



RE: 0820-076 - Capital Metal Supply

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

Site Information:

Customer Info: Adam Bedenbaugh Project Name: . Model: .

Lot/Block: . Subdivision: .

Address: ., .

City: Columbia County State: FI

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 8.4

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: 55.0 psf

This package includes 10 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T22149287	A1GE	12/11/20
2	T22149288	A2	12/11/20
3	T22149289	A3	12/11/20
4	T22149290	A3A	12/11/20
5	T22149291	A4GIR	12/11/20
6	T22149292	A5GIR	12/11/20
7	T22149293	F01	12/11/20
8	T22149294	F02	12/11/20
9	T22149295	M1	12/11/20
10	T22149296	M2	12/11/20

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: ORegan, Philip

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.

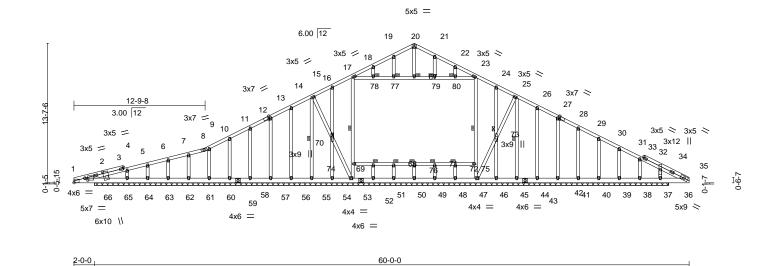


6904 Parke East Blvd. Tampa FL 33610

Job Truss Truss Type Qty Ply Capital Metal Supply T22149287 A1GE 2 0820-076 Roof Special Supported Gable 1 Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:05 2020 Page 1 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-VRPIISg0RG80taBibVZwrofw09CFxrchUm?vMjyA5nK 60-0-0 33-2-4

20-6-0

Scale = 1:112.4



T late Oil	3013 (7, 1)	[1.0 0 4,0 2 4], [1.Lagc,0	0 0], [12.0 1 0,	Lugoj, [20.	7 1 3,Eugej, j	00.0 1 10,1 3 12]						
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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	36	n/a	n/a		
BCDL	10.0	Code FBC2017/TP	12014	Matri	x-S						Weight: 500 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No 2 2x4 SP No.2 WERS OTHERS 2x4 SP No.2 **BRACING-**TOP CHORD

58-0-0

BOT CHORD WERS **JOINTS**

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

1 Row at midnt 17-53, 15-55, 23-46, 25-44 1 Brace at Jt(s): 67, 68, 69, 70, 71, 72, 73, 76, 77, 78, 79, 80

All bearings 56-0-0 REACTIONS.

(lb) -Max Horz 1=366(LC 11)

2-0-0

Max Uplift All uplift 100 lb or less at joint(s) 1, 56, 57, 58, 60, 61, 62, 63, 64, 42, 41, 40, 39, 38, 37, 36,

[1:0-3-4 0-2-4] [1:Edge 0-5-3] [12:0-1-9 Edge] [28:0-1-9 Edge] [66:0-1-13 1-9-12]

54 except 53=-127(LC 12), 66=-107(LC 12), 46=-158(LC 12)

All reactions 250 lb or less at joint(s) 1, 50, 51, 55, 56, 57, 58, 60, 61, 62, 63, 64, 65, 48, 47, Max Grav

44, 42, 41, 40, 39, 38, 37, 49, 54, 45 except 53=628(LC 17), 66=258(LC 1), 46=510(LC 18), 36=412(LC 1)

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

12-8-4

TOP CHORD $16-17 = -159/283, \ 17-18 = -460/289, \ 18-19 = -425/307, \ 19-20 = -411/356, \ 20-21 = -411/356, \ 20-2$

21-22=-425/307, 22-23=-459/289, 23-24=-94/283

53-74=-494/187, 17-74=-495/188, 46-75=-460/187, 23-75=-461/187, 34-36=-256/152, 17-78=0/393, 77-78=0/389, 67-77=0/389, 67-79=0/389, 79-80=0/389, 23-80=0/393

NOTES-

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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=60ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(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=1.60 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- * 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) 1, 56, 57, 58, 60, 61, 62, 63, 64, 42, 41, 40, 39, 38, 37, 36, 54 except (jt=lb) 53=127, 66=107, 46=158.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

December 11,2020

🗥 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/TP/1 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 Ply Capital Metal Supply T22149288 A2 10 0820-076 Attic 1 Job Reference (optional)

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:07 2020 Page 1 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-RqX3j8iGzuOk6uL4iwcOxDk61zi_Pd1_x4U0QbyA5nI

Structural wood sheathing directly applied.

1 Brace at Jt(s): 31, 42, 33, 29, 27, 25, 23, 22

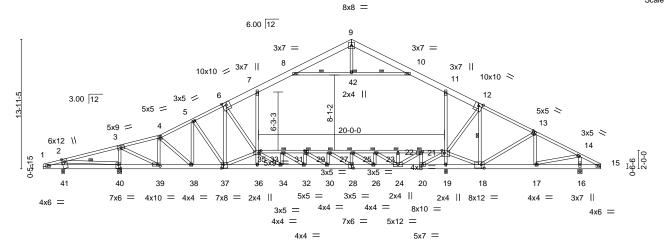
2-40, 8-42, 10-42, 12-18

Rigid ceiling directly applied.

