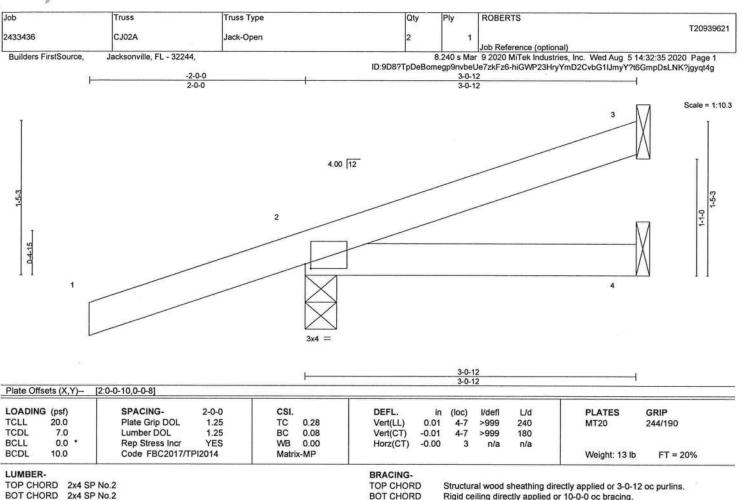
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

August 5,2020

MARNING - 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 show, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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

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

Max Horz 2=92(LC 8) Max Uplift 3=-43(LC 12), 2=-230(LC 8), 4=-23(LC 9)

Max Grav 3=53(LC 1), 2=255(LC 1), 4=48(LC 3)

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

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
- 6) 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.



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

August 5,2020

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



Job Truss Truss Type ROBERTS Qty T20939622 CJ03 2433436 Jack-Open 1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:35 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:9D8?TpDeBomegp9nvbeUe7zkFz6-hiGWP23HryYmD2CvbG1IJmyWSt26mpDsLNK?jgyqt4g -2-0-0 2-0-0 Scale = 1:20.0 6.00 12 3-2-0-8-15 11 3x8 Plate Offsets (X,Y)-[5:0-4-1,0-1-8] LOADING (psf) SPACING-2-0-0 DEFL. CSI I/defl **PLATES** GRIP (loc) L/d TCLL 20.0 Plate Grip DOL 1.25 Vert(LL) 0.07 TC 4-5 >768 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.35 Vert(CT) 0.07 4-5 >855 180 0.0 BCLL Rep Stress Incr YES WB 0.00 Horz(CT) -0.03 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS Weight: 20 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied. WEBS

2x4 SP No.3

REACTIONS.

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

Max Horz 5=161(LC 12)

Max Uplift 5=-128(LC 12), 3=-108(LC 12), 4=-45(LC 9) Max Grav 5=319(LC 1), 3=106(LC 1), 4=86(LC 3)

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

TOP CHORD 2-5=-269/295

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=128, 3=108,
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



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

August 5,2020

MARNING - 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 language. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20501



Job Truss Truss Type Qty ROBERTS Ply T20939623 2433436 CJ03A Jack-Open Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:36 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-9uqucO4vcGgdrCm69_Z_szVi0HOkVFT?a14ZG6yqt4f Scale = 1:13.8 4.00 12 2 0-4-15 Plate Offsets (X,Y)-- [2:0-0-2,0-0-8] LOADING (psf) SPACING-2-0-0 DEFL. **PLATES** GRIP in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.33 Vert(LL) 0.08 4-7 >795 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.32 Vert(CT) 0.07 >911 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 3 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS Weight: 19 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied. REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=124(LC 8)

Max Uplift 3=-92(LC 8), 2=-266(LC 8), 4=-43(LC 9)

Max Grav 3=111(LC 1), 2=315(LC 1), 4=86(LC 3)

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

NOTES- (7)

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) 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) 3, 4 except (jt=lb) 2=266.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



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

August 5,2020

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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



ROBERTS Job Truss Truss Type Qty T20939624 CJ04 2433436 Jack-Open 1 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:37 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-d4OHqk5XNZoUTLLIih4DOB2t0gopEij9ohp6oYyqt4e 1-3-10 2-0-0 Scale = 1:10.3 6.00 12 2 5 0-8-15 3x8 11 1-3-10 1-3-10 Plate Offsets (X,Y)- [5:0-4-1,0-1-8] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP 20.0 TCIL Plate Grip DOL 1.25 TC 0.38 Vert(LL) 0.00 5 >999 240 MT20 244/190 TCDL 7.0 1.25 BC 0.08 Lumber DOL Vert(CT) 0.00 5 >999 180 BCLL 0.0 Rep Stress Incr. WB 0.00 YES Horz(CT) -0.00 3 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-MR Weight: 8 lb FT = 20% LUMBER-BRACING-2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 1-3-10 oc purlins, except end verticals.

BOT CHORD

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

REACTIONS.

TOP CHORD BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS

> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=72(LC 12)

Max Uplift 5=-140(LC 12), 3=-45(LC 1), 4=-22(LC 19) Max Grav 5=267(LC 1), 3=26(LC 8), 4=19(LC 16)

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

TOP CHORD 2-5=-222/301

NOTES-(6)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (it=lb)
- 6) 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.



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

August 5,2020

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Job Truss Truss Type Qty ROBERTS T20939625 2433436 CJ05 JACK 1 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:38 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-5Hyf14698twL4VwUGPbSxOa1J48?z9zl1LZgK?yqt4d -2-0-0 2-0-0 2-7-10 Scale = 1:13.7 6.00 12 2 0-8-15 Plate Offsets (X,Y)- [5:0-4-1,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.40 Vert(LL) 0.00 4-5 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.08 Vert(CT) -0.00 4-5 >999 180 0.0 * BCLL Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-MR Weight: 12 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-7-10 oc purlins, except end verticals.

BOT CHORD

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

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=104(LC 12)

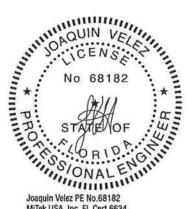
Max Uplift 5=-118(LC 12), 3=-42(LC 12), 4=-21(LC 9) Max Grav 5=257(LC 1), 3=30(LC 1), 4=41(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-216/264

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
- 6) 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.



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

August 5,2020

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Job Truss Truss Type Qty ROBERTS T20939626 2433436 CJ06 Jack-Open 1 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:38 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-5Hyf14698twL4VwUGPbSxOa3F49Pz9zl1LZgK?yqt4d 2-0-0 Scale = 1:9.5 4.00 12 2 0-4-15 Plate Offsets (X,Y)- [2:0-0-10,0-0-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL **Vdefl PLATES** GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.28 Vert(LL) -0.00 >999 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.05 Vert(CT) -0.00 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 BCDL 10.0 Code FBC2017/TPI2014 Matrix-MP Weight: 11 lb FT = 20% LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

REACTIONS.

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

2x4 SP No.2

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

Max Uplift 3=-32(LC 12), 2=-225(LC 8), 4=-18(LC 9)

Max Grav 3=39(LC 1), 2=245(LC 1), 4=39(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=225
- 6) 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.



Structural wood sheathing directly applied or 2-7-6 oc purlins.

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

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

August 5,2020

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



Job Truss Truss Type Qty ROBERTS T20939627 2433436 EJ01 Jack-Partial 13 1 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:39 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-ZTW1EQ6nvB2CifVhq66hTc757UK2icCSG_IDsRyqt4c -2-0-0 7-0-0 2-0-0 7-0-0 Scale = 1:25.8 6.00 12 3x4 = 0-8-15 11 3x8 7-0-0 Plate Offsets (X,Y)- [2:0-2-12,0-0-6] LOADING (psf) SPACING-2-0-0 CSI DEFL. I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.85 Vert(LL) 0.32 5-8 >262 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.73 Vert(CT) 0.28 5-8 >299 180 0.0 * BCLL Rep Stress Incr YES WB 0.00 Horz(CT) -0.06 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS Weight: 28 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

REACTIONS.

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

SLIDER

Left 2x4 SP No.3 1-11-8

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

Max Horz 2=210(LC 12)

Max Uplift 4=-155(LC 12), 2=-143(LC 12), 5=-64(LC 9)

Max Grav 4=165(LC 1), 2=380(LC 1), 5=120(LC 3)

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

TOP CHORD 2-4=-351/315

NOTES-

- NOTES- (7)

 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=155, 2=143.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



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

August 5,2020

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Job Truss Truss Type Qty ROBERTS T20939628 2433436 F.102 Roof Special 12 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:40 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:9D8?TpDeBomegp9nvbeUe7zkFz6-1f4PSI7QgUA3Kp4tOpdw0pgPqunpR1SbVe2mPtyqt4b 5-10-8 5-10-8 7-0-0 6.00 12 Scale = 1:19.7 2x4 4x8 = 4.00 12 0-4-15 5 3x4 3x4 = 11 2x4 5-3-8 0-1-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL **V**defl L/d in PLATES GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.28 Vert(LL) 0.05 6-9 >999 240 244/190 MT20 TCDL 1.25 7.0 Lumber DOL BC 0.25 Vert(CT) 0.05 6-9 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Weight: 34 lb FT = 20% LUMBER-BRACING-

WEBS

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 5=Mechanical, 6=0-3-8

Max Horz 2=146(LC 12)

2x4 SP No.3

Max Uplift 2=-280(LC 8), 5=-108(LC 12), 6=-87(LC 8) Max Grav 2=336(LC 1), 5=118(LC 1), 6=161(LC 1)

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

WEBS 3-5=-241/433

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=280, 5=108,
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.

