

Trenco

818 Soundside Rd Edenton, NC 27932

RE: Malbec Rev 1

Site Information:

Project Customer: DRB Raleigh Project Name:

Lot/Block:

Subdivision: DRB Raleigh

Model: Address:

City:

State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014

Wind Code: ASCE 7-16 Wind Speed: 115 mph Roof Load: 50.0 psf

Mean Roof Height (feet): 25

Design Program: MiTek 20/20 8.8

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

Floor Load: N/A psf

Exposure Category: C

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(s) identification designs comply with ANSI/TD14. 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.



February 28,2025

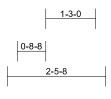
1 of 1

Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FG03	Floor Girder	1	1	Job Reference (optional)	

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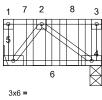
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THA422 3x3 =

3x3 ıı 3х3 п

THA422



3x6 =

Scale = 1:28

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	0.49	Vert(LL)	-0.07	4-5	>377	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.07	4-5	>359	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 17 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) **WEBS**

BRACING

Structural wood sheathing directly applied or TOP CHORD 2-5-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 4=0-3-8, 5= Mechanical Max Grav 4=538 (LC 6), 5=652 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-250/47, 3-4=-292/0, 1-2=0/0, 2-3=0/0

BOT CHORD 4-5=0/440

WEBS 2-4=-552/0, 2-5=-705/0

NOTES

- Bearings are assumed to be: , Joint 4 SP No.2 . 1)
- Refer to girder(s) for truss to truss connections.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.
 Use Simpson Strong-Tie THA422 (Single Chord Girder)
- or equivalent at 0-10-12 from the left end to connect truss(es) to front face of top chord.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 1-8-12 from the left end to connect truss (es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft) Vert: 4-5=-7, 1-3=-67 Concentrated Loads (lb) Vert: 2=-621 (F), 8=-222 (B)

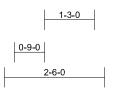
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February 28,2025



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FG01	Floor Girder	1	1	I71683374 Job Reference (optional)	

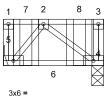
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THA422

THA422 3x3 =

3x3 II 3x3 II



3x6 =

Scale = 1:28

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.07	4-5	>363	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.08	4-5	>346	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 17 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) **WEBS**

BRACING

Structural wood sheathing directly applied or TOP CHORD 2-6-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 4=0-3-8, 5= Mechanical Max Grav 4=558 (LC 1), 5=577 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-296/0, 3-4=-332/0, 1-2=0/0, 2-3=0/0

BOT CHORD 4-5=0/347

WEBS 2-4=-435/0, 2-5=-539/0

NOTES

- Bearings are assumed to be: , Joint 4 SP No.2 . 1)
- Refer to girder(s) for truss to truss connections.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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. Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 1-4-0 oc max. starting at 0-6-12 from the left end to 1-10-12 to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-5=-7, 1-3=-67

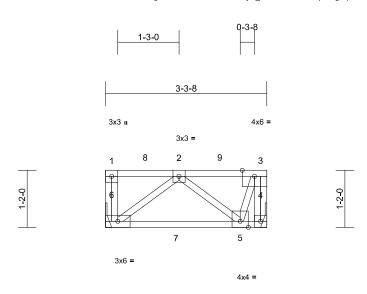
Concentrated Loads (lb) Vert: 7=-486 (F), 8=-484 (F)





Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT10	Floor	1	1	Job Reference (optional)	1683375

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3x3 II

Scale = 1:22.9

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.07	`5 - 6	>561	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.87	Vert(CT)	-0.07	5-6	>520	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 21 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) **WEBS**

BRACING

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

REACTIONS (size) 4= Mechanical, 6= Mechanical Max Grav 4=837 (LC 6), 6=866 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-393/0, 3-4=-944/0, 1-2=0/0, 2-3=-301/0

BOT CHORD 5-6=0/794, 4-5=0/0

WEBS 2-6=-996/0, 2-5=-771/0, 3-5=0/809

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 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.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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

Vert: 2=-300

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (Ib/ft) Vert: 4-6=-7, 1-3=-342 Concentrated Loads (lb)

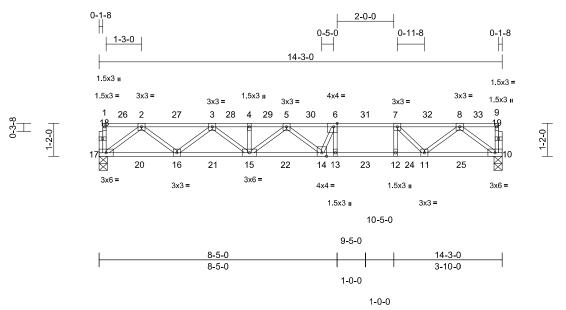
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February 28,2025