1 Row at midpt

27-1-10 43-4-0 8-2-12 12-7-0 16-0-14 19-6-11 23-0-8 25-8-11 6-1-0 44-4 3-5-13 3-5-13 3-5-13 2-8-3 14-15 40-7-13 47-0-0 52-11-8 57-9-4 60-0-0 14-15 2-8-3 3-8-0 5-11-8 4-9-12 2-2-12 39-2-13 6-0-10

Scale = 1:124.0



2-1-1	2								47-0-0		60-0-0
2-0-0 _{II}	8-2-12	12-7-0	₁ 16-0-14	19-6-11	23-0-8	27-1-10	33-2-4	43-4-0	43-4-4	52-11-8	57-9-4 58-Q-0
2-0-0	6-1-0	4-4-4	3-5-13	3-5-13	3-5-13	4-1-2	6-0-10	10-1-1	2 0-0-4	5-11-8	4-9-12 0-2 ¹ 12
0-1-1	2								3-7-12		2-0-0

Plate Offsets (X,Y)--[13:0-2-8,0-3-0], [18:0-3-12,0-4-8], [21:0-3-4,Edge], [22:0-3-8,0-2-0], [28:0-2-8,0-4-8], [31:0-2-8,0-3-0], [35:0-2-12,0-3-0], [37:0-2-12,0-4-8], [39:0-3-8,0-3-0], [37:0-2-12,0-3-0], [,0-2-0], [40:0-3-0,0-4-12]

LOADIN	· /	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.88	Vert(LL) -0.30 31-33 >999	240	MT20 244/190
TCDL	10.0	Lumber DOL 1.25	BC 0.85	Vert(CT) -0.60 31-33 >706	180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT) 0.05 19 n/a	n/a	
BCDL	10.0	Code FBC2017/TPI2014	Matrix-AS	Attic -0.16 21-35 1497	360	Weight: 523 lb FT = 20%

BRACING-

WFBS

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

BOT CHORD

TOP CHORD 2x4 SP No.2 *Except*

6-9,9-12: 2x8 SP 2400F 2.0E **BOT CHORD** 2x6 SP No.2 *Except*

31-35,21-31: 2x4 SP No.2

WEBS 2x4 SP No.2 *Except*

18-21: 2x4 SP No.1

REACTIONS. (size) 40=0-5-8, 41=0-3-8, 19=0-3-8, 16=0-5-8

Max Horz 41=366(LC 11)

Max Uplift 40=-65(LC 12), 41=-872(LC 18), 16=-146(LC 12) Max Grav 40=3711(LC 18), 19=2525(LC 19), 16=1312(LC 1)

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

TOP CHORD 1-2=-127/675, 2-3=-664/3117, 3-4=-1056/362, 4-5=-2237/724, 5-6=-2623/841,

6-7=-2330/746, 7-8=-2014/784, 8-9=-573/267, 9-10=-605/277, 10-11=-2112/794, 11-12=-2355/724, 12-13=-1359/513, 13-14=-1425/462

1-41=-614/117, 40-41=-772/115, 39-40=-2515/638, 38-39=-230/1154, 37-38=-437/2209,

36-37=-863/3876, 34-36=-874/3891, 32-34=-848/4504, 30-32=-751/4622, 28-30=-625/4352, 26-28=-454/3670, 24-26=-238/2561, 20-24=-951/325, 19-20=-3274/639,

18-19=-3405/681, 17-18=-289/1226, 33-35=-2379/592, 31-33=-2572/498.

29-31=-2564/369, 27-29=-2057/198, 25-27=-1055/183, 23-25=-269/1040,

22-23=-269/1040, 21-22=-581/3036

WEBS 2-41=0/603, 2-40=-2387/588, 3-40=-3168/920, 3-39=-949/4031, 4-39=-1928/551,

4-38=-283/1445, 5-38=-874/214, 5-37=-18/586, 6-37=-131/332, 6-35=-727/330,

7-35=-44/844, 8-42=-1752/631, 10-42=-1752/631, 19-21=-2211/537, 11-21=-303/525, 12-21=-95/1405, 12-18=-1883/379, 14-17=-377/1255, 14-16=-1165/492, 33-34=-596/23,

29-30=-56/263, 27-28=-82/496, 25-26=-105/735, 23-24=-264/56, 20-22=-1640/271,

34-35=0/1189, 32-33=-182/526, 30-31=-384/153, 28-29=-813/204, 26-27=-1322/258,

24-25=-1761/300, 22-24=-372/2416, 20-21=-375/2784, 18-21=-953/4900,

35-37=-1474/459

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=60ft; eave=7ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

December 11,2020

Continued on page 2

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal in-jury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply
					T22149288
0820-076	A2	Attic	10	1	
					Job Reference (optional)

Mayo, FL - 32066,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:08 2020 Page 2 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-v05RxUiukBWak2wHGd7dTQHHnN2D84G7AkDay2yA5nH

NOTES-

- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 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) Ceiling dead load (5.0 psf) on member(s). 7-8, 10-11, 8-42, 10-42; Wall dead load (5.0 psf) on member(s).7-35, 11-21
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 33-35, 31-33, 29-31, 27-29, 25-27, 23-25, 22-23, 21-22
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40 except (jt=lb) 41=872, 16=146.
- 9) 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.
- 10) Attic room checked for L/360 deflection.

Mayo, FL - 32066,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:10 2020 Page 1 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-sPDBLAk9GpmlzL4fN295YrMgwAlAcylQd2ig1wyA5nF

Structural wood sheathing directly applied.

1 Brace at Jt(s): 31, 42, 24, 33, 29, 27, 25, 22

Rigid ceiling directly applied.



