MiTek®

MiTek, Inc.
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571

Re: Q2400028-A
Jones 13921

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: R82490816 thru R82490818

My license renewal date for the state of Colorado is October 31, 2025.

May 21,2024

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	Truss	Truss Type	Qty	Ply	Jones 13921
Q2400028-A	BACK	GABLE	1	1	R82490816
					Job Reference (optional)

Sterling Component Systems Company, Westminster, CO - 80031, 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 11:38:06 2024 Page 1
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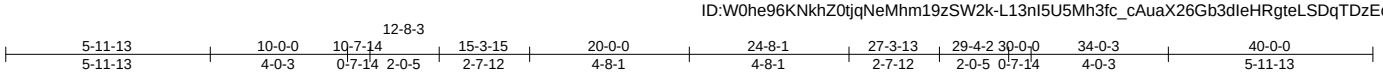

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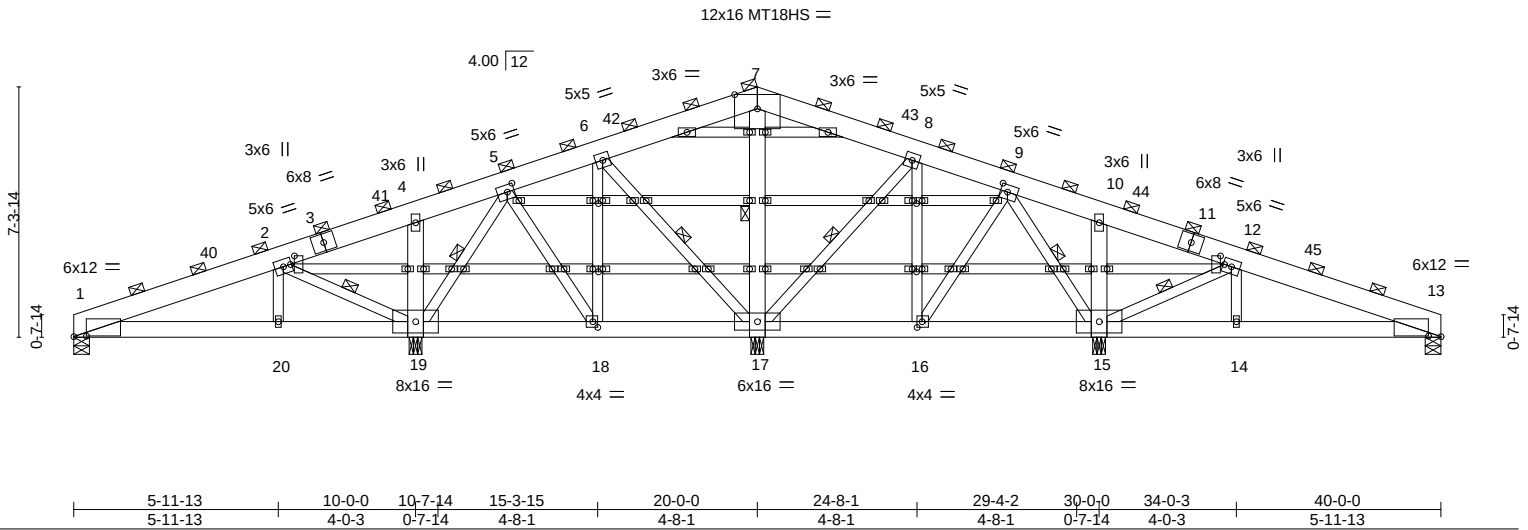

Plate Offsets (X,Y)-- [1:0-4-6,0-0-3], [2:0-3-0,0-1-6], [5:0-2-8,0-2-8], [9:0-2-8,0-2-8], [12:0-3-0,0-1-6], [13:0-4-6,0-0-3], [16:0-1-12,0-2-0], [18:0-1-12,0-2-0], [24:0-1-8,0-1-0], [28:0-1-8,0-1-0], [32:0-1-8,0-1-0], [36:0-1-8,0-1-0]

LOADING (psf)		**SPACING-**	7-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	80.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.09	1-20	>999	360	MT20	174/144
(Roof Snow=80.0)		Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.11	1-20	>999	240	MT18HS	174/144
TCDL	5.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-R		Wind(LL)	0.01	1-20	>999	240	Weight: 322 lb	FT = 15%
BCDL	7.0											