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT09	Floor	6	1	I7168. Job Reference (optional)	3376

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Scale = 1:39.6 Plate Offsets (X, Y): [6:0-1-8,Edge]

Loading Spacing 1-4-0 CSI **DEFL** L/d **PLATES GRIP** (psf) in (loc) l/defl TCLL 40.0 1.00 Vert(LL) -0.14 13-14 >999 480 244/190 Plate Grip DOL TC 0.58 MT20 TCDL Lumber DOL ВС 0.59 Vert(CT) -0.20 13-14 360 10.0 1.00 >861 BCLL Rep Stress Incr YES WB 0.27 Horz(CT) 0.02 0.0 10 n/a n/a Weight: 73 lb BCDL IRC2021/TPI2014 Matrix-S FT = 20%F, 12%E 5.0 Code

LUMBER TOP CHORD LOAD CASE(S) Standard

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

REACTIONS (size)

10=0-3-8, 17=0-3-8 Max Grav 10=509 (LC 1), 17=509 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-17=-258/38, 9-10=-263/37, 1-2=-15/2, 2-3=-1028/0, 3-4=-1600/0, 4-5=-1600/0, 5-6=-1667/0, 6-7=-1509/0, 7-8=-1042/0, TOP CHORD

BOT CHORD 16-17=0/632, 15-16=0/1400, 14-15=0/1738,

13-14=0/1509, 12-13=0/1509, 11-12=0/1509,

10-11=0/602

WEBS 6-13=-544/71, 7-12=-62/309, 8-10=-752/0,

8-11=0/573, 7-11=-668/20, 2-17=-791/0, 2-16=0/516, 3-16=-484/0, 3-15=-96/342, 4-15=-240/74, 5-15=-326/110

5-14=-250/149, 6-14=-101/679

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All bearings are assumed to be SP SS.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.

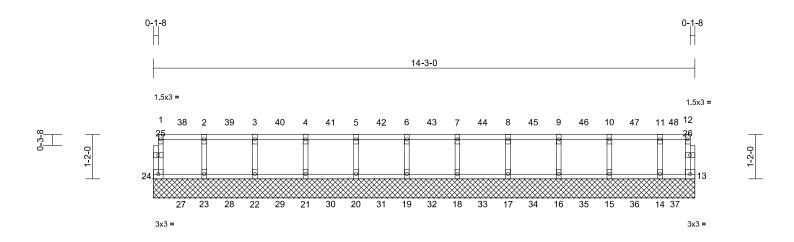


February 28,2025



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT09GE	Floor Supported Gable	1	1	I716 Job Reference (optional)	683377

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Scale = 1:29.5

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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 61 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) **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 6-0-0 oc bracing.

REACTIONS (size) 13=14-3-0, 14=14-3-0, 15=14-3-0, 16=14-3-0, 17=14-3-0, 18=14-3-0, 19=14-3-0, 20=14-3-0, 21=14-3-0, 22=14-3-0, 23=14-3-0, 24=14-3-0

13=-43 (LC 37), 14=-19 (LC 28), Max Uplift 15=-5 (LC 35), 16=-6 (LC 34), 17=-5 (LC 33), 18=-6 (LC 32), 19=-6 (LC 34), 20=-6 (LC 33), 21=-6 (LC 32), 22=-6 (LC 31),

23=-7 (LC 30), 24=-19 (LC 29) Max Grav 13=259 (LC 50), 14=274 (LC 49) 15=281 (LC 48), 16=279 (LC 47), 17=280 (LC 46), 18=280 (LC 45),

19=280 (LC 44), 20=280 (LC 43), 21=280 (LC 42), 22=280 (LC 41), 23=280 (LC 40), 24=263 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension

1-24=-256/24, 12-13=-250/48, 1-2=-24/6, 2-3=-24/6, 3-4=-24/6, 4-5=-24/6, 5-6=-24/6 TOP CHORD

6-7=-24/6, 7-8=-24/6, 8-9=-24/6, 9-10=-24/6,

10-11=-24/6, 11-12=-24/6 **BOT CHORD** $23\hbox{-}24\hbox{-}-6/24,\ 22\hbox{-}23\hbox{-}-6/24,\ 21\hbox{-}22\hbox{-}-6/24,$

20-21=-6/24, 19-20=-6/24, 18-19=-6/24, 17-18=-6/24, 16-17=-6/24, 15-16=-6/24,

14-15=-6/24, 13-14=-6/24

WEBS 2-23=-268/15, 3-22=-269/14, 4-21=-269/14,

5-20=-269/14, 6-19=-269/14, 7-18=-269/14, 8-17=-269/14, 9-16=-268/14, 10-15=-269/13,