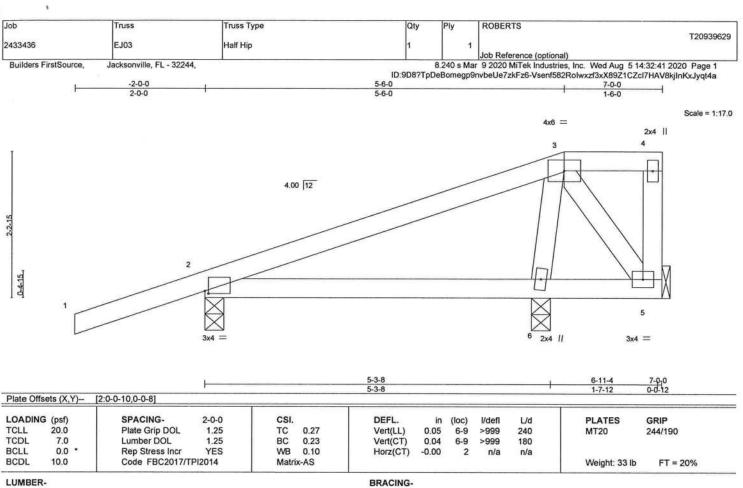


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 5,2020

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TOP CHORD

BOT CHORD

REACTIONS.

TOP CHORD 2x4 SP No.2

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

(size) 2=0-3-8, 6=0-3-8, 5=Mechanical

Max Horz 2=133(LC 8)

Max Uplift 2=-277(LC 8), 6=-126(LC 8), 5=-63(LC 8)

Max Grav 2=329(LC 1), 6=195(LC 23), 5=94(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-5=-182/338

NOTES-(9)

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=277, 6=126.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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

August 5,2020

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Job Truss Truss Type Qty ROBERTS T20939630 HJ01 2433436 Diagonal Hip Girder Job Reference (optional) Builders FirstSource. Jacksonville, FL - 32244. 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:42 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-z2BAtR9gC6QnZ7EFVEfO5ElbmhNzvvduyyXtTmyqt4Z 9-10-13 2-9-15 4-6-0 Scale = 1:25.2 4.24 12 3x4 = 3x4 = 3 0-8-11 14 15 8 2x4 || 4x8 || 9-10-13 Plate Offsets (X,Y)- [2:0-3-0,0-0-7] LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl L/d **PLATES** GRIP TCIL 200 Plate Grip DOI 1.25 TC 0.89 Vert(LL) 0.13 7-8 >942 240 MT20 244/190 TCDL 7.0 Lumber DOL BC 1.25 0.59 Vert(CT) -0.137-8 >915 180 BCLL 0.0 Rep Stress Incr WB NO 0.28 Horz(CT) -0.025 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-MS Weight: 48 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 Rigid ceiling directly applied or 7-9-15 oc bracing.

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 5=Mechanical, 2=0-4-15, 6=Mechanical

Max Horz 2=234(LC 4)

Max Uplift 5=-152(LC 4), 2=-417(LC 4), 6=-243(LC 5) Max Grav 5=154(LC 1), 2=437(LC 1), 6=252(LC 3)

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

TOP CHORD 2-4=-483/471

BOT CHORD 2-8=-490/425, 7-8=-490/425

WEBS 4-7=-457/527

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 112 lb down and 160 lb up at 1-5-12, 112 lb down and 160 lb up at 1-5-12, 23 lb down and 41 lb up at 4-3-11, 23 lb down and 41 lb up at 4-3-11, and 49 lb down and 106 lb up at 7-1-10, and 49 lb down and 106 lb up at 7-1-10 on top chord, and 42 lb down and 61 lb up at 1-5-12, 42 lb down and 61 lb up at 1-5-12, 50 lb down and 32 lb up at 4-3-11, 50 lb down and 32 lb up at 4-3-11, and 38 lb down and 58 lb up at 7-1-10, and 38 lb down and 58 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-54, 6-9=-20

Continued on page 2



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

August 5,2020

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Job Truss Truss Type Qty ROBERTS T20939630 2433436 HJ01 Diagonal Hip Girder

Builders FirstSource,

Jacksonville, FL - 32244,

Job Reference (optional)

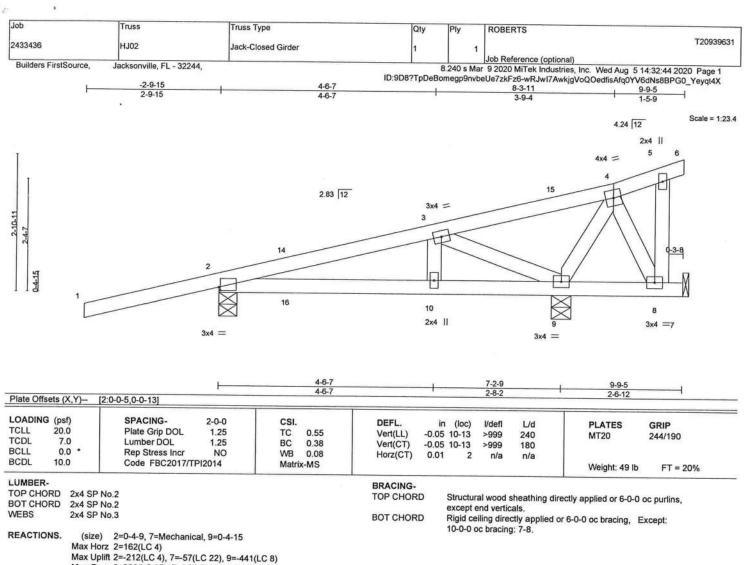
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ID:9D8?TpDeBomegp9nvbeUe7zkFz6-z2BAtR9gC6QnZ7EFVEf05ElbmhNzvvduyyXtTmyqt4Z

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=12(F=6, B=6) 3=82(F=41, B=41) 13=-59(F=-30, B=-30) 14=62(F=31, B=31) 15=-34(F=-17, B=-17)





Max Grav 2=322(LC 35), 7=30(LC 13), 9=566(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-330/77

TOP CHORD

WEBS 3-9=-406/260, 4-9=-338/250

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ff; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb)
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 101 lb up at 1-6-1, 96 lb down and 101 lb up at 1-6-1, 26 lb down and 39 lb up at 4-4-0, 26 lb down and 39 lb up at 4-4-0, and 50 lb down and 96 lb up at 7-1-15, and 50 lb down and 96 lb up at 7-1-15 on top chord, and 76 lb down and 68 lb up at 1-6-1, 76 lb down and 68 lb up at 1-6-1, 52 lb down and 30 lb up at 4-4-0, 52 lb down and 30 lb up at 4-4-0, and 39 lb down and 61 lb up at 7-1-15, and 39 lb down and 61 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 5-6=-14, 7-11=-20

Concentrated Loads (lb)

Vert: 10=3(F=2, B=2) 9=-48(F=-24, B=-24) 14=48(F=24, B=24) 15=-70(F=-35, B=-35) 16=66(F=33, B=33)

No 68182

No 68182

No 68182

No 68182

DRIDA

Joaquin Velez PE No.68182

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

August 5,2020

MARNING - 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 MTEK® 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 property incorporate this design into the overall building designer must verify the applicability of design parameters and property 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 ucallapse 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

Job Truss Truss Type Qty ROBERTS T20939632 2433436 **HJ03** Roof Special Girder Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:45 2020 Page 1 ID: 9D8? TpDeBomegp 9 nvbeUe7zkFz 6-OdtIVTBYV1pLQayqAND5jtNDpvWe6KiKewlX45yqt4Wards and the property of theScale = 1:16.3 2x4 || 3 3.33 12 0-8-15 10 11 4x6 = 3x8 MT20HS II 5-0-0 Plate Offsets (X,Y)-- [2:0-0-0,0-1-6], [2:0-2-8,0-7-14] LOADING (psf) SPACING-2-0-0 CSL DEFL (loc) 1/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.39 Vert(LL) -0.03 4-7 >999 240 MT20 244/190 BC TCDL 7.0 Lumber DOL 1.25 0.14 Vert(CT) -0.03 4-7 >999 180 MT20HS 187/143 0.0 BCLL Rep Stress Incr WB NO 0.00 Horz(CT) 0.01 2 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-MP Weight: 32 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, BOT CHORD 2x4 SP No.2 except end verticals 2x4 SP No.3 BOT CHORD WEBS Rigid ceiling directly applied or 10-0-0 oc bracing. WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 4=0-3-11, 2=0-5-3

Max Horz 2=131(LC 4)

Max Uplift 4=-106(LC 5), 2=-390(LC 4) Max Grav 4=114(LC 35), 2=430(LC 1)

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

NOTES- (8)

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=106, 2=390.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 21 lb down and 21 lb up at 1-10-10, and 86 lb down and 110 lb up at 2-4-2, and 19 lb down and 38 lb up at 4-10-8 on top chord, and 57 lb down and 23 lb up at 1-10-10, and 44 lb down and 48 lb up at 2-4-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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=1.25, Plate Increase=1.25

Uniform Loads (plf)

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

Vert: 3=-0(B) 9=28(B) 10=4(F)

No 68182

No 68182

THE OF THE

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

August 5,2020

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



Job Truss Truss Type Qty ROBERTS T20939633 T01 2433436 Common 1 Job Reference (optional) Jacksonville, FL - 32244, Builders FirstSource 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:47 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-K0?3w9Dp1e33fu6DloFZoISXsi1AaCCd6EEe9zyqt4U 14-10-9 20-0-0 22-0-0 4-10-9 Scale = 1:39.7 4x6 = 6.00 12 2x4 \\ 2x4 // 3x4 > 3x4 / 12 11 3x4 = 3x6 = 3x4 = 3x8 3x8 || 20-0-0 7-0-10 5-10-13 7-0-10 [2:0-4-12,0-0-2], [8:0-4-12,0-0-2] SPACING-2-0-0 CSI. DEFL

Plate Offsets (X,Y)-LOADING (psf) in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.54 Vert(LL) 0.17 10-12 >999 240 MT20 244/190 7.0 BC TCDL Lumber DOL 1.25 0.78 Vert(CT) -0.26 10-12 >920 180 0.0 Rep Stress Incr WB BCLL NO 0.19 Horz(CT) 0.05 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-AS Weight: 103 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=126(LC 12)

Max Uplift 2=-425(LC 12), 8=-425(LC 13) Max Grav 2=1025(LC 1), 8=1025(LC 1)

