



MiTek USA, Inc.
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: B2201039
Krech 13248 (14925 Clifford Drive) (Peyton, Co.)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Sterling Lumber & Investment.

Pages or sheets covered by this seal: R72942338 thru R72942340

My license renewal date for the state of Colorado is October 31, 2023.



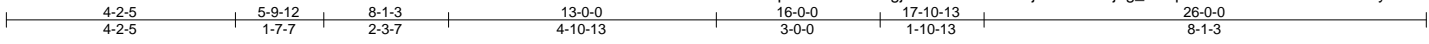
October 5, 2022

Hernandez, Marcos

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.

Job B2201039	Truss BACK	Truss Type GABLE	Qty 1	Ply 1	Krech 13248 (14925 Clifford Drive) (Peyton, Co.) R72942338
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Sterling Component Systems Company, Westminster, CO - 80031, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 5 11:55:15 2022 Page 1
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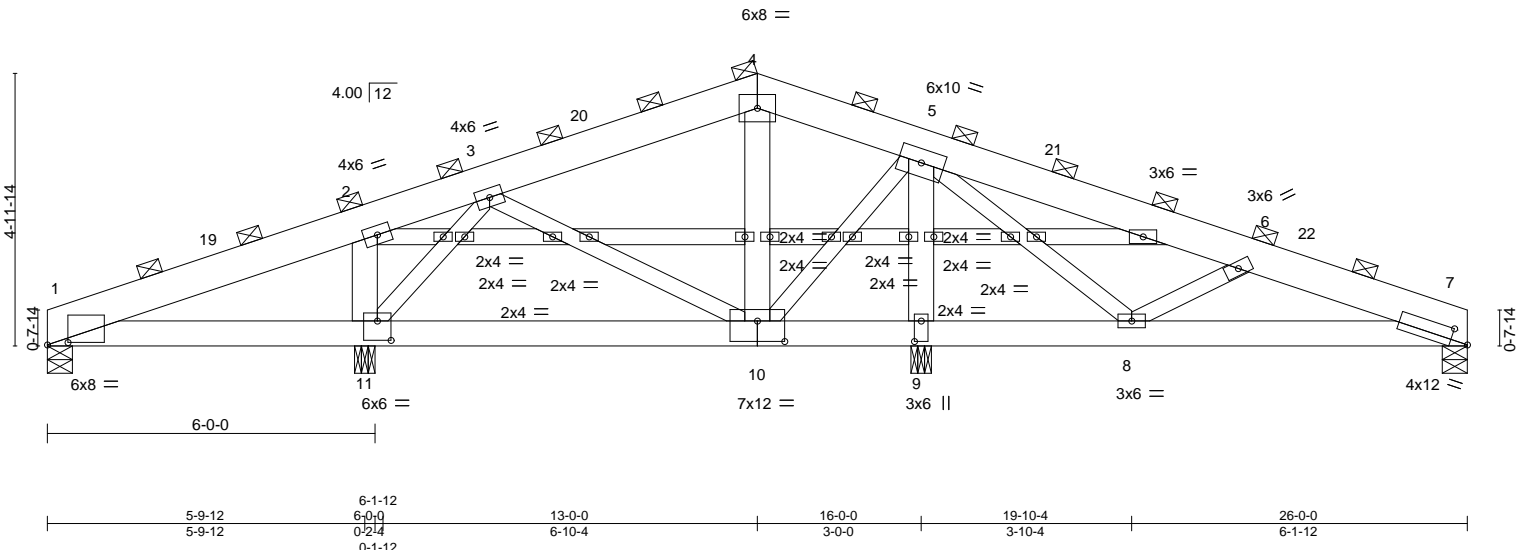


Plate Offsets (X, Y)-- [1:0-4-8,0-0-9], [7:0-3-13,0-2-8], [9:0-4-8,0-1-8], [10:0-6-0,0-4-8], [11:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15	TC 0.25	in (loc) l/defl L/d	MT20	197/144
TCDL 5.0	Lumber DOL 1.15	BC 0.24	Vert(LL) -0.04 10-11 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.25	Vert(CT) -0.06 10-11 >999 180		
BCDL 5.0	Code IBC2015/TPI2014	Matrix-R	Horz(CT) 0.01 7 n/a n/a		
				Weight: 176 lb	FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x8 DF 1950F 1.7E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x6 SPF 1650F 1.5E	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SPF 1650F 1.5E *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 4-10,5-9,2-11: 2x6 SPF 1650F 1.5E	
OTHERS 2x4 SPF 1650F 1.5E	

