

RE: Drayton Rev 2-El. 1,2-Floor

Site Information:

Project Customer: DRB Raleigh Project Name: DRB Raleigh Model Track

Lot/Block: Subdivision:

Model: Address:

City: State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.8

No.

Seal#

I71823470 I71823471

Wind Code: ASCE 7-16 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Truss Name Date

Wind Speed: 115 mph Floor Load: N/A psf Roof Load: 40.0 psf

Exposure Category: B Mean Roof Height (feet): 25

No.	Seal# I71823436 I71823437	Truss Name 1FGE6 1F6	3/5/25
3 4 5	171823438 171823439	2F10 1FGE3 1F7	3/5/25 3/5/25 3/5/25 3/5/25
12345678910	171823441 171823442 171823443	1FGE8 2F4 1FGE5 1FGE7	3/5/25 3/5/25 3/5/25
10 11 12 13	171823444 171823445 171823446 171823447	1FGE 7 1F5 2F2 2F2A 2F3 2FGE1 1FGE2	3/5/25 3/5/25 3/5/25 3/5/25
13 14	171823447 171823448 171823449 171823450	2F3 2FGE1 1FGE2	3/5/25 3/5/25 3/5/25
16 17 18	171823451 171823452 171823453	1F3 2F2C 2F2B 2F2D	3/5/25 3/5/25 3/5/25
18 19 20 21	171823454 171823455 171823456	1F2 1F2A	3/5/25 3/5/25 3/5/25
21 22 23	171823457 171823458 171823459	1FGE1 1FGE4 2F1	3/5/25 3/5/25 3/5/25
25 26 27	171823460 171823461 171823462	2FGE 1F1 1F1A	3/5/25 3/5/25 3/5/25
26 27 28 29 30	171823463 171823464 171823465	1FGÉR 1F4 2F9 2F7 2F8 2F8A	3/5/25 3/5/25 3/5/25
31 32	171823465 171823466 171823467 171823468 171823469	2F7 2F8 2F8A	3/5/25 3/5/25 3/5/25
34	171823469	2F5	3/5/25

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters

My license renewal date for the state of North Carolina is December 31, 2025.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(a) idea in designs comply with ANSUTED. 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.

Trenco

818 Soundside Rd

Edenton, NC 27932

March 5,2025

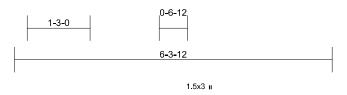
Gilbert, Eric

Qty Job Truss Truss Type Ply Drayton Rev 2-El. 1,2-Floor I71823438 2F10 Floor 2 Job Reference (optional)

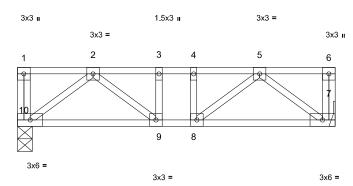
Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:52 ID:HZ1V26FOqz_6btkh2lbxTQzvZBE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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3x3 =

Scale = 1:22.9

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.01	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 36 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 7= Mechanical, 10=0-3-8

Max Grav 7=267 (LC 1), 10=267 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

1-10=-44/0, 6-7=-44/0, 1-2=0/0, 2-3=-391/0, 3-4=-391/0, 4-5=-391/0, 5-6=0/0

BOT CHORD 9-10=0/282, 8-9=0/391, 7-8=0/282 **WEBS**

5-7=-353/0, 2-10=-353/0, 5-8=0/163,

2-9=0/163, 3-9=-72/0, 4-8=-72/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Bearings are assumed to be: Joint 10 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



March 5,2025



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
	2F4	Floor	8	1	 Job Reference (optional)	171823442

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Wed Mar 05 09:20:49 ID:ewbqdRY?BI592E47JpeykbzvZHI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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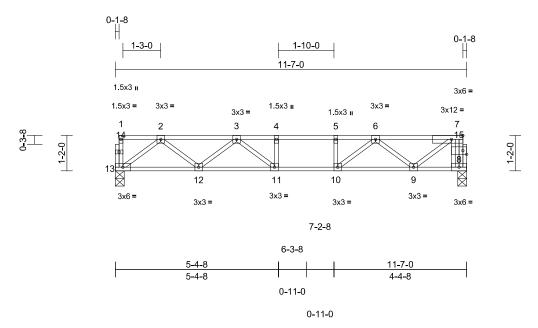


Plate Offsets ()	(, Y):	[7:0-4-8.Edge].	[15:0-1-8.0-1-8]

Landina	(f)	Ci	4.7.0	001		DEEL		(1)	1/-1 - 41	1 /-1	DI ATEC	CDID
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	/defl	L/a	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.08	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.10	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:38

2x4 SP No.2(flat) TOP CHORD **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WFBS OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 8=0-3-8, 13=0-3-8

Max Grav 8=488 (LC 1), 13=488 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-13=-29/0, 7-8=-479/0, 1-2=-2/0, 2-3=-930/0,

3-4=-1284/0, 4-5=-1284/0, 5-6=-1284/0,

6-7=-564/0

BOT CHORD 12-13=0/599, 11-12=0/1220, 10-11=0/1284,

9-10=0/1025, 8-9=0/29

WEBS 4-11=-131/0, 5-10=-201/0, 2-13=-749/0,

2-12=0/431, 3-12=-376/0, 3-11=-46/260,

6-10=0/447, 6-9=-601/0, 7-9=0/661

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.2.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