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

TOP CHORD 2-4=-1435/788, 4-5=-1320/779, 5-6=-1320/779, 6-8=-1435/788

BOT CHORD 2-12=-541/1223, 10-12=-321/922, 8-10=-559/1223

WEBS 5-10=-259/497, 5-12=-259/497

NOTES- (8)

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=425, 8=425.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-54, 5-9=-54, 12-13=-20, 10-12=-80(F=-60), 10-17=-20



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

August 5,2020

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

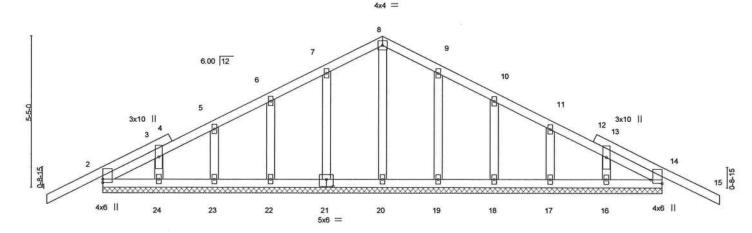
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

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



Job Truss Truss Type Qty ROBERTS T20939634 2433436 T01G Common Supported Gable 1 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:49 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-GO7pLqE3YFJnvBGcPCI1tjXxcWv128pwZYjlDsyqt4S 10-0-0 20-0-0 22-0-0 2-0-0 10-0-0

Scale = 1:39.7



		1				20-0-0						
Plate Off	fsets (X,Y)-	[14:Edge,0-4-13], [21:0-3	-0,0-3-0]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.03	15	n/r	120	10000 Veest	
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	14	n/a	n/a	1	
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-S						Weight: 113 lb	FT = 20%

20-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=-119(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 24, 19, 18, 17, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 19, 18, 17, 16

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

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 24, 19, 18, 17, 16.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 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.



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

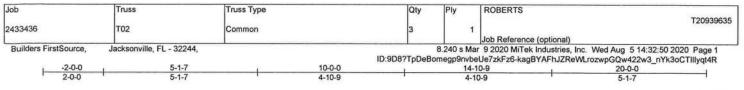
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

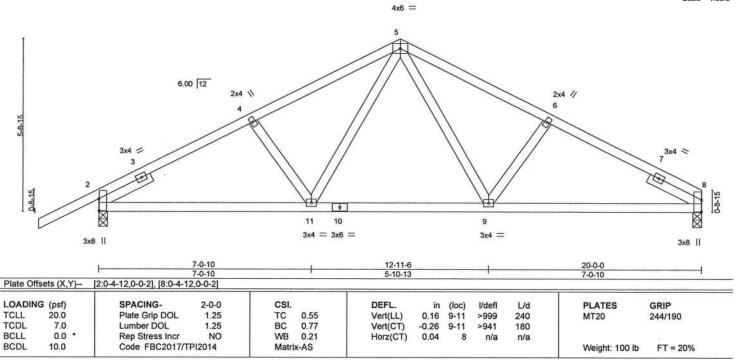
August 5,2020

MARNING - 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 MTex® 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 property incorporate this design into the overall building designer must verify the applicability of design parameters and property 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 uccling see 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Scale = 1:36.9



BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

2x4 SP No.3 WEBS

SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

REACTIONS.

(size) 8=0-3-8, 2=0-3-8 Max Horz 2=89(LC 16)

Max Uplift 8=-200(LC 13), 2=-240(LC 12) Max Grav 8=912(LC 1), 2=1030(LC 1)

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

2-4=-1445/802, 4-5=-1330/794, 5-6=-1346/806, 6-8=-1464/817 TOP CHORD 2-11=-618/1232, 9-11=-382/932, 8-9=-636/1256

BOT CHORD 5-9=-278/523, 5-11=-255/496

WEBS

NOTES-(8)

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

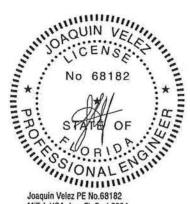
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=200, 2=240,
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-54, 5-8=-54, 11-16=-20, 9-11=-80(F=-60), 9-12=-20



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

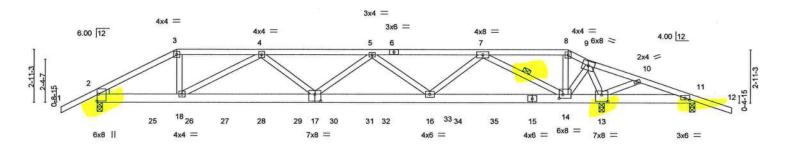
August 5,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BFFORE 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Truss Truss Type Qty ROBERTS T20939636 2433436 T03 Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:52 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:9D8?TpDeBomegp9nvbeUe7zkFz6-hzoxzsHxrAhMmf?A5LrkVL9JljirFIXMFWyPqByqt4P 29-9-6 33-0-0 21-3-10 26-0-0 6-1-6 2-7-14 3-2-10

Scale = 1:61.3



	-	4-4-8	12-0-4			-4-4			-0-0	127-10		
		4-4-8	7-7-12	,		4-0			-12	1-10	-4 5-1-12	
Plate Offse	ets (X,Y)-	[2:0-0-4,0-0-8], [2:0-0-8,0	-5-10], [2:Edge,	0-0-15], [11	:0-3-0,0-1-5]	, [13:0-4-0,0-4-8],	[14:0-2-8	,0-2-8	, [17:0-4	0,0-4-8]		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	0.37 1	17-18	>894	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.41 1	17-18	>817	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS	10 100				- 1	Weight: 188 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 11=0-3-8

Max Horz 2=70(LC 38)

Max Uplift 2=-981(LC 5), 13=-2224(LC 5), 11=-814(LC 19)

Max Grav 2=1553(LC 19), 13=2951(LC 1), 11=556(LC 4)

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

TOP CHORD 2-3=-2471/1757, 3-4=-2200/1617, 4-5=-3857/2921, 5-7=-3038/2345, 7-8=-231/425,

8-9=-262/472, 9-10=-2057/2820, 10-11=-1920/2616

BOT CHORD 2-18=-1431/2147, 17-18=-2427/3426, 16-17=-2654/3657, 14-16=-1377/1893, 13-14=-1662/1314, 11-13=-2459/1850

3-18=-701/945, 4-18=-1439/1120, 4-17=-474/590, 5-17=-210/257, 5-16=-795/570,

7-16=-1127/1517, 7-14=-2656/1975, 8-14=-354/219, 9-14=-1767/2335, 9-13=-2896/2193,

10-13=-305/243

NOTES- (9)

WEBS

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=981, 13=2224, 11=814
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 90 lb up at 3-0-12, 98 lb down and 128 lb up at 5-0-12, 98 lb down and 128 lb up at 7-0-12, 98 lb down and 128 lb up at 11-0-12, 98 lb down and 128 lb up at 11-0-12, 98 lb down and 128 lb up at 11-0-12, 98 lb down and 128 lb up at 15-0-12, 98 lb down and 128 lb up at 15-0-12, 98 lb down and 128 lb up at 15-11-4, 98 lb down and 128 lb up at 12-11-4, 98 lb down and 128 lb up at 12-11-4, and 98 lb down and 128 lb up at 23-11-4, and 62 lb down and 213 lb up at 25-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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.

COARLEASE(SheStandard



Structural wood sheathing directly applied or 2-6-15 oc purlins.

Rigid ceiling directly applied or 4-5-1 oc bracing.

1 Row at midpt

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

August 5,2020

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 **ANSITPH Quality Criteria, DSB-99 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	ROBERTS	
2433436	тоз	Hip Girder	1	1		120939636
					Job Reference (optional)	

Builders FirstSource,

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:52 2020 Page 2 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-hzoxzsHxrAhMmf?A5LrkVL9JljirFIXMFWyPqByqt4P

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-54, 3-8=-54, 8-9=-54, 9-12=-54, 19-22=-20

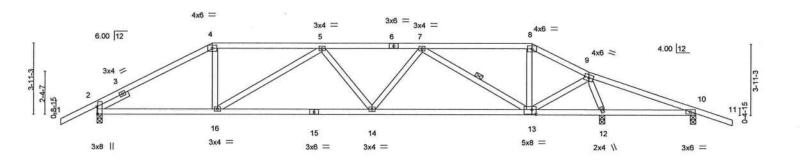
Concentrated Loads (lb)

Vert: 14=-62(B) 15=-98(B) 25=-74(B) 26=-98(B) 27=-98(B) 28=-98(B) 29=-98(B) 30=-98(B) 31=-98(B) 32=-98(B) 33=-98(B) 34=-98(B) 35=-98(B)



Job	Truss	Truss Type		Qty	Ply	ROBERTS		
2433436	T04	Hip		1	1	Job Reference (optional)		T20939637
Builders FirstSource,	Jacksonville, FL - 32244,		ID-9	D82TnDeB		ar 9 2020 MiTek Industries, Ince eUe7zkFz6-dMwiOYICNox4?z8		
2-0-0	6-4-8	12-5-3	17-11-5	ı ı pueb	24-0-0	27-1-8	33-0-0	35-0-0
2-0-0	6-4-8	6-0-11	5-6-2	9	6-0-11	3-1-8	5-10-8	2-0-0

Scale = 1:61.3



	9	6-4-8		15-2-4		i	24-0-0		27-10-4	33-0-0	
		6-4-8		8-9-12		1	8-9-12		3-10-4	5-1-12	
Plate Offse	ets (X,Y)-	[2:0-4-12,0-0-6], [13:0-2-	12,0-3-0]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.14 14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.31 14-16	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.06 12	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-AS				530919654	Weight: 161 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2

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

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 12=0-3-8, 10=0-3-8

Max Horz 2=-57(LC 10)

Max Uplift 2=-220(LC 9), 12=-373(LC 8), 10=-199(LC 23) Max Grav 2=1087(LC 1), 12=1573(LC 1), 10=6(LC 24)