LUMBER-

TOP CHORD	2.0 RigidLam DF LVL 1-1/2 x 7-1/4
BOT CHORD	2x6 SPF 1650F 1.5E
WEBS	2x4 SPF 1650F 1.5E *Except* 7-17,4-19,10-15: 2x6 SPF 1650F 1.5E
OTHERS	2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-17, 2-19, 6-17, 8-17, 12-15, 5-19, 9-15

REACTIONS. All bearings 0-4-8 except (jt=length) 1=0-5-8, 13=0-5-8.
(lb) - Max Horz 1=191(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 13=-103(LC 15), 19=-329(LC 14), 17=-146(LC 10), 15=-318(LC 15)
Max Grav All reactions 250 lb or less at joint(s) except 1=2360(LC 20), 13=2360(LC 21), 19=8648(LC 20), 17=6838(LC 1), 15=8648(LC 21)

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

TOP CHORD	1-2=-2530/291, 2-4=-110/2394, 4-5=-15/2124, 5-6=-1080/612, 6-7=-4/1787, 7-8=-4/1787, 8-9=-1080/612, 9-10=0/2124, 10-12=-53/2394, 12-13=-2530/302
BOT CHORD	1-20=-133/1983, 19-20=-133/1983, 16-17=-491/879, 15-16=-534/255, 18-19=-534/255, 17-18=-491/879, 14-15=-126/1983, 13-14=-126/1983
WEBS	2-20=0/565, 6-18=-893/268, 7-17=-3840/325, 8-16=-893/268, 12-14=0/565, 2-19=-4360/581, 6-17=-2756/276, 8-17=-2756/275, 12-15=-4360/581, 4-19=-2960/322, 10-15=-2960/323, 5-18=0/1199, 5-19=-3932/262, 9-15=-3932/262, 9-16=0/1199

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=4.2psf; h=25ft; Ke=0.77; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-2-12, Interior(1) 4-2-12 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 39-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 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 7-16; Pf=80.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; 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) All plates are MT20 plates unless otherwise indicated.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Horizontal gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.

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NOTES-

11) Bearing at joint(s) 19, 17, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide metal plate or equivalent at bearing(s) 19, 15 to support reaction shown.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 13=103, 19=329, 17=146, 15=318.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Jones 13921
Q2400028-A	FRONT	GABLE	1	1	R82490817
					Job Reference (optional)