REACTIONS. All bearings 0-5-8 except (jt=length) 11=0-4-8, 9=0-4-8.
 (lb) - Max Horz 1=178(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=127(LC 8), 7=278(LC 9), 11=621(LC 12), 9=776(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 1=486(LC 18), 7=932(LC 19), 11=2205(LC 18), 9=2829(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=160/418, 2-3=42/252, 3-4=693/382, 4-5=507/446, 5-6=597/315, 6-7=1616/759
 BOT CHORD 10-11=114/614, 9-10=472/389, 8-9=472/389, 7-8=589/1440
 WEBS 4-10=554/304, 5-10=341/1002, 5-8=433/1141, 6-8=1242/775, 3-11=1158/370, 5-9=2659/1204, 2-11=1060/639

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 10-0-0, Exterior(2) 10-0-0 to 16-0-0, Interior(1) 16-0-0 to 22-9-4, Exterior(2) 22-9-4 to 25-9-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.20
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
 - 6) Horizontal 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 127 lb uplift at joint 1, 278 lb uplift at joint 7, 621 lb uplift at joint 11 and 776 lb uplift at joint 9.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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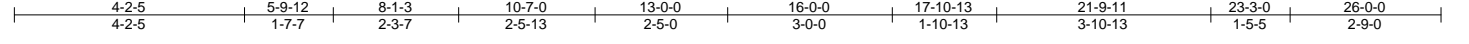
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek USA, Inc.
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 Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Krech 13248 (14925 Clifford Drive) (Peyton, Co.)	R72942339
B2201039	FRONT	GABLE	1	1	Job Reference (optional)	

Sterling Component Systems Company, Westminster, CO - 80031, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 5 11:55:16 2022 Page 1

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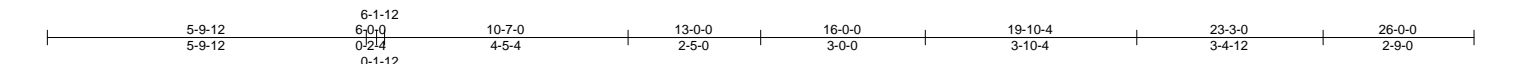
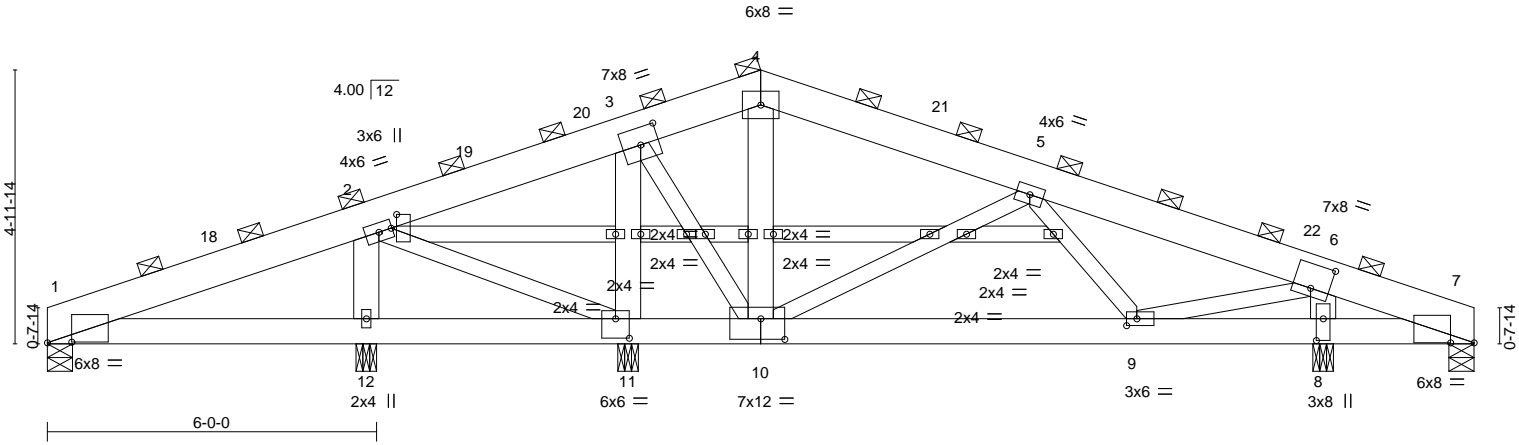