Scale = 1:114.8 8x8 = 6.00 12 9 3x7 =3x7 = 10 3x7 II 3x7 || 10x10 / 10x10 ≥ 42 2x4 || 12 3.00 12 5x5 = 13 5x5 = 20-0-0 3 6x10 \\ 2 41 40 39 38 37 36 34 32 23 20 19 18 17 16 5x5 _ 2x4 || 4x6 6x6 = 4x8 = 7x6 = 4x8 = 2x4 || 7x6 = 2x4 | |4x8 = 7x6 =3x7 4x4 4x4 = 4x8 =5x9 =4x4 = 4x6 =

4x4 =

BRACING-

JOINTS

TOP CHORD

BOT CHORD

2-1-12									43-4	4-4			60-0-0
2-0-0 _{II}	8-2-12	12-7-0	16-0-14	19-6-11	23-0-8	33-2-4	37-0-4	40-2-2	43-4-0	47-0-0	52-11-8	57-9-4	58-ρ-0
2-0-0	6-1-0	4-4-4	3-5-13	3-5-13	3-5-13	10-1-12	3-10-0	3-1-14	3-1-14	3-7-12	5-11-8	4-9-12	0-2 ^L 12
0-1-12									0-0	1-4			2-0-0

7x6 =

Plate Offsets (X,Y)	[17:0-3-0,0-4-8], [20:0-3-0,0-4-8], [21:0-2	2-12,0-3-0], [31:0-2-8,0-3-	0], [32:0-3-0,0-4-8], [35:0-2-12,0-3-0], [38:0-3-0,0-4-8], [3	39:0-3-8,0-2-0]
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.64	Vert(LL) -0.17 33-35 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.82	Vert(CT) -0.35 36 >991 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.05 16 n/a n/a	
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Attic 0.09 21-35 2757 360	Weight: 523 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 6-9.9-12: 2x8 SP 2400F 2.0E

BOT CHORD 2x6 SP No.2 *Except*

BOT CHORD 2x6 SP No.2 *Except*

31-35: 2x4 SP No.2, 21-31: 2x4 SP No.1

WEBS 2x4 SP No.2

REACTIONS. All bearings 0-3-8 except (jt=length) 40=0-5-8, 16=0-5-8.

(lb) - Max Horz 41=366(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) except 41=-468(LC 18), 40=-200(LC 12), 19=-164(LC 8), 16=-132(LC

12)

Max Grav All reactions 250 lb or less at joint(s) except 40=2823(LC 18), 19=765(LC 23), 16=1353(LC 1),

23=2537(LC 18)

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

TOP CHORD 1-2=-86/474, 2-3=-461/2040, 3-4=-1024/350, 4-5=-1804/641, 5-6=-2054/736,

6-7=-1542/604, 7-8=-1455/685, 8-9=-633/291, 9-10=-673/298, 10-11=-1536/692,

11-12=-1619/596, 12-13=-1510/537, 13-14=-1472/474

BOT CHORD 1-41=-418/77, 40-41=-595/76, 39-40=-1723/503, 38-39=-215/1113, 37-38=-368/1838,

 $36\text{-}37\text{=-}838/3762,\ 34\text{-}36\text{=-}850/3786,\ 32\text{-}34\text{=-}712/3697,\ 30\text{-}32\text{=-}503/3127,}$

28-30=-282/2313, 26-28=-21/1133, 23-26=-537/289, 20-23=-870/322, 17-18=-306/1293,

 $33-35 = -2207/568,\ 31-33 = -1742/379,\ 29-31 = -1131/138,\ 27-29 = -157/555,\ 25-27 = -433/1953,$

24-25=-750/3724, 22-24=-750/3724, 21-22=-460/2290

WEBS 2-41=0/299, 2-40=-1534/430, 3-40=-2440/788, 3-39=-785/3074, 4-39=-1452/469, 4-38=-206/989, 5-38=-596/169, 5-37=0/321, 6-37=-207/660, 6-35=-913/360,

7-35=-188/282, 8-42=-967/492, 10-42=-967/492, 19-21=-680/203, 11-21=-479/155, 12-18=-452/134, 13-17=-266/189, 14-17=-391/1302, 14-16=-1202/498, 23-24=-368/76, 33-34=-127/302, 31-32=-118/424, 29-30=-136/648, 27-28=-166/923, 25-26=-166/1021,

20-22=-69/435, 34-35=-372/330, 32-33=-623/238, 30-31=-1023/277, 28-29=-1448/320,

26-27=-1959/380, 23-25=-2131/382, 22-23=-1570/319, 20-21=-1019/275,

35-37=-1925/536, 18-21=-330/1361

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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=60ft; eave=7ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

December 11,2020

Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply
					T22149289
0820-076	A3	Attic	13	1	
					Job Reference (optional)

Mayo, FL - 32066,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:10 2020 Page 2 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-sPDBLAk9GpmlzL4fN295YrMgwAlAcylQd2ig1wyA5nF

NOTES-

- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) All plates are 3x5 MT20 unless otherwise indicated.
- 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) Ceiling dead load (5.0 psf) on member(s). 7-8, 10-11, 8-42, 10-42; Wall dead load (5.0 psf) on member(s).7-35, 11-21
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 33-35, 31-33, 29-31, 27-29, 25-27, 24-25, 22-24, 21-22
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 468 lb uplift at joint 41, 200 lb uplift at joint 40, 164 lb uplift at joint 19 and 132 lb uplift at joint 16.
- 10) 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.
- 11) Attic room checked for L/360 deflection.