Sterling Component Systems Company, Westminster, CO - 80031, 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 11:38:08 2024 Page 1
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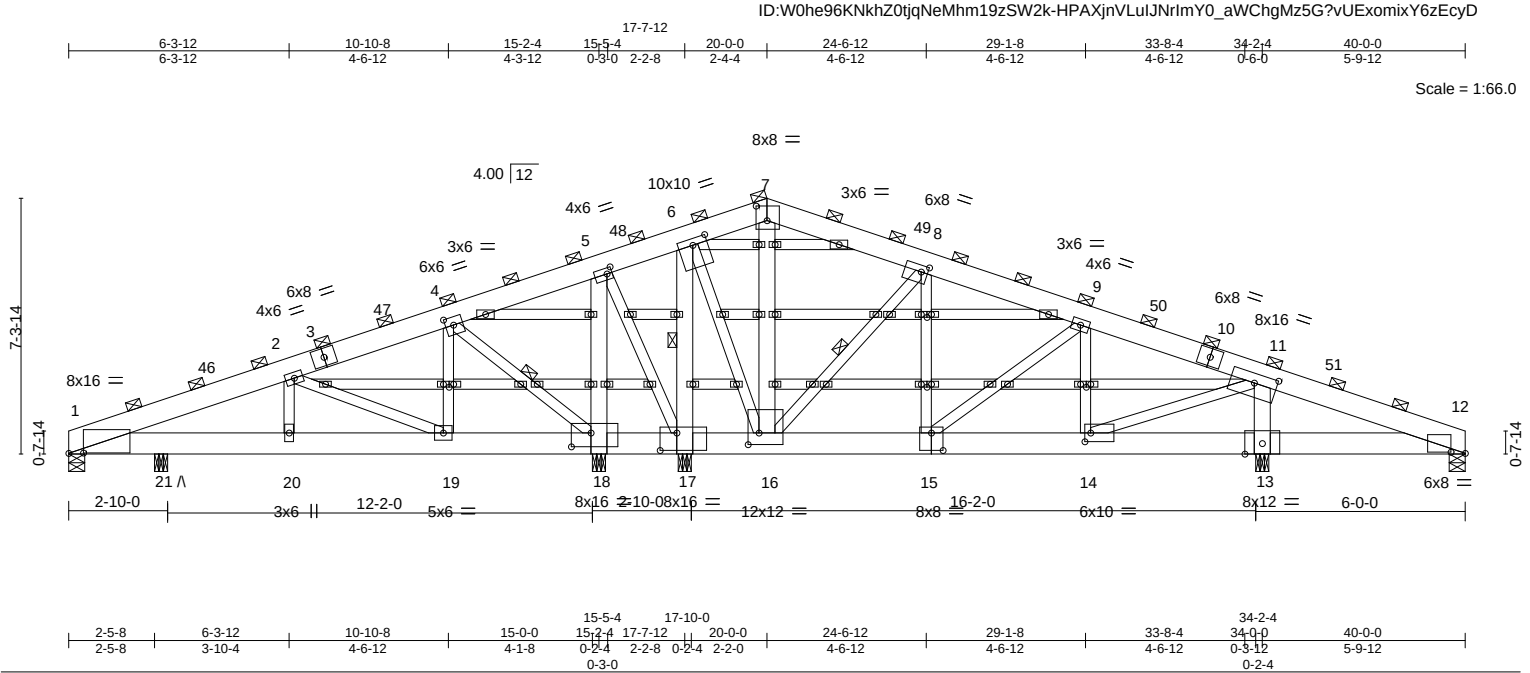

Plate Offsets (X,Y)-- [1:0-5-1,0-0-2], [4:0-2-12,0-2-12], [5:0-1-12,0-2-0], [6:0-5-0,0-2-4], [7:0-3-12,0-5-0], [8:0-2-4,0-2-4], [11:0-7-12,0-3-4], [12:0-4-15,0-0-6], [14:0-2-0,0-3-0], [15:0-4-0,0-6-0], [16:0-3-12,0-4-0], [17:0-5-12,0-6-0], [18:0-6-12,0-4-12], [22:0-1-8,0-1-0], [31:0-1-8,0-1-0], [33:0-1-8,0-1-0], [42:0-1-8,0-1-0]

LOADING (psf)		SPACING-	7-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	80.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.16	14-15	>999	360	MT20	174/144
(Roof Snow=80.0)		Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.18	14-15	>999	240		
TCDL	5.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.04	13	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-R		Wind(LL)	0.02	19-20	>999	240	Weight: 368 lb	FT = 15%
BCDL	7.0											

LUMBER-

TOP CHORD	2.0 RigidLam DF LVL 1-1/2 x 7-1/4
BOT CHORD	2x8 DF 1950F 1.7E *Except*
	1-18: 2.0 RigidLam DF LVL 1-1/2 x 7-1/4
WEBS	2x4 SPF 1650F 1.5E *Except*
	7-16,5-18,6-17,11-13: 2x6 SPF 1650F 1.5E
	11-14,6-16: 2x4 SPF 2100F 1.8E
OTHERS	2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD	2-0-0 oc purlins (4-2-13 max.)
	(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 8-16, 4-18, 6-17

REACTIONS. All bearings 0-4-8 except (jt=length) 1=0-5-8, 12=0-5-8.
(lb) - Max Horz 1=-189(LC 19)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 1=-130(LC 10), 18=-296(LC 14), 17=-212(LC 11), 13=-288(LC 15)
Max Grav All reactions 250 lb or less at joint(s) except 1=1935(LC 20), 12=1172(LC 21), 21=2800(LC 20), 18=7491(LC 20), 17=7482(LC 21), 13=8676(LC 21)