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

TOP CHORD 2-4=-1530/769, 4-5=-1320/751, 5-7=-1734/928, 7-8=-612/424, 8-9=-725/438, 9-10=-300/945

BOT CHORD

2-16=-504/1304, 14-16=-763/1771, 13-14=-672/1551, 12-13=-385/125, 10-12=-854/390 4-16=-103/449, 5-16=-604/298, 7-14=-45/375, 7-13=-1118/556, 9-13=-364/1109,

9-12=-1544/742

NOTES-(8)

WEBS

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=220, 12=373, 10=199.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



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

August 5,2020

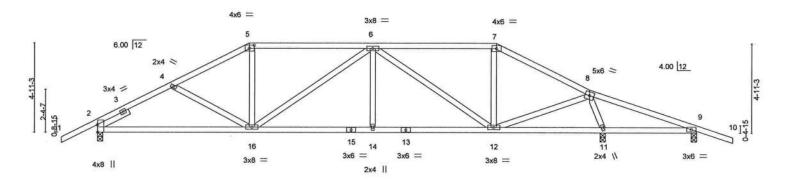
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty ROBERTS T20939638 T05 2433436 Hip 1 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:55 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-5YU4buJq853xd6jlmTOR7_nxrxo5SdqoxUA3RVyqt4M 35-0-0 2-0-0 15-2-4 22-0-0 27-1-8 33-0-0 4-2-1 6-9-12 6-9-12

Scale = 1:61.3



	1	8-4-8		15-2-4		22-0	-0	1	27-10-4	33-0-0	
	1	8-4-8		6-9-12		6-9-1	2		5-10-4	5-1-12	200
Plate Offse	ets (X,Y)-	[2:0-5-0,Edge], [5:0-3-4,0	-2-0]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L∕d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.09 14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.18 16-19	>999	180	WEST COLD	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05 11	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	-AS					Weight: 171 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

BOT CHORD 2x4 SP No.3 WEBS

Left 2x4 SP No.3 1-11-8 SLIDER

REACTIONS.

(size) 2=0-3-8, 11=0-3-8, 9=0-3-8

Max Horz 2=-70(LC 10)

Max Uplift 2=-216(LC 12), 11=-296(LC 8), 9=-193(LC 9) Max Grav 2=1109(LC 1), 11=1430(LC 1), 9=143(LC 24)

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

2-4=-1549/838, 4-5=-1436/768, 5-6=-1270/750, 6-7=-911/586, 7-8=-1077/589, TOP CHORD

8-9=-186/576

BOT CHORD 2-16=-579/1324, 14-16=-584/1479, 12-14=-584/1479, 9-11=-499/279 WEBS

5-16=-96/386, 6-16=-348/147, 6-14=0/261, 6-12=-739/339, 7-12=-23/259,

8-12=-325/987, 8-11=-1367/737

NOTES-(8)

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=216, 11=296, 9=193.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



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

August 5,2020

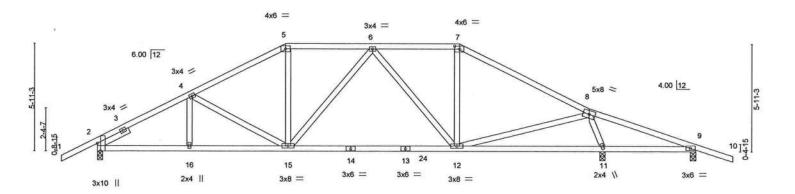
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 REFORE U.S.F. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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



Job Truss Truss Type Qty ROBERTS T20939639 2433436 T06 Hip 1 Job Reference (optional) Builders FirstSource Jacksonville FL - 32244 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:56 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-Zk2SpEKSvPBoEGlyKAwgfBK4RL7qBCEyA8wdzyyqt4L 2-0-0 20-0-0 33-0-0 27-1-8 35-0-0 5.3.0 4-9-12 4-9-12

Scale = 1:61.3



	1	5-0-15	10-4-8	20-	0-0	Ţ.	27-1	0-4	33-0-0	1
		5-0-15	5-3-9	9-	7-8		7-1	0-4	5-1-12	
Plate Offse	ets (X,Y)-	[2:0-5-0,Edge], [7:0-3-4,0)-2-0]							
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL)	-0.19 12-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.37 12-15	>911	180	1,500,755	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.04 11	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-AS					Weight: 175 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 9=0-3-8

Max Horz 2=-84(LC 10)

Max Uplift 2=-231(LC 12), 11=-249(LC 8), 9=-212(LC 9) Max Grav 2=1116(LC 1), 11=1380(LC 1), 9=185(LC 24)

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

TOP CHORD 2-4=-1581/837, 4-5=-1349/751, 5-6=-1173/737, 6-7=-987/649, 7-8=-1188/634,

8-9=-126/421

BOT CHORD 2-16=-581/1358, 15-16=-581/1358, 12-15=-429/1182, 9-11=-350/220

WEBS 5-15=-104/350, 6-12=-384/180, 7-12=-31/283, 8-12=-257/903, 8-11=-1305/752

NOTES- (8)

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=231, 11=249, 9=212.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



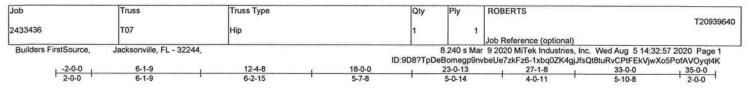
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

August 5,2020

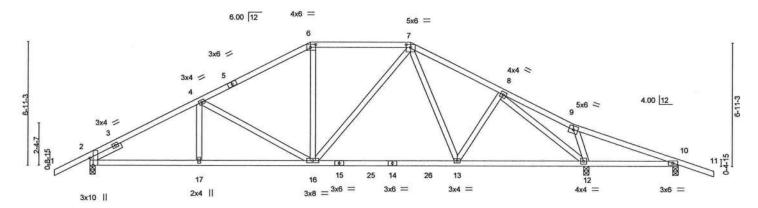
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Scale = 1:62.3



	-	6-1-9	12-			20-7-5			7-10-4	33-0-0	
		6-1-9	6-2		10%	8-2-13		7	-2-15	5-1-12	1
Plate Offs	sets (X,Y)-	[2:0-5-0,Edge], [6:0-3-8,0	-2-0], [7:0-3-0,	0-2-0]							
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.15 13-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.27 13-16	>999	180	MANAGER	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.05 12	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-AS	20.04.40.0000.0000.000				Weight: 178 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 12=0-3-8, 10=0-3-8

Max Horz 2=-97(LC 10)

Max Uplift 2=-244(LC 12), 12=-245(LC 13), 10=-209(LC 9) Max Grav 2=1129(LC 1), 12=1296(LC 1), 10=254(LC 24)

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

TOP CHORD 2-4=-1613/859, 4-6=-1263/727, 6-7=-1069/722, 7-8=-1156/707

BOT CHORD 2-17=-592/1383, 16-17=-592/1383, 13-16=-292/953, 12-13=-368/923

WEBS 4-16=-377/315, 6-16=-64/300, 7-16=-68/277, 8-12=-1308/541, 9-12=-319/353

NOTES- (8)

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=244, 12=245, 10=209.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



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

August 5,2020

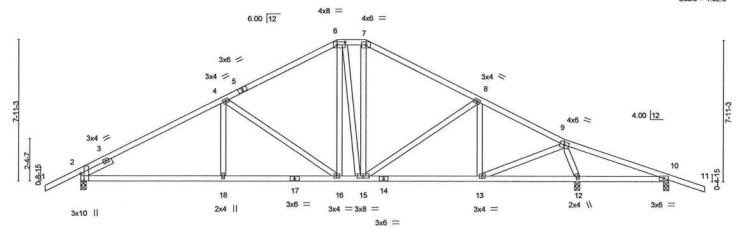
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Job Truss Truss Type Qty ROBERTS T20939641 2433436 T07A Hip 1 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:32:59 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-_JjbRFMKCKZM5k1X?JTNHqyceYAaOWQOs68HaHyqt4I 2-0-0 8-0-0 16-0-0 22-4-8 6-4-8 27-1-8 33-0-0 35-0-0 8-0-0 6-4-8 5-10-8

Scale = 1:62.3



	1	8-0-0		14-4-8	16-0-0		22-4-8		27-10-4	33-0-0	9
	7	8-0-0		6-4-8	1-7-8		6-4-8		5-5-12	5-1-12	
Plate Offse	ets (X,Y)-	[2:0-5-0,Edge], [6:0-5-8,0	-2-0]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.07 16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.15 16-18	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.04 12	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-AS				(2)(4)(1)(()()	Weight: 191 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 12=0-3-8, 10=0-3-8

Max Horz 2=-111(LC 10)

Max Uplift 2=-254(LC 12), 12=-257(LC 13), 10=-230(LC 9) Max Grav 2=1115(LC 1), 12=1386(LC 1), 10=195(LC 24)

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

TOP CHORD 2-4=-1549/845

2-4=-1549/845, 4-6=-1083/693, 6-7=-881/683, 7-8=-1062/682, 8-9=-1088/652, 9-10=-104/474

BOT CHORD 2-18=-560/1316, 16-18=-560/1316, 15-16=-247/899, 13-15=-376/927, 10-12=-404/203 WEBS 4-18=0/286, 4-16=-528/400, 6-16=-191/350, 7-15=-113/287, 8-13=-266/194,

9-13=-331/938, 9-12=-1325/723

NOTES- (8)

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

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=254, 12=257, 10=230.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



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

August 5,2020

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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Qty Truss Truss Type ROBERTS T20939642 2433436 T08 Roof Special Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:33:00 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-SWHzebNyzehDjucjZ0_cq1Vn9yWr71iX5muq6jyqt4H 27-1-8 33-0-0 4-9-0 Scale = 1:62.9 4x6 = 6.00 12 5x6 = 3x4 < 4.00 12 14 11 15 13 12 10 3x4 = 3x6 =3x6 = 2x4 \\ 3x6 = 2x4 || 3x8 = 3x8 8-0-0 Plate Offsets (X,Y)-[2:0-5-0,Edge], [4:0-3-0,0-3-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defi L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.44 Vert(LL) -0.07 13-15 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.61 -0.15 13-15 Vert(CT) >999 180 BCLL 0.0 Horz(CT) Rep Stress Incr YES WB 0.37 0.04 10 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS Weight: 172 lb FT = 20%LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied.