Job Truss Truss Type Qty Ply Capital Metal Supply T22149290 АЗА 0820-076 Attic 5 1 Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:12 2020 Page 1 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-ooKymrmPnQ00CfE2VTBZeGRwL_NJ4tzj5MBn5pyA5nD

23-0-8 3-5-13

25-8-11 27-1-10 2-8-3 1-4-15

8x8 = 4x6 > a 6.00 12 1.5x4 10 3x7 = 8 3x7 II 31 30 10x10 / 4x4 3x4 / 3.00 12 5 7 5x5 = 6-3-3 5x7 = 5x12 11 2 .17 12 0.5-15 -29 28 27 26 25 24 22 20 18 16 14 13 5x5 = 4x8 = 7x6 7x8 = 2x4 || 4x4 = 7x6 = 4x4 = 4x4 =6x10 = 2x4 | I4x6 = 2-1-12 19-6-11 16-0-14 3-5-13 37-0-4 3-10-0 3-5-13

T late Oil	10010 (71, 17	[11.0 0 0,0 2 0], [10.0 2 0,0 0 0], [2	7.0 0 0,0 0 0j, [20.0 0 12,2d	(o), [20:0 0 0,0 1 0], [21:0 0 0,0 2 0]	
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.97	Vert(LL) -0.32 21-23 >999 240	MT20 244/190
TCDL	10.0	Lumber DOL 1.25	BC 0.97	Vert(CT) -0.67 22-24 >519 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.05 13 n/a n/a	
BCDL	10.0	Code FBC2017/TPI2014	Matrix-AS	Attic -0.16 11-23 1019 360	Weight: 351 lb FT = 20%

[11:0-3-0 0-2-8] [19:0-2-8 0-3-0] [20:0-3-0 0-5-0] [23:0-5-12 Edge] [26:0-3-0 0-4-8] [27:0-3-8 0-2-0]

LUMBER-

Plate Offsets (X Y)--

TOP CHORD 2x4 SP No 2 *Except*

6-9.9-10: 2x8 SP 2400F 2.0E **BOT CHORD** 2x6 SP No.2 *Except*

19-23,11-19: 2x4 SP No.2

WEBS 2x4 SP No.2 **BRACING-**

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. Except:

2-2-0 oc bracing: 21-23 2-5-0 oc bracing: 19-21 2-9-0 oc bracing: 17-19 3-2-0 oc bracing: 15-17

4-4-0 oc bracing: 11-12 4-6-0 oc bracing: 12-15

WEBS 1 Row at midpt 2-28, 6-23, 11-30, 23-25 1 Brace at Jt(s): 31, 21, 19, 17, 15, 12 **JOINTS**

REACTIONS. (size) 29=0-3-8 28=0-5-8 13=0-3-8

Max Horz 29=402(LC 12)

Max Uplift 29=-1036(LC 18), 28=-147(LC 12) Max Grav 28=3202(LC 18), 13=2016(LC 18)

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

TOP CHORD 1-2=-166/740, 2-3=-661/3578, 3-4=-260/503, 4-5=-789/0, 5-6=-1184/16, 7-8=-259/3,

8-9=-507/217. 9-10=-526/269

BOT CHORD 1-29=-680/155, 28-29=-716/0, 27-28=-3297/112, 26-27=-388/0, 25-26=-324/781, 24-25=-1168/5553, 22-24=-1187/5607, 20-22=-772/5634, 18-20=-400/5120,

16-18=-162/4382, 14-16=-2/3264, 21-23=-5563/759, 19-21=-5118/430, 17-19=-4311/149,

15-17=-3193/0, 12-15=-1699/0, 11-12=-1699/0

WEBS 2-29=0/685, 2-28=-2767/546, 3-28=-2614/495, 3-27=-351/3320, 4-27=-1602/264,

4-26=-151/1438, 5-26=-903/136, 5-25=0/604, 6-25=-427/1687, 6-23=-1789/463, 7-23=-616/479, 8-31=-195/417, 30-31=-276/52, 11-13=-1957/102, 11-30=-577/229, 10-30=-483/234, 21-22=-304/327, 19-20=-226/420, 17-18=-153/607, 15-16=-89/857, 12-14=-283/0, 22-23=-334/518, 20-21=-634/414, 18-19=-931/300, 16-17=-1372/196,

14-15=-1834/85, 11-14=0/2352, 23-25=-4889/969, 10-31=-264/730

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left 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) Ceiling dead load (5.0 psf) on member(s). 7-8, 8-31, 30-31; Wall dead load (5.0 psf) on member(s).7-23, 11-30
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 19-21, 17-19, 15-17,

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal in-jury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

December 11,2020

Scale = 1:85.0



Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply
					T22149290
0820-076	A3A	Attic	5	1	
					Job Reference (optional)

Mayo, FL - 32066,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:12 2020 Page 2 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-ooKymrmPnQ00CfE2VTBZeGRwL_NJ4tzj5MBn5pyA5nD

NOTES-

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1036 lb uplift at joint 29 and 147 lb uplift at joint 28.
- 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 truss has large uplift reaction at jt. 29 from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 10) Attic room checked for L/360 deflection.



Mayo Truss, Mayo, Fl

B.420 s Sep 14 2020 MiTek Industries, Inc. Fri Dec 11 13:48:41 2020 Page 1 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-Gz6Z3ENJK_8JWKWxj_awYIJJZXRfAM0H577NDayA1Xq

Scale: 3/32"=1"

27-0-14 40-7-13 16-0-4 | 19-5-8 3-5-4 | 3-5-4 25-8-11 30-0-15 33-2-4 36-3-8 39-3-9 43-4-0 47-0-0 2-8-3 1-4-3 3-0-1 3-1-5 3-1-5 3-0-1 1-4-3 2-8-3 3-8-0