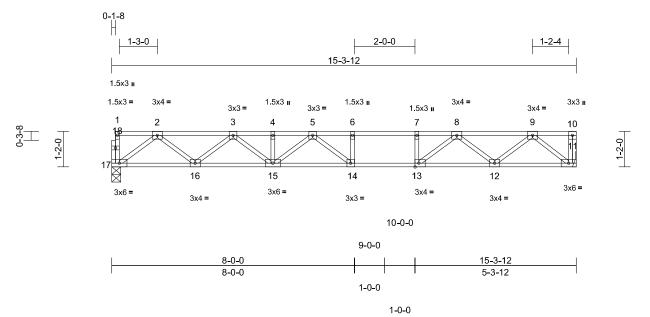
March 5,2025



Job	Truss	Truss Type Qty Ply Drayton Rev		Drayton Rev 2-El. 1,2-Floor		
	2F2	Floor	8	1	Job Reference (optional)	l71823446

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Scale = 1:38

Plate Offsets (X, Y): [13:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.78	Vert(LL)	-0.19	14-15	>936	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.26	14-15	>685	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 78 lb	FT = 20%F, 12%E

LUMBER

2x4 SP No.2(flat) TOP CHORD BOT CHORD 2x4 SP SS(flat) 2x4 SP No 3(flat) WFBS OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 11= Mechanical, 17=0-3-8

Max Grav 11=662 (LC 1), 17=657 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension 1-17=-28/0, 10-11=-27/0, 1-2=-2/0,

2-3=-1346/0, 3-4=-2170/0, 4-5=-2170/0,

5-6=-2283/0, 6-7=-2283/0, 7-8=-2283/0,

8-9=-1305/0, 9-10=0/0

BOT CHORD 16-17=0/817, 15-16=0/1858, 14-15=0/2341,

13-14=0/2283, 12-13=0/1838, 11-12=0/785

WEBS 6-14=-125/39, 7-13=-289/0, 2-17=-1023/0, 2-16=0/688, 3-16=-667/0, 5-15=-232/0,

3-15=0/398, 4-15=-55/0, 5-14=-233/243,

8-13=0/692, 8-12=-694/0, 9-12=0/676,

9-11=-1003/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Bearings are assumed to be: Joint 17 SP SS. Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

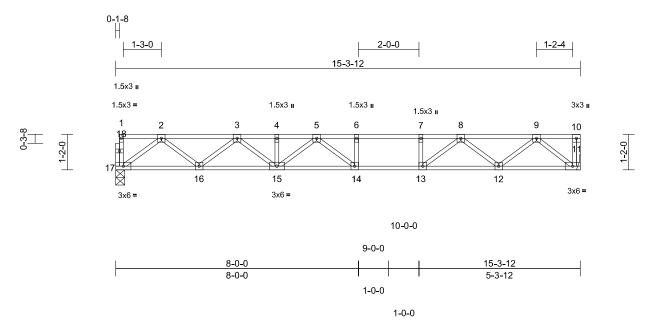
LOAD CASE(S) Standard



I	Job	Truss	Truss Type Qty Ply Drayton		Drayton Rev 2-El. 1,2-Floor		
		2F2A	Floor	6	1	Job Reference (optional)	l71823447

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Wed Mar 05 09:20:48 ID:cDJYxJVNEWgHf64SM6b4slzvZJy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:38

Loading	(psf)	Spacing	1-4-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.18	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.25	14-15	>737	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 78 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No 3(flat) WFBS **OTHERS** 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

11= Mechanical, 17=0-3-8 REACTIONS (size)

Max Grav 11=552 (LC 1), 17=548 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-17=-23/0, 10-11=-22/0, 1-2=-1/0,

2-3=-1123/0, 3-4=-1809/0, 4-5=-1809/0,

5-6=-1904/0, 6-7=-1904/0, 7-8=-1904/0,

8-9=-1089/0, 9-10=0/0

BOT CHORD 16-17=0/682, 15-16=0/1549, 14-15=0/1955,

13-14=0/1904, 12-13=0/1529, 11-12=0/656 6-14=-106/50, 7-13=-259/0, 2-17=-854/0,

2-16=0/574, 3-16=-555/0, 3-15=0/332, 4-15=-47/0, 5-15=-192/0, 5-14=-200/204, 8-13=0/584, 8-12=-573/0, 9-12=0/563,

9-11=-838/0

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 17 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



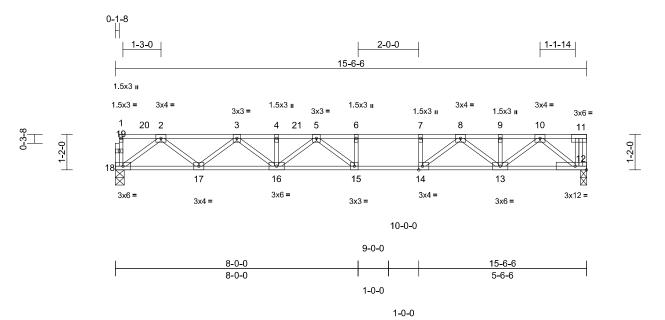
March 5,2025



Job	Truss	Truss Type Qty Ply Drayton Rev 2-El. 1,2-Floor		Drayton Rev 2-El. 1,2-Floor		
	2F3	Floor	14	1	Job Reference (optional)	l71823448

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Scale = 1:38

Plate Offsets (X, Y): [14:0-1-8,Edge]

Landina	(nof)	Cuasina	1-7-3	csi		DEFL	in	(loc)	l/defl	1 /d	PLATES	GRIP
Loading	(psf)	Spacing	1-7-3	Logi		DEFL	in	(IOC)	/deli	L/u	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.19	15-16	>945	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.26	15-16	>690	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 lb	FT = 20%F, 12%E

LUMBER

 TOP CHORD
 2x4 SP No.2(flat)

 BOT CHORD
 2x4 SP SS(flat)

 WEBS
 2x4 SP No.3(flat)

 OTHERS
 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 12=0-2-6, 18=0-3-8

Max Grav 12=670 (LC 1), 18=666 (LC 1)