BOT CHORD

WEBS

Rigid ceiling directly applied.

4-13, 6-13

1 Row at midpt

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

WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 10=0-3-8, 8=0-3-8

Max Horz 2=-116(LC 10)

Max Uplift 2=-256(LC 12), 10=-264(LC 13), 8=-232(LC 9) Max Grav 2=1114(LC 1), 10=1396(LC 1), 8=194(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1544/848, 4-5=-1050/680, 5-6=-1049/674, 6-7=-1083/656, 7-8=-120/501

BOT CHORD

2-15=-562/1312, 13-15=-563/1309, 12-13=-382/925, 8-10=-430/218

WEBS 4-15=0/286, 4-13=-564/415, 5-13=-281/526, 6-12=-269/201, 7-12=-351/958,

7-10=-1338/732

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=256, 10=264, 8=232, 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord. 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.



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

August 5,2020

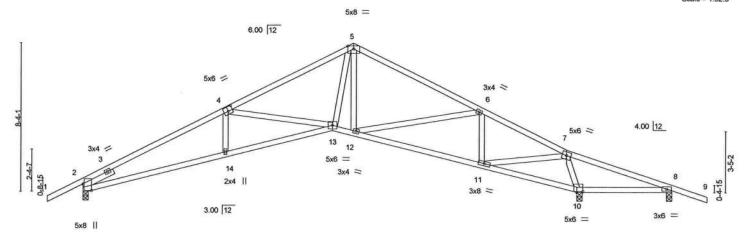
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters and properly incorporate this design into the overall building designer must verify 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

ANSITP1 Quality Criteria, DSB-89 and BCSI Building Comparety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Qty Job Truss Truss Type ROBERTS T20939643 2433436 T09 ROOF SPECIAL 1 Job Reference (optional) Builders FirstSource Jacksonville, FL - 32244 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:33:01 2020 Page 1 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-wirLsxNbkxq4L1Bv6kVrMF1vgMnrsPQhKQdOe9yqt4G 22-4-8 8-0-0 15-2-4 7-2-4 27-1-8 33-0-0 35-0-0 7-2-4 4-9-0

Scale = 1:62.3



	L	8-0-0	- 4	14-0-0	15-2-4,	2	2-4-8	- 3	27-8-8	27-10-4	33-0-0	
	1	8-0-0		6-0-0	1-2-4	7	-2-4		5-4-0	0-1-12	5-1-12	
Plate Offse	ets (X,Y)	[2:0-4-7,Edge], [4:0-3-0,0	-3-0], [10:0-4-0	0,0-0-8]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl	L∕d	PLA	TES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.20 13-14	>999	240	MT2	20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.38 13-14	>872	180	223733		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.20 10	n/a	n/a			
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	x-AS					Wei	ght: 165 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

1-4: 2x4 SP M 31 2x4 SP No.2

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

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 8=0-3-8, 10=0-3-8

Max Horz 2=-116(LC 10)

Max Uplift 2=-245(LC 12), 8=-265(LC 11), 10=-291(LC 13) Max Grav 2=1049(LC 1), 8=37(LC 12), 10=1747(LC 1)

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

TOP CHORD 2-4=-2386/1205, 4-5=-1709/846, 5-6=-1438/735, 6-7=-1006/612, 7-8=-480/1357

BOT CHORD 2-14=-904/2112, 13-14=-912/2121, 12-13=-297/1239, 11-12=-358/898, 10-11=-889/350,

8-10=-1238/540

4-13=-659/527, 5-13=-389/989, 6-12=-41/446, 6-11=-575/331, 7-11=-667/1722,

7-10=-1437/783

NOTES- (8)

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=245, 8=265, 10=291.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



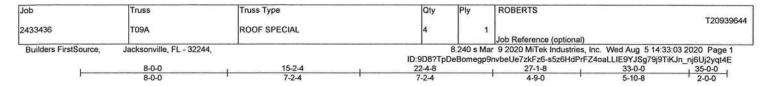
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

August 5,2020

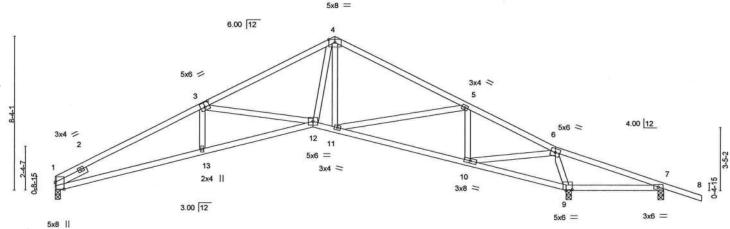
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601









	1	8-0-0	T	14-0-0	75-2-4	22-4-	-8			27-8-8	27-10-4	33-0-0	1
		8-0-0	1	6-0-0	1-2-4	7-2-	4	- 1		5-4-0	0-1-12	5-1-12	1
Plate Off	sets (X,Y)-	[1:0-4-7,Edge], [3:0-3-0,0	-3-0], [9:0-4-0,	0-0-8]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	oc)	l/defl	L/d	PLA	ATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	1.00	Vert(LL)	-0.20 12-	13 :	>999	240	MT2	20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.39 12-	13 :	>848	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.21	9	n/a	n/a			
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-AS						Wei	ight: 161 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

2x4 SP No.3 WEBS

Left 2x4 SP No.3 1-11-8 SLIDER

REACTIONS.

(size) 1=0-3-8, 7=0-3-8, 9=0-3-8

Max Horz 1=-124(LC 8)

Max Uplift 1=-206(LC 12), 7=-274(LC 11), 9=-292(LC 13) Max Grav 1=935(LC 1), 7=37(LC 12), 9=1766(LC 1)

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

TOP CHORD 1-3=-2414/1252, 3-4=-1715/870, 4-5=-1441/753, 5-6=-994/621, 6-7=-470/1395

BOT CHORD 1-13=-967/2143, 12-13=-973/2151, 11-12=-312/1241, 10-11=-373/887, 9-10=-923/355,

3-12=-684/546, 4-12=-408/999, 5-11=-41/456, 5-10=-584/333, 6-10=-671/1744,

6-9=-1448/788

NOTES-(8)

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=206, 7=274, 9=292.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



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

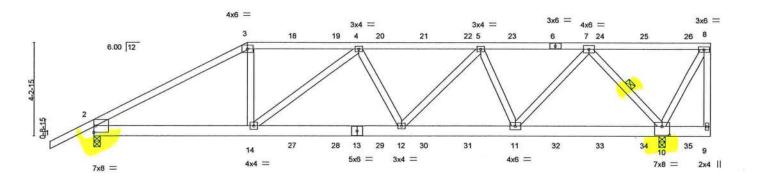
August 5,2020

MARNING - 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 MTek® 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 designer. 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent oclapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIPHI Quality Criteria, DSB-89 and BCSI Building Comp Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty ROBERTS T20939645 2433436 T10 Half Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:33:04 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:9D8?TpDeBomegp9nvbeUe7zkFz6-KHXUUzQT0sCfCVvUos3Y_tfLCZsh3mh70Ns2FUyqt4D 17-7-4 5-6-7 12-0-13 5-0-13

Scale = 1:50.5



⊢		7-0-0		14-0-3			19-2-2			26-0-0	
	7-0-0			7-0-3			5-2-0	1.		6-9-14	2-0-0
Plate Offse	ets (X,Y)-	[2:0-0-8,0-0-4], [2:0-5-10									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	0.27 12-1	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.26 12-1	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	-0.06 1	0 n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	c-MS	50.05				Weight: 171 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

1-3: 2x4 SP M 31 **BOT CHORD** 2x6 SP M 26 *Except*

9-13: 2x6 SP No.2 2x4 SP No.3

WEBS WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=213(LC 8)

Max Uplift 2=-1381(LC 8), 10=-1947(LC 5)

Max Grav 2=1889(LC 1), 10=2403(LC 1)

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

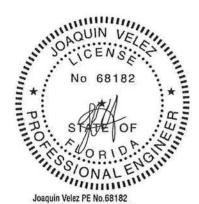
TOP CHORD 2-3=-3141/2477, 3-4=-2755/2266, 4-5=-3373/2753, 5-7=-2569/2080

BOT CHORD 2-14=-2240/2723, 12-14=-2819/3425, 11-12=-2423/2969, 10-11=-1234/1505 WEBS 3-14=-681/893, 4-14=-913/746, 5-12=-489/594, 5-11=-1061/910, 7-11=-1294/1628,

7-10=-2436/2015

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1381, 10=1947.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 236 lb down and 307 lb up at 7-0-0, 111 lb down and 155 lb up at 9-0-12, 111 lb down and 155 lb up at 11-0-12, 111 lb down and 155 lb up at 13-0-12, 111 lb down and 155 lb up at 15-0-12, 111 lb down and 155 lb up at 17-0-12, 111 lb down and 155 lb up at 19-0-11, 111 lb down and 155 lb up at 21-0-11, 111 lb down and 155 lb up at 23-0-11, and 111 lb down and 155 lb up at 25-0-11, and 116 lb down and 155 lb up at 27-0-11 on top chord, and 276 lb down and 364 lb up at 7-0-0, 80 lb down and 84 lb up at 9-0-12, 80 lb down and 84 lb up at 11-0-12, 80 lb down and 84 lb up at 13-0-12, 80 lb down and 84 lb up at 15-0-12, 80 and 84 lb up at 19-0-11, 80 lb down and 84 lb up at 21-0-11, 80 lb down and 84 lb up at 23-0-11, and 80 lb down and 84 lb up at 25-0-11, and 84 lb down and 81 lb up at 27-0-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any Committed on building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 2-6-5 oc purlins,

Rigid ceiling directly applied or 4-3-13 oc bracing.

except end verticals.