8x8 = 6.00 12 9 10 8x8 / 10x10 < 12 45 13 3.00 12 13-11-5 4x4 8x12 = 7x6 = 4x4 > 7x8 8x14 // 20-0-0 5x9 15 0-5-15 16 3_Y5 3x5 = 30 44 43 42 41 40 38 36 34 31 29 27 25 21 20 18 2x4 || 10x10 = 6x10 =6x6 = 6x8 = 6x6 = 12x12 =4x10 = 10x10 = 5x9 = 6886== 6x8 =6x8 = 3x5 = 3x5 = 6x6 = 6x6 =6x6 3x5 = 3x5 =

6x6

2-1-12 47-0-0 60-0-0 2-0-0 58-0-0 0-2-12 0-1-12 3-7-12 2-0-0

[1:1-11-0,Edge], [3:0-3-0,0-3-12], [5:0-4-0,0-4-8], [15:0-2-0,0-3-4], [18:0-5-0,0-6-0], [20:0-6-0,0-1-2], [22:0-2-8,Edge], [39:0-2-8,Edge], [43:0-3-8,0-3-0], Plate Offsets (X,Y)--[45:0-6-0.0-3-8]

LOADING	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 0.42	Vert(LL) -0.18 40 >999 2	240 MT20 137/130
TCDL	10.0	Lumber DOL 1.25	BC 0.79	Vert(CT) -0.30 40-41 >999 1	180
BCLL	0.0 *	Rep Stress Incr NO	WB 0.80	Horz(CT) 0.09 17 n/a	n/a
BCDL	10.0	Code FBC2017/TPI2014	Matrix-AS	Attic 0.10 22-39 2428 3	360 Weight: 2037 lb FT = 20%

LUMBER-

TOP CHORD

TOP CHORD 2x6 SP No.2 *Except*

5-9,9-13: 2x8 SP 2400F 2.0E

BOT CHORD 2x8 SP 2400F 2.0E *Except*

30-39,22-30: 2x4 SP No.2, 20-44: 1-1/2X11-1/4 LP-LSL 1.75E

WEBS 2x4 SP No.2 *Except*

2-43: 2x4 SP No.1, 9-45: 2x8 SP 2400F 2.0E

REACTIONS. All bearings 0-3-8 except (jt=length) 44=0-5-8, 17=0-5-8.

Max Horz 1=369(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) except 44=-2908(LC 12), 20=-621(LC

12), 17=-2262(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1 except 44=11185(LC 18),

20=1790(LC 19), 17=9748(LC 18), 27=4041(LC 18)

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

1-2=-1562/481, 2-3=-14508/5389, 3-4=-19377/8208, 4-5=-20422/9019, 5-6=-19796/9251,

6-7=-20901/9976 7-8=-23834/11656 8-9=-23349/11410 9-10=-23315/11404

10-11=-23565/11550. 11-12=-21031/10002. 12-13=-19732/9196. 13-14=-17262/7957.

14-15=-14078/6416. 15-16=-2676/1148

BOT CHORD 1-44=-419/1559, 43-44=-909/1952, 42-43=-5262/14644, 41-42=-7163/17611,

40-41=-8315/21011, 38-40=-8400/21240, 36-38=-8174/20649, 34-36=-7545/18811, 31-34=-6821/16486, 29-31=-6059/13815, 27-29=-5284/10877, 25-27=-4664/9083,

21-25=-4673/9861, 20-21=-4530/10099, 19-20=-4317/9797, 18-19=-5657/12656,

17-18=-982/2355, 16-17=-982/2355, 37-39=-2389/61, 35-37=-887/38, 33-35=-1292/1854,

32-33=-2054/4445, 30-32=-2829/7383, 28-30=-2829/7383, 26-28=-3011/8608,

24-26=-3011/8608, 23-24=-3449/9224, 22-23=-3440/8399

WEBS 2-44=-9533/4815, 2-43=-7506/15428, 3-43=-7642/3978, 39-40=-1804/718,

6-39=-2887/1653, 7-45=-1876/3441, 11-45=-1727/3185, 20-22=-2213/1218,

12-22=-3607/1831, 13-22=-2144/4741, 13-19=-3807/1810, 14-19=-1370/3217, 14-18=-3204/1578, 15-18=-4733/10441, 15-17=-7600/3580, 9-45=-188/339,

26-27=-335/82, 37-38=-336/931, 35-36=-384/1199, 33-34=-411/1422, 31-32=-417/1578,

28-29=-60/521, 24-25=-547/310, 21-23=0/346, 24-27=-522/770, 23-25=-1002/12,

21-22=-330/0, 27-28=-1411/209, 29-32=-3437/907, 31-33=-3125/891, 34-35=-2719/847,

36-37=-2150/735, 38-39=-691/277, 4-42=-1969/1397, 5-41=0/1170, 5-39=-689/385, 4-41=-980/1461, 3-42=-2500/3902, 39-41=-2771/602, 19-22=-2766/6174, 8-45=-759/441,

10-45=-326/275

NOTES-1) N/A

BRACING-

TOP CHORD Structural wood sheathing directly applied.

MANUFACTURER SPECIFICATIONS

BOT CHORD Rigid ceiling directly applied.

6x6 =

JOINTS 1 Brace at Jt(s): 45, 26, 37, 35, 33, 32, 28, 24, 23

> PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED AT JOINT 9 FOR LOAD REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.25"x 4.5" SCREWS OR OTHER FASTENERS THAT PENETRATES ALL PLIES, PER HANGER



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

December 11,2020

Continued on page 2

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILEN REFERENCE PAGE MILENGE BY USE AND INCLUDED MILENGE BY USE AND INC Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	
0820-076	A4GIR	ATTIC	1			T2214929
0020 070	7.1.6.1.1		·	3	Job Reference (optional)	

Mayo Truss, Mayo, FI

8.420 s Sep 14 2020 MTek Industries, Inc. Fri Dec 11 13:48:41 2020 Page 2 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-Gz6Z3ENJK_8JWKWxj_awYIJJZXRfAM0H577NDayA1Xq

NOTES-

2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 4 rows staggered at 0-4-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 1-1/2x11-1/4 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 15-17 2x4 - 1 row at 0-7-0 oc, 2x8 - 4 rows staggered at 0-4-0 oc.