Plate Offsets (X, Y)-- [1:0-5-5,0-0-2], [2:0-3-0,0-1-3], [3:0-4-0,0-3-12], [6:0-4-0,0-5-4], [7:0-5-2,0-0-0], [8:0-4-12,0-1-8], [9:0-2-4,0-1-8], [10:0-5-4,0-4-8], [11:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 6-0-0	TC 0.22	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.27	Vert(LL) -0.04 9-10 >999 240		
TCDL 5.0	Rep Stress Incr NO	WB 0.45	Vert(CT) -0.07 9-10 >999 180		
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-R	Horz(CT) 0.01 8 n/a n/a		
BCDL 5.0				Weight: 176 lb	FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x8 DF 1950F 1.7E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x6 SPF 1650F 1.5E	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SPF 1650F 1.5E *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
4-10,2-12,6-8,3-11: 2x6 SPF 1650F 1.5E	10-0-0 oc bracing: 9-10.
OTHERS 2x4 SPF 1650F 1.5E	

REACTIONS. All bearings 0-4-8 except (jt=length) 1=0-5-8, 7=0-5-8.
 (lb) - Max Horz 11=178(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-165(LC 8), 12=-399(LC 8), 11=-524(LC 8), 8=-651(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 7 except 1=552(LC 18), 12=1415(LC 18), 11=2228(LC 1), 8=2173(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-190/251, 2-3=-123/387, 3-4=-600/581, 4-5=-809/533, 5-6=-1672/644
 BOT CHORD 10-11=-288/302, 9-10=-477/1641
 WEBS 4-10=-512/236, 5-10=-1248/582, 6-9=-422/1537, 3-10=-496/1528, 2-12=-1207/610, 6-8=-1998/934, 5-9=-403/317, 3-11=-2032/933

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 10-0-0, Exterior(2) 10-0-0 to 16-0-0, Interior(1) 16-0-0 to 22-9-4, Exterior(2) 22-9-4 to 25-9-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.20
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
 - 6) Horizontal 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 165 lb uplift at joint 1, 399 lb uplift at joint 12, 524 lb uplift at joint 11 and 651 lb uplift at joint 8.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

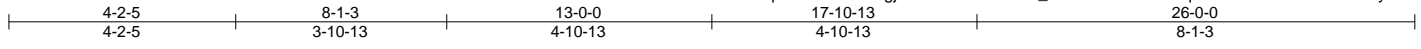


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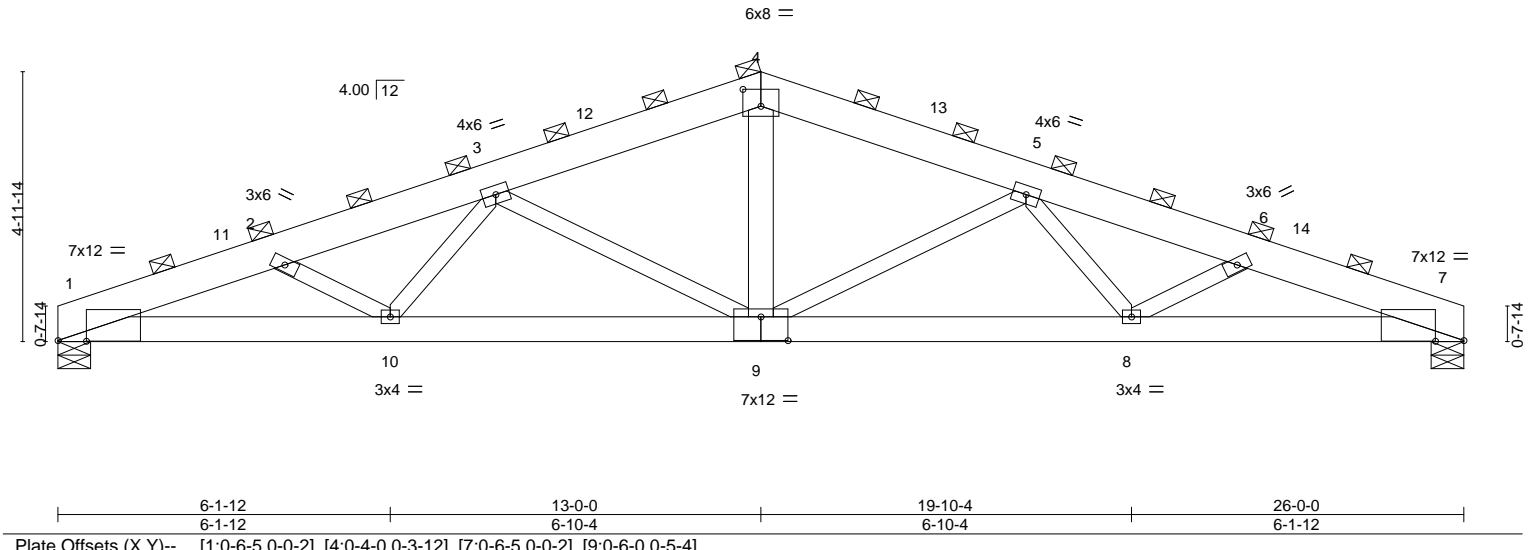
Job B2201039	Truss K	Truss Type FINK	Qty 4	Ply 1	Krech 13248 (14925 Clifford Drive) (Peyton, Co.) R72942340
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Sterling Component Systems Company, Westminster, CO - 80031, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 5 11:55:18 2022 Page 1