1 Row at midpt

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

August 5,2020

MARNING - 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 MITE& 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 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 ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job	Truss	Truss Type	Qty	Ply	ROBERTS	Processor and the
2433436	T10	Half Hip Girder	1	1		T20939645
					Job Reference (optional)	

Builders FirstSource,

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:33:04 2020 Page 2 ID:9D8?TpDeBomegp9nvbeUe7zkFz6-KHXUUzQT0sCfCVvUos3Y_tfLCZsh3mh70Ns2FUyqt4D

LOAD CASE(S) Standard

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

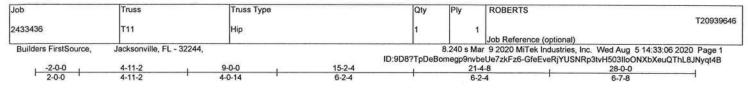
Vert: 1-3=-54, 3-8=-54, 9-15=-20

Concentrated Loads (lb)

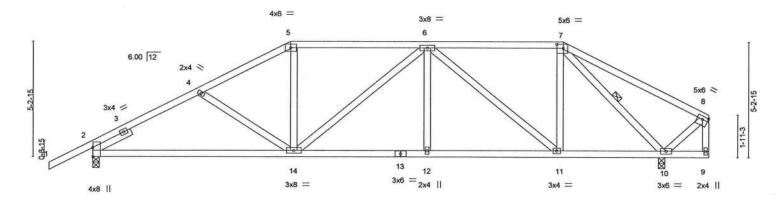
Vert: 3=-189(F) 6=-111(F) 14=-255(F) 11=-56(F) 18=-111(F) 19=-111(F) 20=-111(F) 21=-111(F) 22=-111(F) 23=-111(F) 24=-111(F) 25=-111(F) 26=-116(F)

27=-56(F) 28=-56(F) 29=-56(F) 30=-56(F) 31=-56(F) 32=-56(F) 33=-56(F) 34=-56(F) 35=-58(F)





Scale = 1:50.5



9-0-0			-1	15-2-4			21-4-8 6-2-4			6-0-028-0-0 -1-12 2-0-0	
Plate Offsets (X,Y)-		[2:0-5-0,Edge], [7:0-3-8,0)-2-4], [8:Edge	,0-1-12]				•		4-5-12	7-1-12 2-0-0
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.12 14-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.23 14-17	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.05 10	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-AS	0.21				Weight: 158	ib FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=110(LC 12)

Max Uplift 2=-215(LC 12), 10=-190(LC 8) Max Grav 2=1069(LC 1), 10=1100(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1473/789, 4-5=-1318/709, 5-6=-1160/692, 6-7=-765/501 BOT CHORD 2-14=-674/1262, 12-14=-564/1250, 11-12=-564/1250, 10-11=-321/750

5-14=-86/358, 6-11=-670/308, 7-11=-156/533, 7-10=-1200/583

NOTES- (8)

WEBS

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=215, 10=190.
 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord.

 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1 Row at midpt

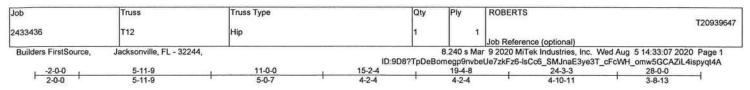
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

August 5,2020

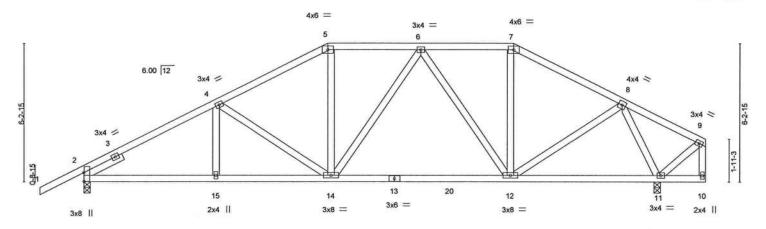
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





Scale = 1:50.1



	6	5-11-9	-1	11-0-0		19-4-	8			25-10-4 2	6-0-028-0-0
		5-11-9	1	5-0-7	-	8-4-8	3			6-5-12	1-1-12 2-0-0
Plate Offs	ets (X,Y)-	[2:0-4-12,0-0-2]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.12 12-14	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.23 12-14	>999	180	70,000,000,000	
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04 11	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	k-AS	100000000000000000000000000000000000000				Weight: 164 I	b FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 11=0-3-8 Max Horz 2=123(LC 12)

Max Uplift 2=-227(LC 12), 11=-194(LC 13) Max Grav 2=1066(LC 1), 11=1103(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-1481/775, 4-5=-1206/680, 5-6=-1031/666, 6-7=-804/545, 7-8=-958/548 TOP CHORD

BOT CHORD 2-15=-657/1266, 14-15=-657/1266, 12-14=-432/994, 11-12=-208/413

4-14=-295/265, 5-14=-101/307, 6-12=-385/206, 8-12=-130/471, 8-11=-1050/600 WEBS

NOTES-(8)

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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=227, 11=194.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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

August 5,2020

MARNING - 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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty ROBERTS Ply T20939648 2433436 T13 Hip 1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:33:08 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:9D8?TpDeBomegp9nvbeUe7zkFz6-D2m?KKT_45i5h6DF1i7U9jqAJAF2?dVjx?qF0Fyqt49 13-0-0 17-4-8 5-11-13 4-4-8 Scale: 1/4"=1" 4x8 = 4x6 = 6.00 12 3x4 = 6 3 1-11-3 0-8-15 9 11 13 12 10 3x6 2x4 || 3x8 = 2x4 || 3x8 || 3x4 13-0-0 26-0-0 28-0-0 0-1-12 2-0-0 5-11-13 Plate Offsets (X,Y)-[1:0-3-8,Edge], [4:0-5-4,0-2-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** L/d GRIP in (loc) I/defl TCLL 20.0 Plate Grip DOL 1.25 TC 0.37 Vert(LL) -0.12 9-10 >999 240 MT20 244/190

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.25

0.04

9-10

>999

n/a

Rigid ceiling directly applied.

180

n/a

Structural wood sheathing directly applied, except end verticals.

Weight: 160 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

7.0

0.0

10.0

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 1=0-3-8, 9=0-3-8 Max Horz 1=108(LC 12)

Max Uplift 1=-199(LC 12), 9=-209(LC 13) Max Grav 1=955(LC 1), 9=1106(LC 1)

Lumber DOL

Rep Stress Incr

Code FBC2017/TPI2014

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

TOP CHORD 1-3=-1503/799, 3-4=-1083/653, 4-5=-811/592, 5-6=-980/590

BOT CHORD 1-13=-671/1286, 12-13=-671/1286, 10-12=-367/906, 9-10=-302/583 WEBS

3-13=0/258, 3-12=-468/365, 4-12=-174/346, 4-10=-260/112, 6-10=-38/310,

1.25

YES

BC

WB

Matrix-AS

0.59

0.51

6-9=-1075/659

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=199, 9=209,
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.

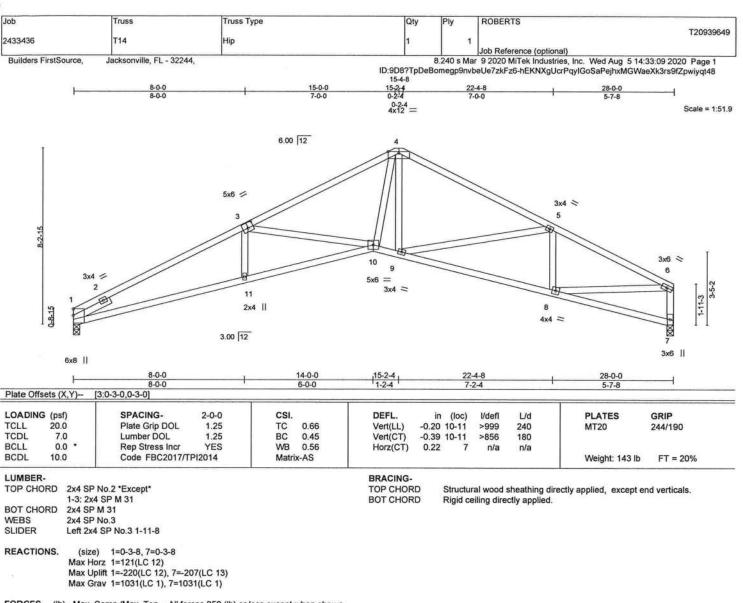


MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 5,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 (ey. 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 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 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





REACTIONS.

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

1-3=-2743/1464, 3-4=-2103/1120, 4-5=-1786/961, 5-6=-1782/949, 6-7=-993/568 TOP CHORD

BOT CHORD 1-11=-1277/2439, 10-11=-1286/2453, 9-10=-626/1563, 8-9=-807/1610

3-10=-637/501, 4-10=-563/1150, 5-8=-344/283, 6-8=-733/1480, 4-9=-48/253 WEBS

NOTES-

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

- 3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 1=220, 7=207. 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.