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

TOP CHORD	1-2=-5525/598, 2-4=-2714/236, 4-5=-85/2778, 5-6=0/2322, 6-7=-886/1113, 7-8=-1549/997, 8-9=-5320/437, 9-11=-6314/436, 11-12=-236/1036
BOT CHORD	1-21=-413/4571, 20-21=-413/4571, 19-20=-413/4571, 18-19=-10/2158, 12-13=-462/130, 17-18=-2151/553, 16-17=-2094/568, 15-16=0/4515, 14-15=-85/5433, 13-14=-462/130
WEBS	2-20=-939/289, 4-19=-115/1627, 7-16=-2064/207, 8-15=0/1136, 9-14=-2309/243, 2-19=-2813/605, 8-16=-5586/518, 9-15=-1177/190, 11-14=-224/6065, 5-18=-3608/352, 4-18=-5518/549, 6-17=-6334/594, 6-16=-448/5586, 11-13=-7872/746

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=4.2psf; h=25ft; Ke=0.77; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-2-12, Interior(1) 4-2-12 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 39-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 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 7-16; Pf=80.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; 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) All plates are 2x4 MT20 unless otherwise indicated.
7) Horizontal gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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May 21,2024

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NOTES-

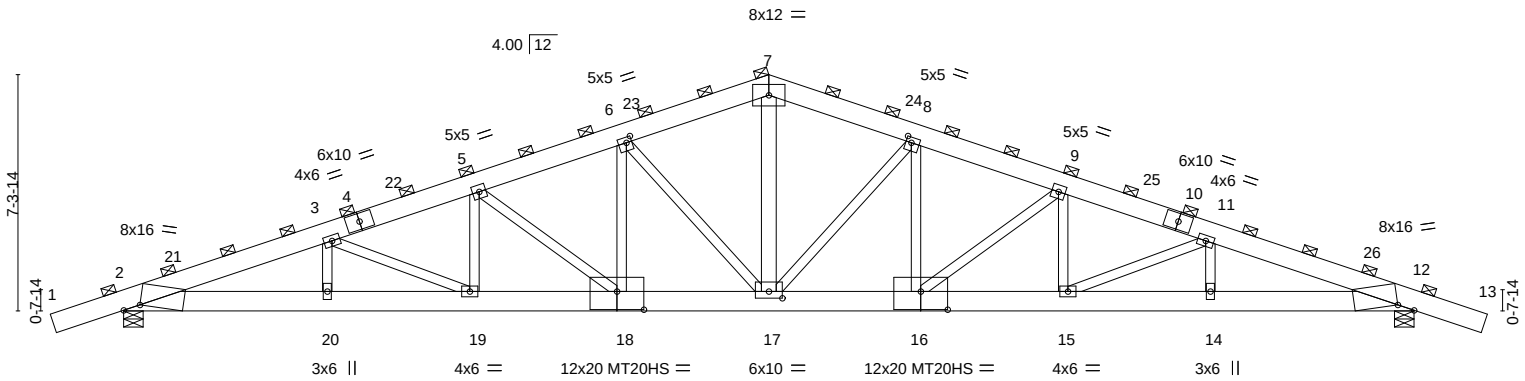
10) Bearing at joint(s) 18, 17, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide metal plate or equivalent at bearing(s) 13 to support reaction shown.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 1=130, 18=296, 17=212, 13=288.
13) "/\" indicates Released bearing: allow for upward movement at joint(s) 21.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Jones 13921
Q2400028-A	J	COMMON	4	3	R82490818
					Job Reference (optional)

Sterling Component Systems Company, Westminster, CO - 80031, 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 11:38:08 2024 Page 1
ID:W0he96KNkhZ0tjqNeMhm19zSW2k-HPAXjnVLuIJNrImY0_aWChgM45EuvaIxomixY6zEcyD

-2-1-0	6-3-12	10-10-8	15-5-4	20-0-0	24-6-12	29-1-8	33-8-4	40-0-0	42-1-0
2-1-0	6-3-12	4-6-12	4-6-12	4-6-12	4-6-12	4-6-12	4-6-12	6-3-12	2-1-0

Scale = 1:71.4



6-3-12	10-10-8	15-5-4	20-0-0	24-6-12	29-1-8	33-8-4	40-0-0
6-3-12	4-6-12	4-6-12	4-6-12	4-6-12	4-6-12	4-6-12	6-3-12