11-14=-262/25

NOTES

- 1) 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 . 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 19 lb uplift at joint 24, 43 lb uplift at joint 13, 7 lb uplift at joint 23, 6 lb uplift at joint 22, 6 lb uplift at joint 21, 6 lb uplift at joint 20, 6 lb uplift at joint 19, 6 lb uplift at joint 18, 5 lb uplift at joint 17, 6 lb uplift at joint 16, 5 lb uplift at joint 15 and 19 lb
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



February 28,2025

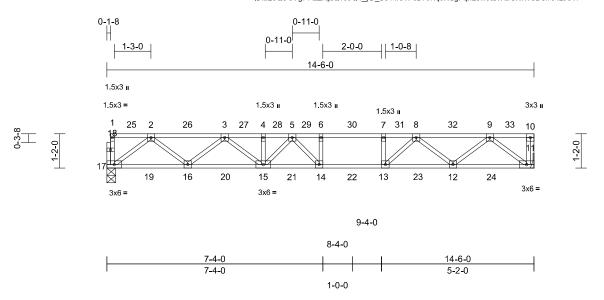
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFURE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org)



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT03	Floor	2	1	I71683 Job Reference (optional)	3378

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Scale = 1:38

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.15	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.21	14-15	>833	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 74 lb	FT = 20%F, 12%E

7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1-0-0

LUMBER TOP CHORD BOT CHORD

2x4 SP No.2(flat) 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 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=522 (LC 1), 17=518 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-258/38, 10-11=-258/34, 1-2=-15/2,

2-3=-1049/0, 3-4=-1656/0, 4-5=-1656/0, 5-6=-1716/0, 6-7=-1716/0, 7-8=-1716/0,

8-9=-1039/0, 9-10=0/0

BOT CHORD 16-17=0/643, 15-16=0/1437, 14-15=0/1746,

13-14=0/1716, 12-13=0/1437, 11-12=0/644 WEBS

6-14=-160/194, 7-13=-249/78, 2-17=-805/0, 2-16=0/528, 3-16=-505/0, 3-15=-87/349,

9-11=-808/0, 9-12=0/514, 8-12=-518/0,

8-13=-108/497, 4-15=-230/87

5-15=-238/138, 5-14=-328/242

NOTES

- Unbalanced floor live loads have been considered for 1)
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 17 SP No.2 . Refer to girder(s) for truss to truss connections. 4)
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.

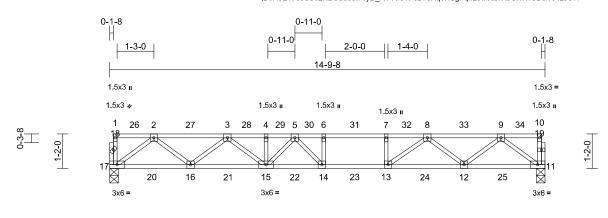


February 28,2025



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT04	Floor	4	1	Job Reference (optional)	1683379

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:04 $ID: fH9ETPIOaC02NBOeueut74yD_R4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$



9-4-0 8-4-0 14-9-8 7-4-0 5-5-8 1-0-0

1-0-0

Scale = 1:38.1

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.16	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.21	14-15	>832	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

LOAD CASE(S) Standard

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

OTHERS 2x4 SP No.3(flat)

BRACING

LUMBER

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: 12-13.

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

Max Grav 11=529 (LC 1), 17=529 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-17=-258/38, 10-11=-257/38, 1-2=-15/2, 2-3=-1076/0, 3-4=-1708/0, 4-5=-1708/0, TOP CHORD

5-6=-1798/0, 6-7=-1798/0, 7-8=-1798/0,

8-9=-1067/0, 9-10=-15/2

BOT CHORD 16-17=0/657, 15-16=0/1476, 14-15=0/1809,

13-14=0/1798, 12-13=0/1473, 11-12=0/658 6-14=-168/187, 7-13=-225/73, 2-17=-823/0,

2-16=0/545, 3-16=-521/0, 3-15=-81/357,

4-15=-230/86, 5-15=-245/132, 5-14=-318/262, 9-11=-824/0, 9-12=0/533,

8-12=-528/0, 8-13=-90/516

NOTES

WEBS

- 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.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.