- 3) 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.
- 4) Unbalanced roof live loads have been considered for this design.
- 5) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=60ft; eave=7ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) All plates are 3x7 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 6-7, 11-12, 7-45, 11-45; Wall dead load (5.0psf) on member(s). 6-39, 12-22
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 37-39, 35-37, 33-35, 32-33, 28-32, 26-28, 24-26, 23-24, 22-23
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2908 lb uplift at joint 44, 621 lb uplift at joint 20 and 2262 lb uplift at joint 17.
- 13) "\" indicates Released bearing: allow for upward movement at joint(s) 1.
- 14) 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.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20000 lb down and 9696 lb up at 33-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 6-7=-70, 7-9=-60, 9-11=-60, 11-12=-70, 12-16=-60, 1-16=-20, 22-39=-30, 7-11=-10

Drag: 6-39=-10 12-22=-10

Concentrated Loads (lb)

Vert: 9=-11250(F)

Job Truss Truss Type Qty Ply Capital Metal Supply T22149292 0820-076 A5GIR Attic 3 Job Reference (optional)

Mayo, FL - 32066 Mayo Truss Company, Inc.

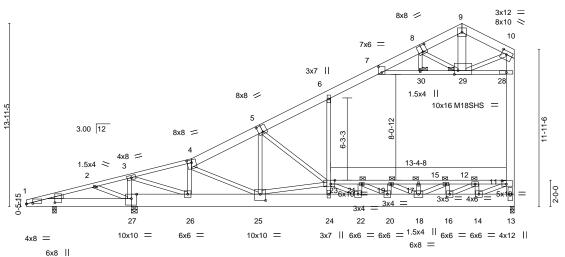
8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:18 2020 Page 1

ID:gw5BI?qSDFCFX_faR53HAoyJujL-dxhD1vqANGnAwahCrklztXhywOW6UbNbTHe5JSyA5n7 25-8-11 27-0-14 30-0-1 33-2-4 36-10-4 37-2-0 2-8-3 1-4-3 2-11-3 3-2-2 3-8-0 0-3-12

> 6.00 12 Scale = 1:87.8 8x8 =

> > 36-10-4 37-2-0

Structural wood sheathing directly applied, except end verticals.



4-4-4 3-8-0 0-3-12 6-2-12 5-2-12 5-2-12 10-1-12 [1:0-1-3,2-2-1], [1:0-5-14,0-0-8], [4:0-4-0,0-2-8], [5:0-4-0,0-6-0], [7:0-3-0,0-5-4], [8:0-4-0,0-6-0], [10:0-4-8,0-3-4], [11:0-4-0,0-3-0], [23:0-3-12, Edge], [10:0-4-8,0-3-4], [10:0-4-8,0-3-[25:0-5-0,0-5-12], [27:0-4-12,Edge], [29:0-3-6,0-3-8]

23-0-8

BRACING-

JOINTS

TOP CHORD

ROT CHORD

33-2-4

Rigid ceiling directly applied.

FAILURE TO DO SO WILL VOID THIS CONSTRUCTION

MANUFACTURER SPECIFICATIONS.

1 Brace at Jt(s): 29, 30, 12, 15, 17, 19, 21

DESIGNCONNECTION SYSTEM FOR A CONTINUOUS LOAD PATH FROM THE TRUSS TO THE FOUNDATION, AND DESIGN FOOTING/FOUNDATION TO RESIST SUCH UPLIFT.

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED AT

FASTENERS THAT PENETRATES ALL PLIES, PER HANGER

JOINT 9 FOR LOAD REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.25"x 4.5" SCREWS OR OTHER

PROVIDE CONNECTION OF TRUSS TO BEARING PLATE AT JOINT 1 CAPABLE OF WITHSTANDING 2963 LBS UPLIFT REACTION DUE TO GRAVITY LOADING APPLIED TO THE TRUSS. IT IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT/ENGINEER TO DESIGN THE CONNECTION OF THE TRUSS TO THE BEARING PLATE, PROVIDE AND

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	0.96	Vert(LL)	-0.32 22-24	>999	240	MT20	137/130
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.51 22-24	>682	180	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.02 13	n/a	n/a		
BCDL	10.0	Code FBC2017/TP	12014	Matri	x-AS	Attic	-0.16 11-23	1032	360	Weight: 1422 lb	FT = 20%

17-9-12

12-7-0

LUMBER-

Plate Offsets (X,Y)--

TOP CHORD 2x8 SP 2400F 2.0E *Except*

1-4: 2x4 SP No.1 BOT CHORD

2x8 SP 2400F 2.0E *Except* 11-23: 2x4 SP No.2, 13-27: 1-1/2X11-1/4 LP-LSL 1.75E

2x4 SP No.2 *Except* **WEBS**

7-28: 2x4 SP No.1, 9-29: 2x8 SP 2400F 2.0E

2-0-0

10-13: 1-1/2X7-1/4 LP-LSL 1.75E, 10-29: 2x4 SP SS

WEDGE

BOT CHORD

Left: 2x4 SP No.2

REACTIONS. (size) 27=0-5-8, 13=0-3-8 (req. 0-4-6), 1=0-3-8

Max Horz 1=404(LC 12)