ORCES (Ib) - Maximum Compression/Maximum

FORCES (lb) - Maximum Tension

TOP CHORD 1-18=-28/0, 11-12=-45/0, 1-2=-2/0,

2-3=-1368/0, 3-4=-2209/0, 4-5=-2209/0, 5-6=-2347/0, 6-7=-2347/0, 7-8=-2347/0,

8-9=-1409/0, 9-10=-1409/0, 10-11=0/0 BOT CHORD 17-18=0/830, 16-17=0/1889, 15-16=0/2390,

14-15=0/2347, 13-14=0/1888, 12-13=0/787

WEBS 6-15=-129/37, 7-14=-297/0, 2-18=-1039/0, 2-17=0/701, 3-17=-679/0, 3-16=0/408,

4-16=-57/0, 5-16=-242/0, 5-15=-223/258, 8-14=0/697, 8-13=-612/0, 9-13=-121/0,

10-13=0/794, 10-12=-996/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be SP SS
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 12-18=-8, 1-20=-80, 20-21=-81, 11-21=-80



March 5,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

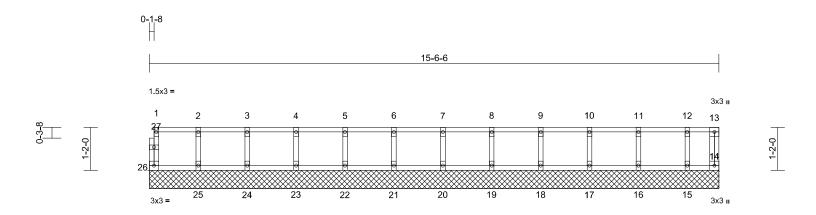
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
	2FGE1	Floor Supported Gable	2	1	Job Reference (optional)	I71823449

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Wed Mar 05 09:20:52 ID:WcjdBZnsG51ENPBqZNUx85zvZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:31.5

Loading	(psf)	Spacing	1-7-3	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 66 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WFBS OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

14=15-6-6, 15=15-6-6, 16=15-6-6, 17=15-6-6, 18=15-6-6, 19=15-6-6, 20=15-6-6, 21=15-6-6, 22=15-6-6, 23=15-6-6, 24=15-6-6, 25=15-6-6,

26=15-6-6

14=28 (LC 1), 15=92 (LC 1), Max Grav 16=122 (LC 1), 17=116 (LC 1), 18=118 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=117 (LC 1), 22=117 (LC 1), 23=117 (LC 1),

24=117 (LC 1), 25=118 (LC 1), 26=42 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-39/0, 13-14=-22/0, 1-2=-5/0, 2-3=-5/0, 3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0, 7-8=-5/0, 8-9=-5/0, 9-10=-5/0, 10-11=-5/0,

11-12=-5/0, 12-13=-5/0

BOT CHORD 25-26=0/5, 24-25=0/5, 23-24=0/5, 22-23=0/5, 21-22=0/5, 20-21=0/5, 19-20=0/5, 18-19=0/5,

17-18=0/5, 16-17=0/5, 15-16=0/5, 14-15=0/5

WFBS 2-25=-106/0. 3-24=-107/0. 4-23=-106/0. 5-22=-107/0, 6-21=-107/0, 7-20=-107/0

8-19=-107/0, 9-18=-107/0, 10-17=-106/0, 11-16=-111/0, 12-15=-87/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No 2 .
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



March 5,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

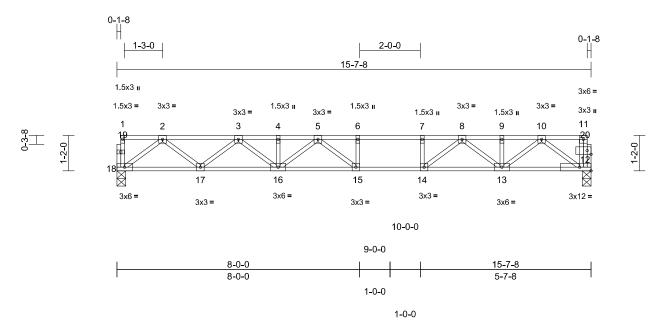
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
	2F2C	Floor	4	1	Job Reference (optional)	l71823452

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Wed Mar 05 09:20:48 ID:kSHTjD000QpzoO3DR0BxOVzqBw1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38

Plate Offsets (X, Y): [20:0-1-8,0-1-8]

Loading	(psf)	Spacing	1-4-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.18	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.25	15-16	>748	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 lb	FT = 20%F, 12%E

LUMBER

2x4 SP No.2(flat) TOP CHORD **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WFBS OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 12=0-3-8, 18=0-3-8

Max Grav 12=557 (LC 1), 18=557 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-18=-23/0, 11-12=-39/0, 1-2=-1/0,

2-3=-1146/0, 3-4=-1853/0, 4-5=-1853/0, 5-6=-1984/0, 6-7=-1984/0, 7-8=-1984/0, 8-9=-1218/0, 9-10=-1218/0, 10-11=-2/0

17-18=0/694, 16-17=0/1582, 15-16=0/2012, BOT CHORD

14-15=0/1984, 13-14=0/1605, 12-13=0/701

6-15=-114/45, 7-14=-263/0, 2-18=-869/0, 2-17=0/588, 3-17=-568/0, 3-16=0/346, 4-16=-49/0, 5-16=-205/0, 5-15=-184/227,

8-14=0/582, 8-13=-494/0, 9-13=-104/0,

10-13=0/660, 10-12=-863/0

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.2
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



March 5,2025



Qty Job Truss Truss Type Ply Drayton Rev 2-El. 1,2-Floor I71823453 2F2B Floor Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:48 ID:kSHTjD000QpzoO3DR0BxOVzqBw1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