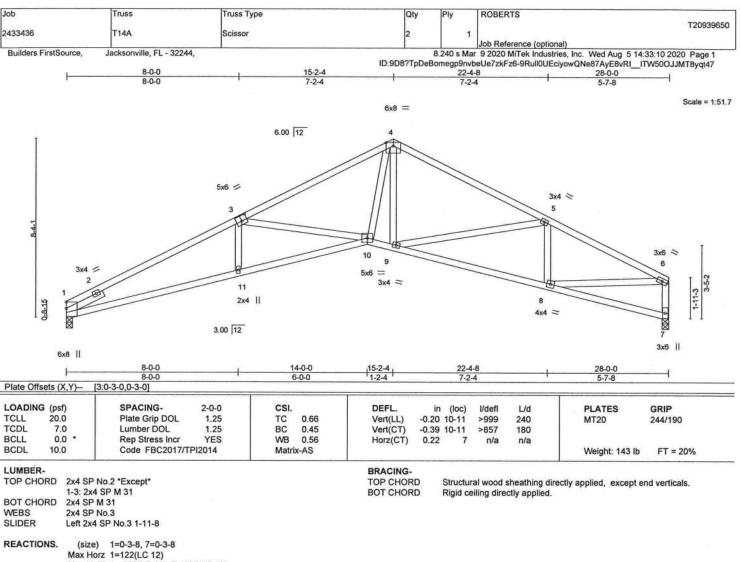


MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

August 5,2020

MARNING - 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 MTex® 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 manage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Max Uplift 1=-220(LC 12), 7=-207(LC 13) Max Grav 1=1031(LC 1), 7=1031(LC 1)

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

TOP CHORD 1-3=-2743/1464, 3-4=-2089/1113, 4-5=-1775/955, 5-6=-1782/949, 6-7=-993/568

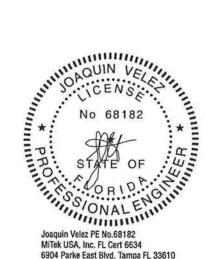
BOT CHORD 1-11=-1277/2439, 10-11=-1287/2453, 9-10=-617/1548, 8-9=-808/1610

WEBS 3-10=-650/512, 4-10=-562/1149, 4-9=-52/258, 5-8=-344/283, 6-8=-733/1480

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=220, 7=207.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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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August 5,2020

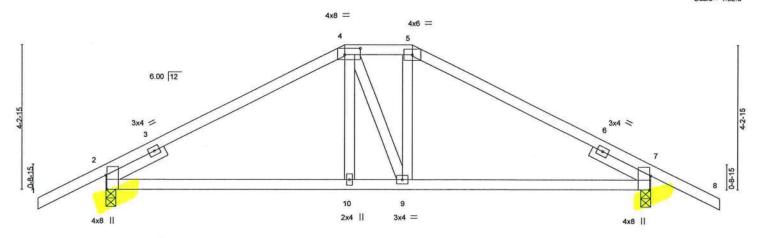
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type ROBERTS T20939651 T15 Hip Girder 2433436 1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:33:11 2020 Page 1 Builders FirstSource Jacksonville, FL - 32244, ID:9D8?TpDeBomegp9nvbeUe7zkFz6-ddS7yMVsN04fYayqiqhBmMSaCOEdC3d9dz2v?ayqt46 7-0-0 2-0-0 16-0-0 18-0-0

Scale = 1:32.6



		-	7-0-0			2-0-0				16-0-0		ł
Plate Offsets (X,Y)-		[2:0-5-0,Edge], [4:0-5-8,0		Edge]		2=0=0				7-0-0		
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.13	9-10	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	0.12	9-10	>999	180		
CLL	0.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.06	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	PI2014	Matri	x-MS						Weight: 80 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 7=0-3-8

Max Horz 2=-95(LC 32)

Max Uplift 2=-856(LC 8), 7=-856(LC 9) Max Grav 2=1144(LC 1), 7=1144(LC 1)

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

TOP CHORD 2-4=-1598/1364, 4-5=-1370/1268, 5-7=-1599/1365

BOT CHORD 2-10=-1161/1357, 9-10=-1174/1369, 7-9=-1129/1359

WEBS 4-10=-343/418, 5-9=-353/421

NOTES-(9)

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=856, 7=856.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 236 lb down and 307 lb up at 7-0-0, and 236 lb down and 307 lb up at 9-0-0 on top chord, and 276 lb down and 364 lb up at 7-0-0, and 276 lb down and 364 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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.

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-5=-54, 5-8=-54, 11-15=-20

Concentrated Loads (lb) Vert: 4=-189(F) 5=-189(F) 10=-255(F) 9=-255(F) No 68182

P. SATE OF

OR ID.

ONALE PROTESTONAL 19.68

Structural wood sheathing directly applied or 3-4-0 oc purlins.

Rigid ceiling directly applied or 4-11-1 oc bracing.

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

August 5,2020

MARNING - 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 uccliapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job ROBERTS Truss Truss Type Qty Ply T20939652 T16 2433436 Common Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 5 14:33:13 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:9D8?TpDeBomegp9nvbeUe7zkFz6-Z0ZuN2X6vdKNnt5DpFjfsnX_sBzWgyeS4HX03Tyqt44 16-0-0 18-0-0 2-0-0 Scale = 1:32.8 5x6 6.00 12 3x4 ≥ 3x4 = 8 3x8 || 2x4 || 3x8 || 16-0-0 8-0-0 Plate Offsets (X,Y)-[2:0-3-0,0-0-2], [6:0-4-8,0-0-2] LOADING (psf) SPACING-2-0-0 DEFL **PLATES** GRIP (loc) l/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.51 Vert(LL) 0.16 8-15 >999 240 MT20 244/190 TCDL 7.0 1.25 BC 0.57 Vert(CT) 0.14 Lumber DOL 8-15 >999 180 Rep Stress Incr BCLL 0.0 * WB 0.19 YES Horz(CT) 0.03 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-AS Weight: 69 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied

LUMBER-

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

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

REACTIONS.

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

Max Horz 2=68(LC 11)

Max Uplift 2=-247(LC 9), 6=-247(LC 8) Max Grav 2=700(LC 1), 6=700(LC 1)

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

TOP CHORD 2-4=-654/988, 4-6=-654/989

BOT CHORD 2-8=-711/585, 6-8=-711/585

WEBS 4-8=-499/330

NOTES-(7)

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=247. 6=247.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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.



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

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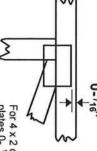


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

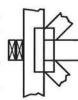
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TPI1:

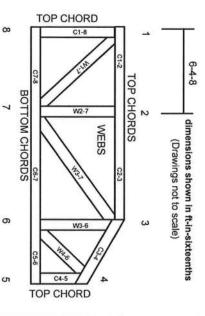
National Design Specification for Metal Plate Connected Wood Truss Construction

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

DSB-89: BCSI:

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

Numbering System



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

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

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

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

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General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

ω

Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4

- Cut members to bear tightly against each other
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. oint and embed fully. Knots and wane at joint

6 5

Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

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ENGINEERED BY
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A MiTek Affiliate
A Initian Allillate

Nailing Pattern								
T-Brace size	Nail Size	Nail Spacing						
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.						

Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

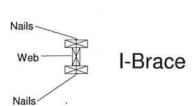
Nails

	100000000000000000000000000000000000000	e Size -Ply Truss				
	Specified Continuous Rows of Lateral Bracing					
Web Size	1	2				
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace				
2x6	2x6 T-Brace	2x6 I-Brace				
2x8	2x8 T-Brace	2x8 I-Brace				

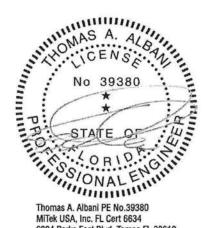
WEB The state of t	SPACING T-BRACE
Nails Section Detail	
T-Brace	

	Brace Size for Two-Ply Truss				
	Specified Rows of La	Continuous Iteral Bracing			
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace	2x8 I-Brace			

T-Brace / I-Brace must be same species and grade (or better) as web member.



Web

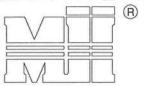


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STANDARD REPAIR TO REMOVE END **VERTICAL (RIBBON NOTCH VERTICAL)**

MII-REP05

MiTek USA, Inc. Page 1 of 1

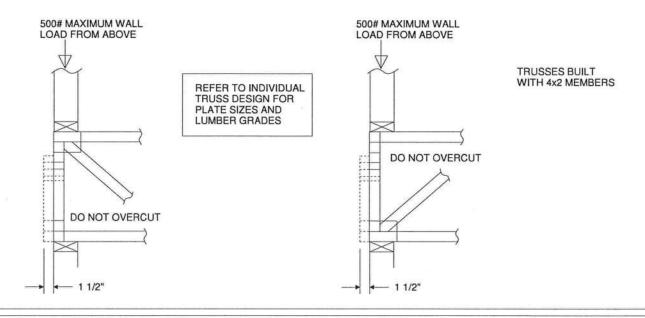


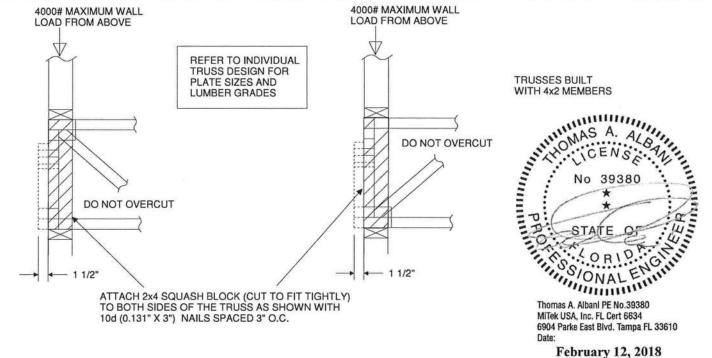
MiTek USA, Inc.

ENGINEERED BY (40

- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
- 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ORIENTATION ONLY.
 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail

MII-GE130-SP

TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.

HORIZONTAL BRACE

(SEE SECTION A-A)

(5) - 10d NAILS. (4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD

(2) - 10d

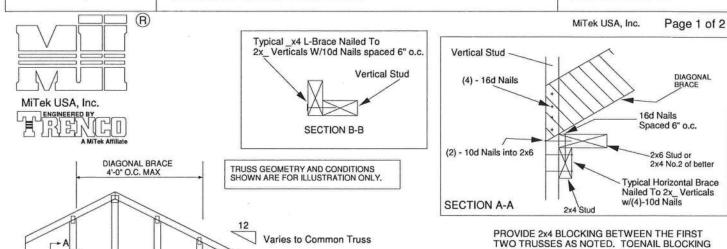
NAILS

SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3"

Max.



SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

24" Max

Diag. Brace

at 1/3 points

End Wall

if needed

3x4 =

* - Diagonal Bracing Refer to Section A-A

- L-Bracing Refer to Section R-R

NOTE

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.

CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIBIALSC.

11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade			Maximu	ngth	*	
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH **DURATION OF LOAD INCREASE: 1.60**

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

Standard Gable End Detail

SEE INDIVIDUAL MITEK ENGINEERING

24" Max

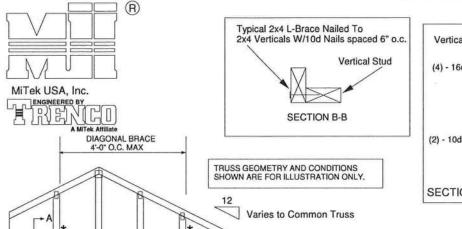
DRAWINGS FOR DESIGN CRITERIA

3x4 =

MII-GE170-D-SP



Page 1 of 2



**

B

Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails **SECTION A-A** 2X4 SP OR SPF No. 2

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS

- * Diagonal Bracing Refer to Section A-A
- ** L-Bracing Refer to Section B-B

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.
- ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3
- OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4-0" O.C.

 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A
- 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR
- TYPE TRUSSES 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE
- 06-01-13 BY SPIB/ALSC.
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade			ud Length		
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 170 MPH DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.

1'-0" - 10d Max. NAILS (2) - 10d NAILS Trusses @ 24" o.c. Diag. Brace at 1/3 points 2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH if needed (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

End Wall

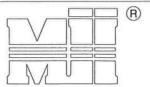


HORIZONTAL BRACE

(SEE SECTION A-A)

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MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc. ENGINEERED BY

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ASCE 7-10 DURATION OF LOAD INCREASE: 1.60**

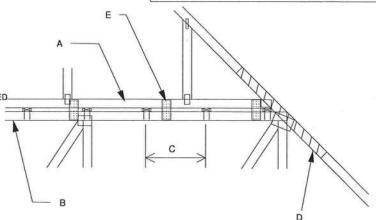
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

- PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) (0.131" X 3.5") TOE-NAILED.
- BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- 2 X __ X 4".0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED.
ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
DIRECTIONS AND: DIRECTIONS AND: 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

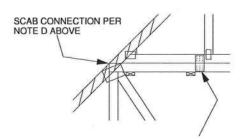
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

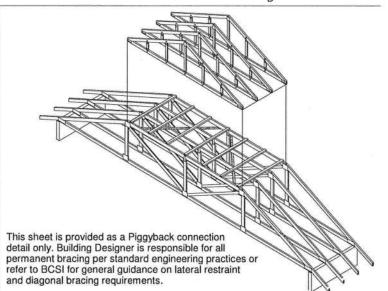


WHEN NO GAP RETWEEN PIGGYRACK AND BASE TRUSS EXISTS:

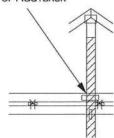
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



VERTICAL WEB TO EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL

AS SHOWN IN DETAIL.

ATTACH 2 x ___ x 4*-0* SCAB TO EACH FACE OF
TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131* X 3*) NAILS
SPACED 4* O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH
VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)

(WINNIMOM 2544)
THIS CONNECTION IS ONLY VALID FOR A MAXIMUM
CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS. FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,

NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
CONCENTRATED LOAD MUST BE APPLIED TO BOTH
THE PIGGYBACK AND THE BASE TRUSS DESIGN.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

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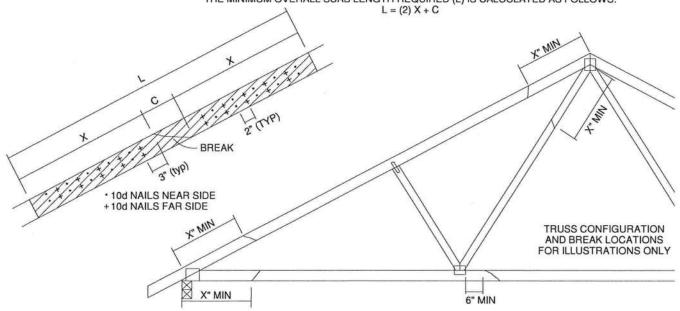


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *				MAX	имим го	RCE (lbs)	15% LOA	D DURAT	ION	
		X INCHES	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

- 1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES
 NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS
 SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED
 REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED. 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR
- AND HELD IN PLACE DURING APPLICATION OF REPAIR.
 THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID
- UNUSUAL SPLITTING OF THE WOOD.
- UNUSUAL SPLITTING OF THE WOOD.
 WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
 THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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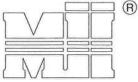
January 19, 2018

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

MiTek USA, Inc.

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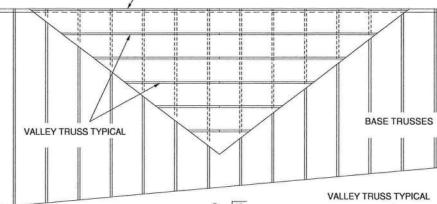


MiTek USA, Inc. ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

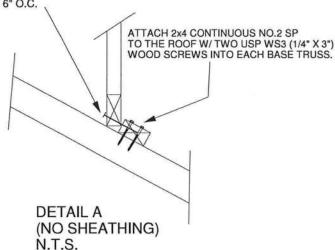
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 6. NAILING DONE PER NDS 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

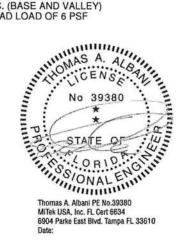


GABLE END, COMMON TRUSS OR GIRDER TRUSS P 12 SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING **EXPOSURE C** WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES



January 19, 2018

MiTek USA, Inc.

N.T.S.

ENGINEERED B

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1. NAIL SIZE 16d (0.131" X 3.5")

 INSTALL VALLÈY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A

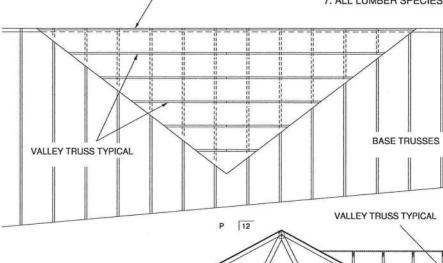
 BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.

 BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.

5. NAILING DONE PER NDS - 01

6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

7. ALL LUMBER SPECIES TO BE SP.



SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS OR GIRDER TRUSS

> GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS
W/ ONE ROW OF 16d
NAILS 6" O.C.

ATTACH 2x4 CONTINUOUS NO.2 SP
TO THE ROOF W/ TWO 16d NAILS
INTO EACH BASE TRUSS.

DETAIL A
(MAXIMUM 1" SHEATHING)

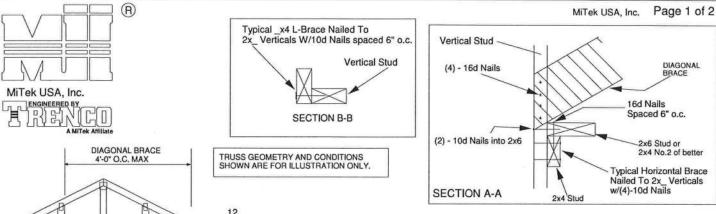
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH
WIND DESIGN PER ASCE 7-10 150 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12
CATEGORY II BUILDING
EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF
ON THE TRUSSES



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

Standard Gable End Detail

MII-GE146-001



Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =- Diagonal Bracing - L-Bracing Refer Refer to Section A-A to Section B-B 24" Max

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

Roof Sheathing

NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.

2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY, CONSULT BLDG,

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES:

2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

TYPE TRUSSES.

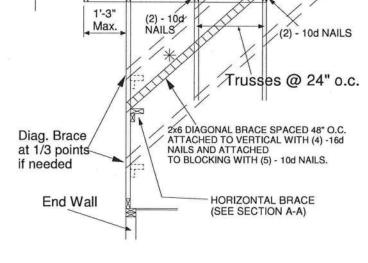
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAI BRACES AT 1/3 POINTS		
Species and Grade		Maximum Stud Length					
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10		
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11		
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7		

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.





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January 19, 2018

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

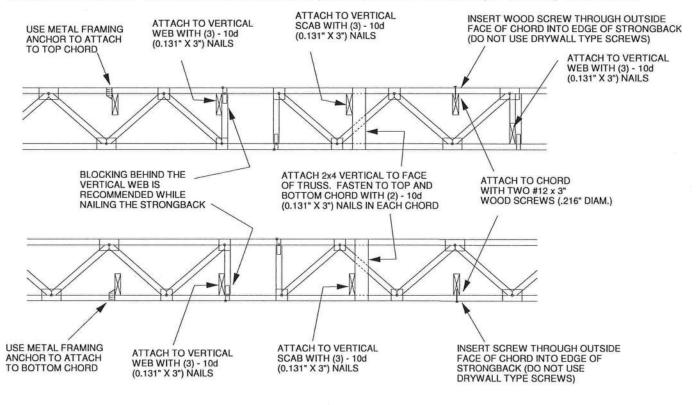
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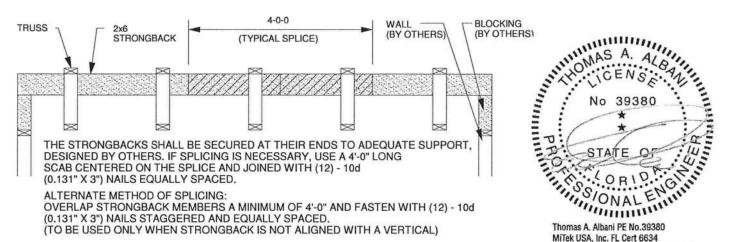


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.





February 12, 2018

Date

6904 Parke East Blvd. Tampa FL 33610