Max Uplift 27=-518(LC 12), 13=-1305(LC 12), 1=-3247(LC 18) Max Grav 27=8543(LC 18), 13=18728(LC 18), 1=195(LC 12)

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

TOP CHORD 1-2=-1638/7992, 2-3=-1894/8936, 3-4=-505/1043, 4-5=-4576/503, 5-6=-2213/0,

6-7=-4506/687, 7-8=-16660/3547, 8-9=-14850/3107, 9-10=-14858/3096,

11-13=-18723/3673, 11-28=-15017/3107, 10-28=-14988/3114

1-27=-7495/724, 26-27=-8989/1114, 25-26=-725/0, 24-25=-3449/16065, 22-24=-3581/16607, 20-22=-3012/15747, 18-20=-2102/12542, 16-18=-381/4629,

 $14 - 16 = -152/414, \ 13 - 14 = -6228/1405, \ 21 - 23 = -13502/2436, \ 19 - 21 = -10297/1527,$

17-19=-6096/596, 15-17=-6096/596, 12-15=-2384/0, 11-12=-990/2358

WEBS 2-27=-1153/331, 3-27=-5278/1038, 3-26=-1484/8699, 4-26=-5426/1022, 4-25=-900/5547,

5-25=-647/2995, 5-23=-2030/564, 23-24=-3817/962, 6-23=-5926/1620, 7-30=-3244/14033, 29-30=-3248/14046, 28-29=-7699/1316, 9-29=-5774/1068, 10-29=-4023/20041,

8-29=-3821/999, 8-30=-607/171, 12-14=-2860/392, 15-16=-2599/471, 19-20=-606/2361,

21-22=-633/1878, 22-23=-1013/670, 20-21=-3774/1071, 18-19=-4946/1095,

15-18=-932/4371, 12-16=-936/5583, 11-14=-1130/6971, 23-25=-12423/2459

NOTES-

1) N/A

2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 4 rows staggered at 0-4-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 1-1/2x11-1/4 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 4 rows staggered at 0-4-0 oc.

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

Unbalanced roof live loads have been considered for this design.

No 58

No O'REGAN ENSE 58126

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

OF

December 11.2020

ENGIN



Continued on page 2
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with 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 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, evaluable from Trus Blots pertitive. 2570 Crisis Highways.

fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	
0820-076	A5GIR	Attic	1	3	Job Reference (optional)	T22149292

Mayo, FL - 32066,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:18 2020 Page 2 ID:gw5BI?qSDFCFX_faR53HAoyJujL-dxhD1vqANGnAwahCrklztXhywOW6UbNbTHe5JSyA5n7

NOTES-

- 5) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (5.0 psf) on member(s). 6-7, 7-30, 29-30, 28-29; Wall dead load (5.0 psf) on member(s).6-23
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 19-21, 17-19, 15-17, 12-15, 11-12
- 11) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 518 lb uplift at joint 27, 1305 lb uplift at joint 13 and 3247 lb uplift at joint 1.
- 13) 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.
- 14) This truss has large uplift reaction at jt. 1 from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19794 lb down and 3895 lb up at 33-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-6=-60, 6-7=-70, 7-9=-60, 9-10=-60, 13-31=-20, 11-23=-30, 7-28=-10

Drag: 6-23=-10 Concentrated Loads (lb) Vert: 9=-11250(F)

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply
				l .	T22149293
0820-076	F01	FLOOR	16	1	
					lJob Reference (optional)

Mayo, FL - 32066,

0-9-12

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:19 2020 Page 1 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-58FbEEro8av1YkGOPRpCQIEFYouxDBilixOfrvyA5n6

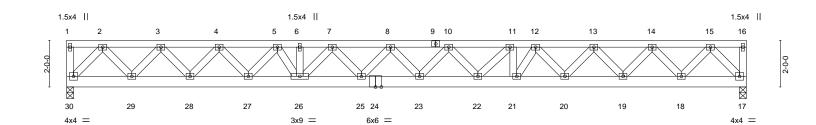
Structural wood sheathing directly applied or 2-4-15 oc purlins,

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

except end verticals.

1-4-8 0-9-12

Scale = 1:49.4



	10-0-0	19-2-0	29-2-0
	10-0-0	9-2-0	10-0-0
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-4-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code FBC2017/TPI2014	CSI. DEFL. in TC 0.46 Vert(LL) -0.46 BC 0.46 Vert(CT) -0.63 WB 0.30 Horz(CT) 0.07 Matrix-S Horz(CT) 0.07	(loc) I/defl L/d PLATES GRIP 23 >753 360 MT20 244/190 23 >548 240 17 n/a n/a Weight: 179 lb FT = 11%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x6 SP SS

2x4 SP No.2 WFBS

(size) 30=0-3-8, 17=0-3-8

Max Grav 30=1059(LC 1), 17=1059(LC 1)

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

2-3=-1510/0, 3-4=-2679/0, 4-5=-3559/0, 5-6=-4119/0, 6-7=-4119/0, 7-8=-4496/0, TOP CHORD

8-10=-4579/0, 10-11=-4342/0, 11-12=-4166/0, 12-13=-3554/0, 13-14=-2680/0,

14-15=-1509/0

BOT CHORD 29-30=0/859, 28-29=0/2160, 27-28=0/3182, 26-27=0/3931, 25-26=0/4386, 23-25=0/4598,

22-23=0/4532, 21-22=0/4166, 20-21=0/3941, 19-20=0/3181, 18-19=0/2161, 17-18=0/859 11-21=-296/0, 2-30=-1286/0, 2-29=0/1067, 3-29=-1067/0, 3-28=0/850, 4-28=-826/0,