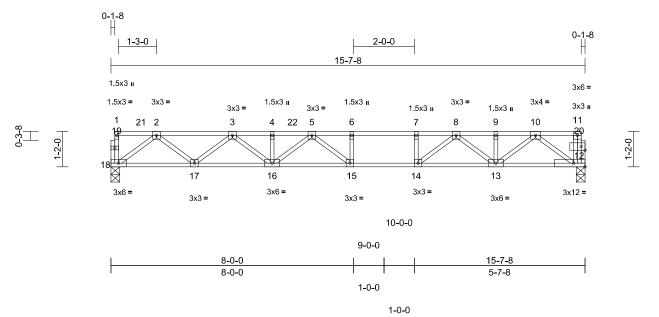


Plate Offsets (X, Y)	: [20:0-1-8,0-1-8]											
Loading	(psf)	Spacing	1-4-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	тс	0.83	Vert(LL)	-0.18	15-16	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	ВС	0.98	Vert(CT)	-0.26	15-16	>719	360			
BCLL	0.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.04	12	n/a	n/a			
BCDI	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 lb	FT = 20%F 12%F	

Dead + Floor Live (balanced): Lumber Increase=1.00,

Vert: 12-18=-7, 1-21=-67, 21-22=-73, 11-22=-67

Plate Increase=1.00

Uniform Loads (lb/ft)

LUMBER 2x4 SP No.2(flat) TOP CHORD

BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WFBS **OTHERS** 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 12=0-3-8, 18=0-3-8

Max Grav 12=564 (LC 1), 18=581 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-18=-22/0, 11-12=-39/0, 1-2=-1/0,

2-3=-1195/0, 3-4=-1918/0, 4-5=-1918/0, 5-6=-2025/0, 6-7=-2025/0, 7-8=-2025/0, 8-9=-1236/0, 9-10=-1236/0, 10-11=-2/0

BOT CHORD 17-18=0/727, 16-17=0/1648, 15-16=0/2070,

14-15=0/2025, 13-14=0/1631, 12-13=0/710

6-15=-106/53, 7-14=-272/0, 2-18=-911/0, WEBS

2-17=0/609, 3-17=-589/0, 3-16=0/346, 4-16=-53/0, 5-16=-195/0, 5-15=-204/207, 8-14=0/602, 8-13=-506/0, 9-13=-105/0,

10-13=0/671, 10-12=-874/0

NOTES

- Unbalanced floor live loads have been considered for 1)
- All bearings are assumed to be SP No.2
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard

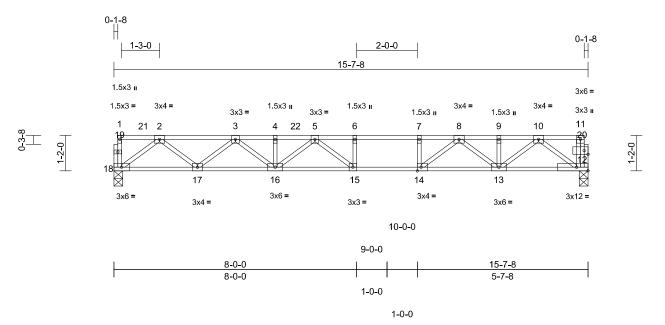




Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
	2F2D	Floor	2	1	Job Reference (optional)	171823454

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:49 ID:kSHTjD000QpzoO3DR0BxOVzqBw1-RfC?PsB70Hq3NSgPqnL8w3uJTXbGKWrCDoi7J4zJC?f

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Scale = 1:38

Plate Offsets (X, Y): [14:0-1-8,Edge], [20:0-1-8,0-1-8]

	(6)		1.7.0	1001		DEE!		41	17.161	1.7.1	DI ATEO	ODID
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	/defl	L/a	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.19	15-16	>950	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.28	15-16	>655	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 12=0-3-8, 18=0-3-8

Max Grav 12=681 (LC 1), 18=713 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-18=-26/0, 11-12=-46/0, 1-2=-2/0,

2-3=-1465/0, 3-4=-2344/0, 4-5=-2344/0, 5-6=-2455/0, 6-7=-2455/0, 7-8=-2455/0,

8-9=-1490/0, 9-10=-1490/0, 10-11=-3/0 17-18=0/894, 16-17=0/2020, 15-16=0/2517,

BOT CHORD 17-18=0/894, 16-17=0/2020, 15-16=0/2517 14-15=0/2455, 13-14=0/1979, 12-13=0/857

WEBS 6-15=-119/48, 7-14=-308/0, 10-12=-1055/0, 10-13=0/808, 2-18=-1119/0, 2-17=0/744,

3-17=-723/0, 3-16=0/414, 4-16=-65/0, 5-16=-230/0, 5-15=-251/233, 8-14=0/724,

8-13=-625/0, 9-13=-122/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be SP SS.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard

 Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 12-18=-8, 1-21=-80, 21-22=-91, 11-22=-80

Concentrated Loads (lb)

Vert: 21=0



March 5,2025



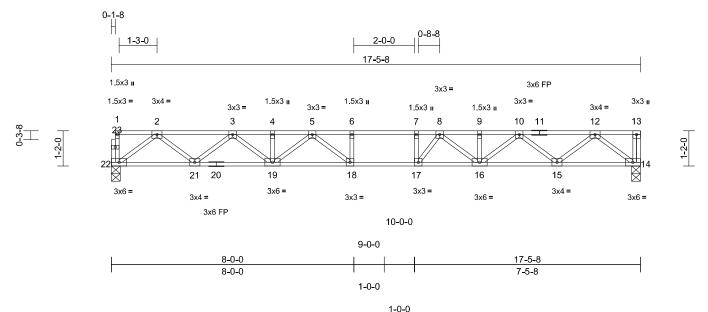
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
	2F1	Floor	14	1	Job Reference (optional)	l71823459