Plate Offsets (X,Y)-- [2:0-5-11,Edge], [6:0-2-0,0-2-0], [8:0-2-0,0-2-0], [12:0-5-11,Edge], [16:0-10-0,0-6-12], [17:0-5-0,0-2-8], [18:0-10-0,0-6-12]

LOADING (psf)		SPACING-	10-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	80.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.79	17-18	>598	360	MT20	174/144
(Roof Snow=80.0)		Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.91	17-18	>518	240	MT20HS	148/108
TCDL	5.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.28	12	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-R		Wind(LL)	0.11	16	>999	240	Weight: 948 lb	FT = 15%
BCDL	7.0											

LUMBER-

TOP CHORD 2.0 RigidLam DF LVL 1-1/2 x 7-1/4 *Except* 4-7,7-10: 2x8 DF 1950F 1.7E
BOT CHORD 2.0 RigidLam DF LVL 1-1/2 x 7-1/4 *Except* 16-18: 2x8 DF 1950F 1.7E
WEBS 2x4 SPF 1650F 1.5E *Except* 7-17: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (4-8-7 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-7-4, 12=0-7-4
Max Horz 2=-297(LC 15)
Max Uplift 2=-916(LC 10), 12=-916(LC 11)
Max Grav 2=20411(LC 21), 12=20411(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1096, 2-3=-44371/3744, 3-5=-40573/3643, 5-6=-34378/3281, 6-7=-28675/2934, 7-8=-28675/2934, 8-9=-34378/3280, 9-11=-40573/3642, 11-12=-44371/3741, 12-13=0/1096
BOT CHORD 2-20=-3137/40833, 19-20=-3137/40833, 18-19=-2825/38093, 17-18=-2267/31988, 16-17=-2349/31988, 15-16=-2923/38093, 14-15=-3232/40833, 12-14=-3232/40833
WEBS 3-20=-638/717, 5-19=-20/2232, 6-18=-223/5582, 7-17=-1111/12936, 8-16=-223/5582, 9-15=-20/2232, 11-14=-638/717, 3-19=-3027/1140, 5-18=-9197/736, 6-17=-11334/886, 8-17=-11334/886, 9-16=-9197/736, 11-15=-3027/1140

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 1 1/2x7 1/4 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 1 1/2x7 1/4 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=4.2psf; h=25ft; Ke=0.77; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -2-2-2 to 1-9-14, Interior(1) 1-9-14 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 42-2-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=80.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.20
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 15.1 psf or 2.00 times flat roof load of 80.0 psf on overhangs non-concurrent with other live loads.
7) 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.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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COLORADO LICENSED
MARCOS A. HERNANDEZ
PE-46766
PROFESSIONAL ENGINEER

May 21,2024

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NOTES-

10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=916, 12=916.
12) 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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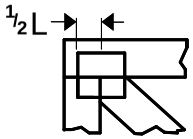
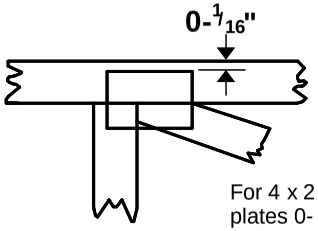
Symbols

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.

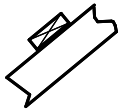
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

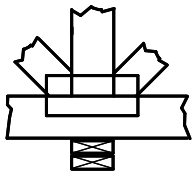
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

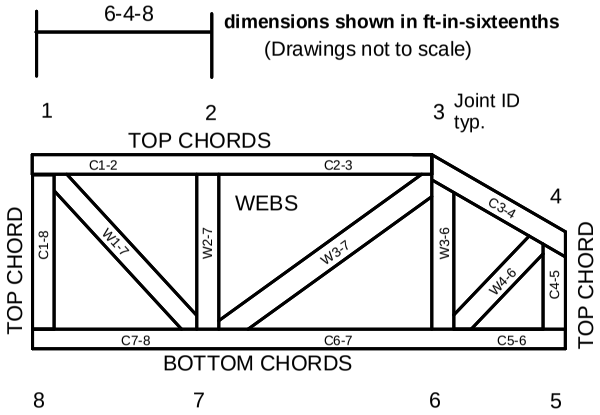


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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.

MiTek®

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.