4-27=0/617, 5-27=-610/0, 5-26=0/371, 15-17=-1285/0, 15-18=0/1066, 14-18=-1068/0,

14-19=0/851, 13-19=-823/0, 13-20=0/612, 12-20=-634/0, 12-21=0/443, 7-26=-409/0,

10-22=-312/0, 11-22=0/258

NOTES-

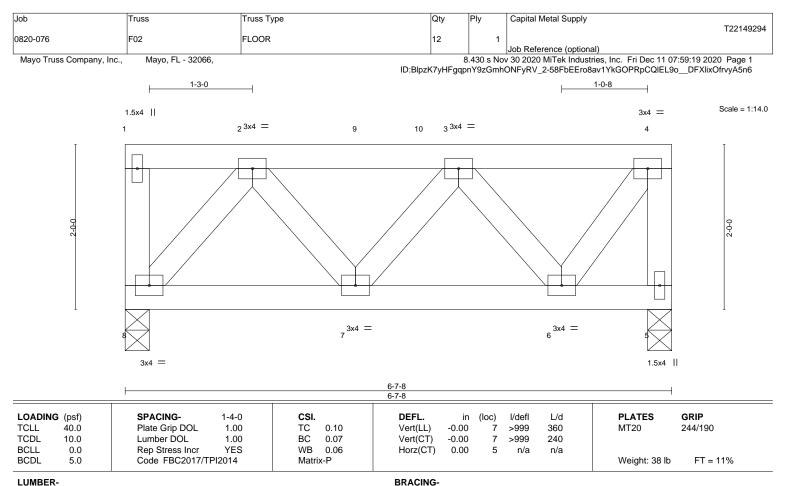
WFBS

- 1) All plates are 3x4 MT20 unless otherwise indicated.
- 2) The Fabrication Tolerance at joint 24 = 11%, joint 9 = 11%
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 **WEBS**

REACTIONS. (size) 5=0-3-8, 8=0-3-8

Max Grav 5=232(LC 1), 8=232(LC 1)

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

NOTES-

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



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

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

except end verticals.

6904 Parke East Blvd. Tampa FL 33610

December 11,2020



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

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



Job Truss Truss Type Qty Ply Capital Metal Supply T22149295 M1 16 0820-076 Monopitch 1 Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:20 2020 Page 1 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-ZKpzSasQvt1tAuraz8LRyynQuCEtyfWuxb7CNLyA5n5 9-4-6 7-1-10 Scale = 1:49.1 4 5 6.00 12 4x6 5x5 / 3

> 8 76 1.5x4 || 5x5 = 5x5 = 2-0-0 2-2-12 2-0-0 0-2-12 16-9-8 7-1-10 [3:0-2-8 0-3-4] [4:0-1-7 0-2-0] [8:0-2-8 0-3-0]

> > **BRACING-**

WFBS

TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [3:0-2-8,0-3-4], [4:0-1-7,0-2-0], [8:0-2-8,0-3-0]								
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 0.48	Vert(LL) -0	.07 7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.48	Vert(CT) -0	.14 7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) -0	.01 7	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS					Weight: 97 lb	FT = 20%

LUMBER-

REACTIONS.

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

2x4 SP No.2 WFBS

> (size) 9=0-5-8, 7=0-3-8 Max Horz 9=378(LC 11)

Max Uplift 9=-152(LC 12), 7=-125(LC 9) Max Grav 9=764(LC 1), 7=607(LC 17)

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

9-9-0

TOP CHORD 2-3=-619/193

BOT CHORD 8-9=-547/416 7-8=-410/528

WFBS 2-9=-659/418, 2-8=-87/476, 3-8=0/251, 3-7=-587/366

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(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=1.60 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.

3x4 /

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 9 and 125 lb uplift at joint 7.
- 5) 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.



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Structural wood sheathing directly applied, except end verticals.

4-7 3-7

Rigid ceiling directly applied.

1 Row at midpt

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Job Truss Truss Type Qty Ply Capital Metal Supply T22149296 M2 10 0820-076 Monopitch Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:21 2020 Page 1 ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-1WNMfwt2gB9kn2QnWssgVAJcwccGh8N29FtmwnyA5n4 2-1-12 Scale = 1:17.8 1.5x4 II 3 3.00 12 3x4 = 3x4 = П 1.5x4 4x4 =

		2-0-0	0-1-12		6-3-12		1
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) 1/c	defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL) 0.11 4-5 >6	665 240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.34	Vert(CT) -0.10 4-5 >7	763 180	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT) -0.00 4	n/a n/a	
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-AS			Weight: 38 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

8-5-8

LUMBER-

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

REACTIONS. (size) 4=0-5-8, 5=0-3-8

Max Horz 5=94(LC 11) Max Uplift 4=-102(LC 12), 5=-204(LC 12) Max Grav 4=217(LC 1), 5=448(LC 1)

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

2-0-0

2-1-12

BOT CHORD 4-5=-321/182

WEBS 2-5=-351/253, 2-4=-146/291

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 4 and 204 lb uplift at ioint 5.
- 5) 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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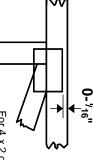


Symbols

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 20/20 software or upon request.

PLATE SIZE



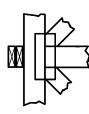
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



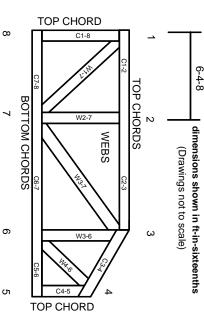
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 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 may require bracing, or alternative Tor I bracing should be considered.

9

Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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- Cut members to bear tightly against each other.
- 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.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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.
- 17. 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.