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Wed Mar 05 09:20:47 ID:gZgNypGSihHztC7olcldakzvZKF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:38.1

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.24	18	>857	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.33	18	>622	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%F, 12%E

LUMBER

2x4 SP No.2(flat) TOP CHORD **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WFBS 2x4 SP No 3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

2-2-0 oc bracing: 18-19,17-18. 14=0-3-8, 22=0-3-8

REACTIONS (size) Max Grav 14=757 (LC 1), 22=752 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-28/0, 13-14=-31/0, 1-2=-2/0,

2-3=-1585/0, 3-4=-2630/0, 4-5=-2630/0, 5-6=-3087/0, 6-7=-3087/0, 7-8=-3087/0, 8-9=-2627/0, 9-10=-2627/0, 10-12=-1587/0,

12-13=0/0

BOT CHORD 21-22=0/943, 19-21=0/2202, 18-19=0/2930,

17-18=0/3087, 16-17=0/2931, 15-16=0/2199,

14-15=0/945

WEBS 6-18=-219/0, 7-17=-327/8, 12-14=-1185/0,

12-15=0/836, 10-15=-797/0, 10-16=0/546, 2-22=-1181/0, 2-21=0/836, 3-21=-803/0, 3-19=0/546, 4-19=-75/0, 5-19=-383/0, 5-18=-80/468, 9-16=-88/0, 8-16=-415/0,

8-17=-64/525

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.2 .
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



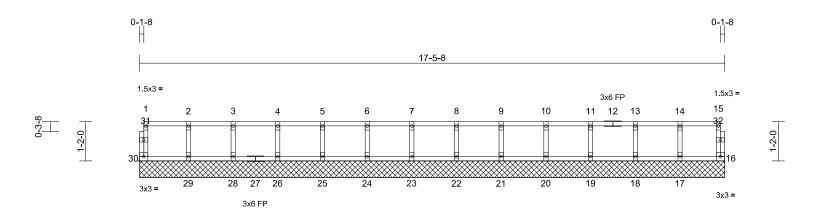
March 5,2025



	Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
ı		2FGE	Floor Supported Gable	2	1	Job Reference (optional)	l71823460

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Wed Mar 05 09:20:52 ID:9NOJa1W3SKGMk1VbHl5nFSzvZle-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.4

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 73 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No 3(flat) WFBS **OTHERS** 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing.

REACTIONS (size)

16=17-5-8, 17=17-5-8, 18=17-5-8, 19=17-5-8, 20=17-5-8, 21=17-5-8, 22=17-5-8, 23=17-5-8, 24=17-5-8, 25=17-5-8, 26=17-5-8, 28=17-5-8,

29=17-5-8, 30=17-5-8 Max Grav

16=46 (LC 1), 17=113 (LC 1), 18=119 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=117 (LC 1),

22=117 (LC 1), 23=117 (LC 1), 24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1), 28=116 (LC 1), 29=121 (LC 1), 30=51 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-30=-46/0, 15-16=-41/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-13=-9/0, 13-14=-9/0, 14-15=-9/0

BOT CHORD 29-30=0/9, 28-29=0/9, 26-28=0/9, 25-26=0/9,

24-25=0/9, 23-24=0/9, 22-23=0/9, 21-22=0/9,

20-21=0/9, 19-20=0/9, 18-19=0/9, 17-18=0/9,

16-17=0/9

WEBS 14-17=-103/0, 13-18=-108/0, 11-19=-106/0, 10-20=-107/0, 9-21=-107/0, 8-22=-107/0,

7-23=-107/0, 6-24=-107/0, 5-25=-107/0, 4-26=-107/0, 3-28=-106/0, 2-29=-110/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise
- Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



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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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

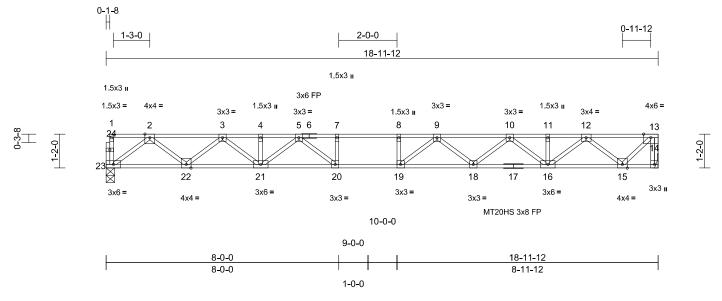


Job Truss Truss Type Qty Ply Drayton Rev 2-El. 1,2-Floor I71823465 2F9 Floor 6 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:51 ID:q7shCSVZb02y1NcIRvZTRFzvZG3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



1-0-0 Scale = 1:39.7

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.31	18-19	>726	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.43	18-19	>527	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%F, 12%E

6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

LUMBER

2x4 SP No.2(flat)

TOP CHORD **BOT CHORD** 2x4 SP SS(flat) *Except* 17-14:2x4 SP No.2

(flat)

2x4 SP No.3(flat) WEBS OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-13 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 14= Mechanical, 23=0-3-8

Max Grav 14=824 (LC 1), 23=819 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD 1-23=-28/0, 13-14=-820/0, 1-2=-2/0,

2-3=-1755/0, 3-4=-2954/0, 4-5=-2954/0, 5-7=-3650/0, 7-8=-3650/0, 8-9=-3650/0, 9-10=-3253/0, 10-11=-2321/0, 11-12=-2321/0,