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Scale = 1:42.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	6-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2015/TPI2014	TC 0.34 BC 0.80 WB 0.67 Matrix-R	in (loc) l/defl L/d Vert(LL) -0.26 9-10 >999 240 Vert(CT) -0.36 9-10 >839 180 Horz(CT) 0.15 7 n/a n/a	MT20	197/144
TCDL 5.0				Weight: 156 lb	FT = 15%
BCLL 0.0 *					
BCDL 5.0					

LUMBER-	BRACING-
TOP CHORD 2x8 DF 1950F 1.7E	TOP CHORD 2-0-0 oc purlins (3-11-4 max.)
BOT CHORD 2x6 SPF 1650F 1.5E	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SPF 1650F 1.5E *Except*	BOT CHORD Rigid ceiling directly applied or 5-5-3 oc bracing.
4-9: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 1=0-7-4, 7=0-7-4
 Max Horz 1=-178(LC 17)
 Max Uplift 1=-827(LC 8), 7=-827(LC 9)
 Max Grav 1=3048(LC 1), 7=3048(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6890/3073, 2-3=-6454/2912, 3-4=-4906/2392, 4-5=-4906/2392, 5-6=-6454/2912, 6-7=-6890/3073
 BOT CHORD 1-10=-2709/6270, 9-10=-2426/5848, 8-9=-2426/5848, 7-8=-2709/6270
 WEBS 4-9=-666/1785, 5-9=-1845/772, 5-8=-42/578, 6-8=-260/305, 3-9=-1845/772, 3-10=-42/578, 2-10=-260/305

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-10 to 3-3-10, Interior(1) 3-3-10 to 10-0-0, Exterior(2) 10-0-0 to 16-0-0, Interior(1) 16-0-0 to 22-8-6, Exterior(2) 22-8-6 to 25-8-6 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.20
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 827 lb uplift at joint 1 and 827 lb uplift at joint 7.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



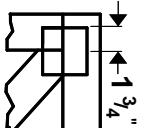
October 5, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

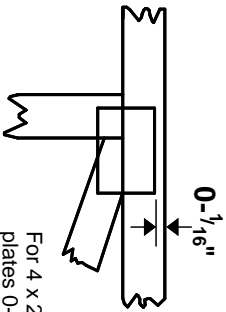
MiTek USA, Inc.
 400 Sunrise Avenue, Suite 270
 Roseville, CA 95661

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



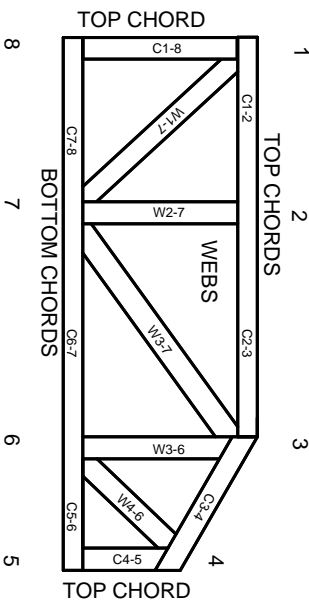
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020