12-13=-787/0

BOT CHORD 22-23=0/1032, 21-22=0/2447, 20-21=0/3348,

19-20=0/3650, 18-19=0/3559, 16-18=0/2909,

15-16=0/1656, 14-15=0/0

WEBS 7-20=-271/0, 8-19=-200/24, 2-23=-1292/0,

2-22=0/941, 3-22=-901/0, 3-21=0/648, 4-21=-82/0, 5-21=-502/0, 5-20=0/630, 11-16=-47/0, 9-19=-177/454, 9-18=-398/0, 10-18=0/448, 10-16=-751/0, 12-16=0/848,

12-15=-1132/0, 13-15=0/1081

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Bearings are assumed to be: Joint 23 SP SS. Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



March 5,2025

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	Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
ı		2F7	Floor	4	1	Job Reference (optional)	l71823466

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Wed Mar 05 09:20:51 ID:G1 ewUq3qWiwWe8929 z5FzvZBm-RfC?PsB70Hq3NSgPqnL8w3u|TXbGKWrCDoi7J4zJC?f Page: 1

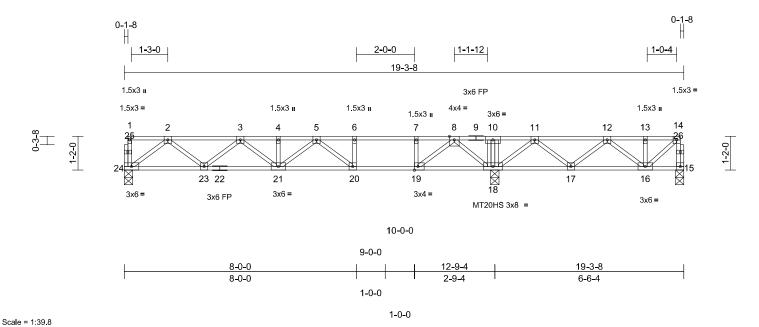


Plate Offsets (X, Y): [19:0-1-8.Edge]

	That officer (1,1). [The control of the control of												
Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.18	20-21	>862	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.24	20-21	>627	360	MT20HS	187/143	
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	15	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 101 lb	FT = 20%F, 12%E	

LUMBER

TOP CHORD 2x4 SP No.2(flat) *Except* 9-1:2x4 SP SS

(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 22-15:2x4 SP SS

(flat)

WEBS 2x4 SP No 3(flat) OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 15=0-3-8, 18=0-3-8, 24=0-3-8

15=290 (LC 7), 18=853 (LC 1), Max Grav

24=549 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-24=-28/0, 14-15=-285/0, 1-2=-2/0,

2-3=-1074/0, 3-4=-1640/0, 4-5=-1640/0, 5-6=-1368/0, 6-7=-1368/0, 7-8=-1368/0,

8-10=-66/242, 10-11=-66/243, 11-12=-448/0,

12-13=-284/0, 13-14=-284/0

BOT CHORD 23-24=0/674, 21-23=0/1462, 20-21=0/1674,

19-20=0/1368, 18-19=0/646, 17-18=0/377, 16-17=0/476, 15-16=0/17

WEBS 6-20=0/140. 7-19=-429/0, 10-18=-143/0,

2-24=-844/0, 2-23=0/520, 3-23=-506/0, 3-21=0/226, 4-21=-36/0, 5-21=-55/8, 5-20=-428/0, 11-18=-462/0, 11-17=0/161, 8-19=0/941, 8-18=-812/0, 12-17=-122/1, 12-16=-245/0, 13-16=-81/0, 14-16=0/361

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated. All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 24 SP No.2, Joint 18 SP SS, Joint 15 SP SS.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



March 5,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
	2F8	Floor	10	1	Job Reference (optional)	l71823467

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:51 ID:YO6b8xf9DD0Tw_NZWMmloHzvZEa-RfC?PsB70Hq3NSgPqnL8w3u|TXbGKWrCDoi7J4zJC?f

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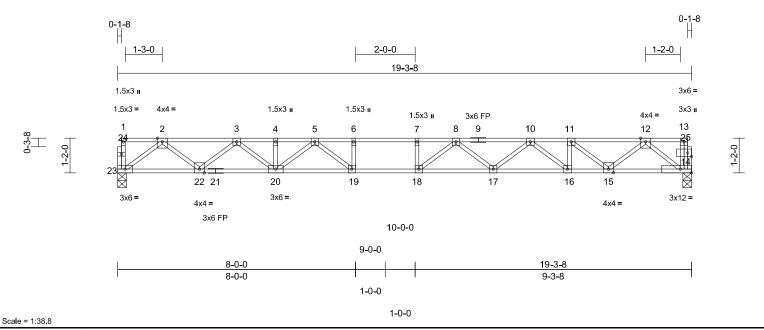


Plate Offsets (X, Y): [25:0-1-8,0-1-8]

				l								
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.33	17-18	>695	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.45	17-18	>505	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 99 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 21-14:2x4 SP SS

(flat)

WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 14=0-3-8, 23=0-3-8

Max Grav 14=830 (LC 1), 23=830 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-29/0, 13-14=-24/0, 1-2=-2/0,

2-3=-1783/0, 3-4=-3008/0, 4-5=-3008/0, 5-6=-3743/0, 6-7=-3743/0, 7-8=-3743/0, 8-10=-3385/0, 10-11=-2507/0, 11-12=-1766/0,

12-13=-1/0

BOT CHORD 22-23=0/1046, 20-22=0/2487, 19-20=0/3416,

18-19=0/3743, 17-18=0/3679, 16-17=0/3046,

15-16=0/2507, 14-15=0/1034

WEBS 6-19=-281/0, 7-18=-194/36, 2-23=-1310/0,

2-22=0/959, 3-22=-917/0, 3-20=0/664, 4-20=-84/0, 5-20=-522/0, 5-19=0/657, 11-16=0/433, 11-15=-946/0, 12-15=0/952, 12-14=-1303/0, 8-18=-208/439, 8-17=-382/0,

10-17=0/442, 10-16=-688/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 23 SP No.2, Joint 14 SP SS.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



March 5,2025



Qty Job Truss Truss Type Ply Drayton Rev 2-El. 1,2-Floor I71823468 2F8A Floor 10 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:51 ID:YO6b8xf9DD0Tw_NZWMmloHzvZEa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

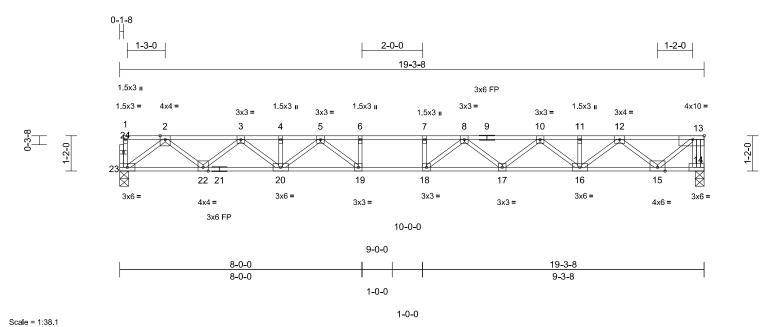


Plate Offsets (X, Y): [13:0-4-8,Edge]

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.33	17-18	>694	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.45	17-18	>504	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 99 lb	FT = 20%F, 12%E

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 21-14:2x4 SP SS **BOT CHORD** (flat)

2x4 SP No.3(flat) WERS OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-10 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 14=0-3-8, 23=0-3-8

Max Grav 14=835 (LC 1), 23=830 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-29/0, 13-14=-829/0, 1-2=-2/0,

2-3=-1783/0, 3-4=-3008/0, 4-5=-3008/0, 5-6=-3744/0, 6-7=-3744/0, 7-8=-3744/0, 8-10=-3387/0, 10-11=-2474/0, 11-12=-2474/0,

12-13=-966/0

22-23=0/1046, 20-22=0/2487, 19-20=0/3416, BOT CHORD

 $18\hbox{-}19\hbox{-}0/3744,\ 17\hbox{-}18\hbox{-}0/3676,\ 16\hbox{-}17\hbox{-}0/3054,$

15-16=0/1837, 14-15=0/0

WEBS 6-19=-281/0, 7-18=-195/34, 2-23=-1310/0,

2-22=0/959, 3-22=-917/0, 3-20=0/664, 4-20=-84/0, 5-20=-522/0, 5-19=0/658, 11-16=-35/0, 8-18=-204/440, 8-17=-376/0, 10-17=0/433, 10-16=-740/0, 12-16=0/814,

12-15=-1133/0, 13-15=0/1219

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Bearings are assumed to be: Joint 23 SP No.2, Joint 14
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



March 5,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

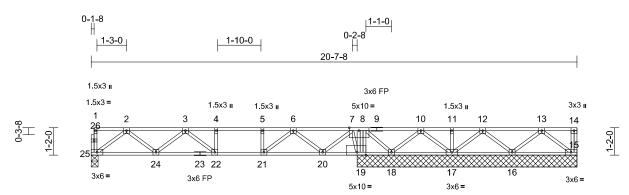
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

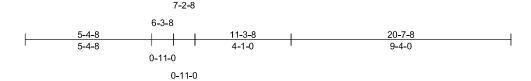


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
	2F5	Floor	2	1	Job Reference (optional)	l71823469

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Page: 1





Scale = 1:49

Plate Offsets (X, Y): [19:0-4-8,Edge]

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.58	Vert(LL)	-0.11	22-24	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.14	22-24	>964	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 108 lb	FT = 20%F, 12%E

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

OTHERS 2x4 SP No.3(flat) BRACING

TOP CHORD

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

bracing, Except:

10-0-0 oc bracing: 24-25,15-16. REACTIONS (size)

15=9-4-0, 16=9-4-0, 17=9-4-0, 18=9-4-0, 19=9-4-0, 25=0-3-8

Max Horiz 25=-9 (LC 6)

Max Uplift 15=-140 (LC 8), 17=-34 (LC 8),

18=-217 (LC 6), 19=-202 (LC 7),

25=-29 (LC 7)

Max Grav 15=201 (LC 17), 16=230 (LC 13),

17=244 (LC 17), 18=222 (LC 17), 19=946 (LC 4), 25=449 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

BOT CHORD

1-25=-29/0, 14-15=-29/0, 1-2=-197/197,

2-3=-930/147, 3-4=-1057/0, 4-5=-1203/278, 5-6=-1336/475, 6-7=-719/618, 7-8=-501/868,

8-10=-368/483, 10-11=-162/187, 11-12=-214/238, 12-13=-181/199,

13-14=-206/206

24-25=-124/635, 22-24=-207/1164,

21-22=-278/1203, 20-21=-500/1022, 19-20=-756/562, 18-19=-957/659, 17-18=-331/311, 16-17=-195/209,

15-16=-177/209

WEBS 4-22=-142/118, 5-21=-263/85, 8-19=-630/411,

13-15=-280/246, 13-16=-329/222, 12-16=-309/245, 12-17=-322/250, 11-17=-56/0, 10-17=-378/371, 10-18=-461/330, 8-18=-629/807,

2-25=-686/61, 2-24=-76/421, 3-24=-387/140,

3-22=-285/308, 6-21=-207/610,

6-20=-644/90, 7-20=-33/603, 7-19=-552/25

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 25, 15, 17, and 19. This connection is for uplift only and does not consider lateral forces.
- This truss has been designed for a total drag load of 150 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 20-7-8 for 150.0 plf.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BFFORF USF Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

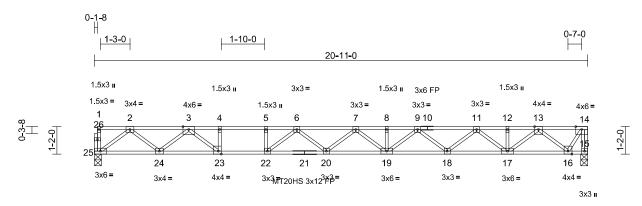
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	
	2F6	Floor	8	1	Job Reference (optional)	I71823470

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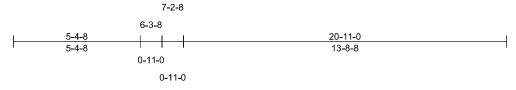


Plate Offsets (X, Y): [23:0-1-8,Edge]

Landing	(nof)	Cuasina	1-4-0	csı		DEFL	i.a.	(loo)	l/defl	1 /d	PLATES	GRIP
Loading	(psf)	Spacing	1-4-0	l coi		DEFL	in	(loc)	/den	L/u	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.44	20-22	>562	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.61	20-22	>408	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 107 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:48.9

TOP CHORD 2x4 SP SS(flat) *Except* 10-14:2x4 SP No.2

(flat)

2x4 SP SS(flat) BOT CHORD 2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat)

BRACING

TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 15=0-3-8, 25=0-3-8 Max Grav 15=758 (LC 1), 25=754 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-25=-21/4, 14-15=-758/0, 1-2=-1/0,

2-3=-1601/0, 3-4=-3114/0, 4-5=-3114/0, 5-6=-3114/0, 6-7=-3748/0, 7-8=-3605/0, 8-9=-3605/0, 9-11=-3015/0, 11-12=-1995/0,

12-13=-1995/0, 13-14=-479/0

BOT CHORD 24-25=0/949, 23-24=0/2314, 22-23=0/3114,

20-22=0/3630, 19-20=0/3755, 18-19=0/3395, 17-18=0/2609, 16-17=0/1305, 15-16=0/0

4-23=-461/0, 5-22=-5/279, 2-25=-1190/0,

2-24=0/849, 3-24=-927/0, 3-23=0/1090, 6-22=-754/0, 6-20=-52/215, 7-20=-57/106, 7-19=-190/0, 8-19=-53/0, 9-19=0/268, 9-18=-495/0, 11-18=0/529, 11-17=-783/0,

12-17=-46/0, 13-17=0/881, 13-16=-1076/0, 14-16=0/851

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All bearings are assumed to be SP SS.

Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



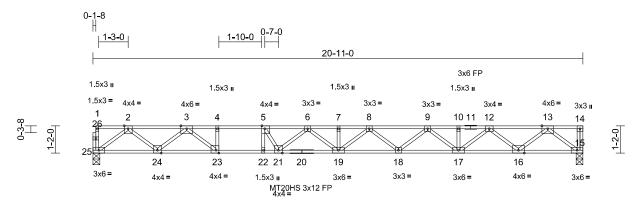
March 5,2025



I	Job	Truss	Truss Type	s Type Qty Ply Drayton Re		Drayton Rev 2-El. 1,2-Floor	
		2F6A	Floor	4	1	Job Reference (optional)	71823471

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Scale = 1:49.3

Plate Offsets (X, Y):	[5:0-1-8,Edge],	[23:0-1-8,Edge]
-----------------------	-----------------	-----------------

Loading	(psf)	Spacing	1-7-3	csi		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.48	19-21	>522		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.65	19-21	>379		MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	l wB	0.60	Horz(CT)	0.08	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		, ,					Weight: 107 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) *Except* 11-14:2x4 SP No.2

(flat)

BOT CHORD 2x4 SP DSS(flat) *Except* 20-15:2x4 SP SS

(flat)

WEBS 2x4 SP No 3(flat)

OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

2-2-0 oc bracing: 22-23.

REACTIONS (size) 15=0-3-8, 25=0-3-8

Max Grav 15=909 (LC 1), 25=904 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-25=-25/3, 14-15=-32/0, 1-2=-2/0,

2-3=-1920/0, 3-4=-3712/0, 4-5=-3712/0, 5-6=-4142/0, 6-7=-4475/0, 7-8=-4475/0, 8-9=-4185/0, 9-10=-3374/0, 10-12=-3374/0,

12-13=-1968/0, 13-14=0/0

BOT CHORD 24-25=0/1135, 23-24=0/2785, 22-23=0/3712,

21-22=0/3712, 19-21=0/4486, 18-19=0/4441, 17-18=0/3899, 16-17=0/2766, 15-16=0/1143

WFBS 2-25=-1423/0, 2-24=0/1021, 3-24=-1126/0,

3-23=0/1261, 13-15=-1434/0, 13-16=0/1073, 12-16=-1038/0, 12-17=0/777, 10-17=-48/0, 9-17=-671/0, 9-18=0/372, 8-18=-334/0, 6-19=-112/42, 6-21=-530/30, 5-21=0/930, 8-19=-26/149, 7-19=-11/0, 4-23=-466/0,

5-22=-634/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Bearings are assumed to be: Joint 25 SP DSS, Joint 15 SP SS.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



March 5,2025

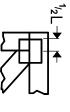
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

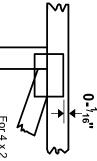


Symbols

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- $\frac{1}{16}$ " 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 × 4

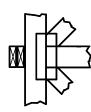
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



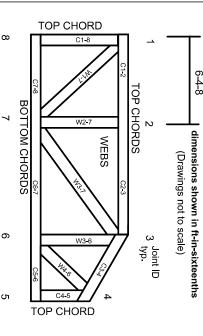
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards:

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, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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.

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MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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

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- 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.
- 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.
- 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.
- 15. 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.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.