February 28,2025

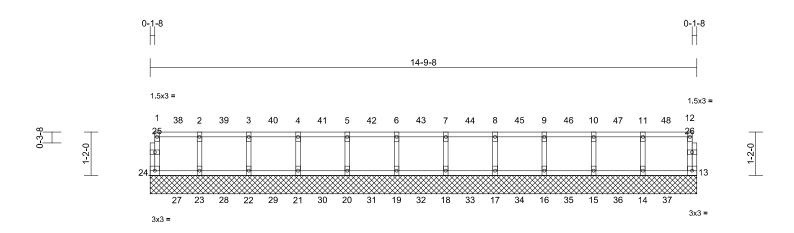
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFURE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org)



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT04GE	Floor Supported Gable	1	1	I71683380 Job Reference (optional)	

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Scale = 1:30.3

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 62 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) 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 6-0-0 oc bracing.

REACTIONS (size)

13=14-9-8, 14=14-9-8, 15=14-9-8, 16=14-9-8, 17=14-9-8, 18=14-9-8, 19=14-9-8, 20=14-9-8, 21=14-9-8, 22=14-9-8, 23=14-9-8, 24=14-9-8 13=-13 (LC 37), 14=-4 (LC 36), Max Uplift 15=-7 (LC 38), 16=-6 (LC 37), 17=-6 (LC 36), 18=-6 (LC 35), 19=-6 (LC 34), 20=-6 (LC 33), 21=-6 (LC 32), 22=-5 (LC 31),

23=-8 (LC 30), 24=-17 (LC 29) Max Grav 13=265 (LC 50), 14=281 (LC 49), 15=279 (LC 48), 16=280 (LC 47), 17=280 (LC 46), 18=280 (LC 45), 19=280 (LC 44), 20=280 (LC 43), 21=280 (LC 42), 22=280 (LC 41),

23=279 (LC 40), 24=264 (LC 39)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD

1-24=-256/23, 12-13=-257/18, 1-2=-25/4, 2-3=-25/4, 3-4=-25/4, 4-5=-25/4, 5-6=-25/4 6-7=-25/4, 7-8=-25/4, 8-9=-25/4, 9-10=-25/4,

10-11=-25/4, 11-12=-25/4 **BOT CHORD**

23-24=-4/25, 22-23=-4/25, 21-22=-4/25, 20-21=-4/25, 19-20=-4/25, 18-19=-4/25, 17-18=-4/25, 16-17=-4/25, 15-16=-4/25,

14-15=-4/25, 13-14=-4/25

WEBS 2-23=-268/16, 3-22=-269/13, 4-21=-269/14, 5-20=-269/14, 6-19=-269/14, 7-18=-269/14, 8-17=-269/14, 9-16=-269/14, 10-15=-268/14,

11-14=-269/13

NOTES

- 1) 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 . 5) 6)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 24, 13 lb uplift at joint 13, 8 lb uplift at joint 23, 5 lb uplift at joint 22, 6 lb uplift at joint 21, 6 lb uplift at joint 20, 6 lb uplift at joint 19, 6 lb uplift at joint 18, 6 lb uplift at joint 17, 6 lb uplift at joint 16, 7 lb uplift at joint 15 and 4 lb
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



February 28,2025

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



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT08	Floor	1	1	I7168 Job Reference (optional)	33381

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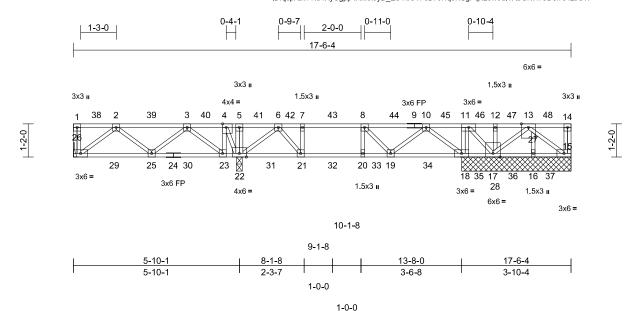


Plate Offsets (X, Y): [4:0-1-8,Edge]

riate enecte (x, r	/. [1.0 0,Eago]												
Loading	(psf)	Spacing	1-10-8	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	_
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.08	25-26	>827	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.09	25-26	>776	360			
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	18	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		l ' '					Weight: 97 lb	FT = 20%F, 12%E	

LU	М	В	Ε	R	

Scale = 1:39.5

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 6-0-0 oc

bracing, Except:

10-0-0 oc bracing: 20-21,19-20.

15=3-10-4, 16=3-10-4, 18=3-10-4, 22=0-2-7, 26= Mechanical **REACTIONS** (size)

Max Uplift 15=-101 (LC 27), 16=-66 (LC 27) 15=249 (LC 52), 16=260 (LC 51), Max Grav

18=839 (LC 1), 22=686 (LC 1),

26=322 (LC 42)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-260/33, 14-15=-263/5, 1-2=0/0, 2-3=-400/65, 3-4=-134/305, 4-5=-104/368,

5-6=-104/369, 6-7=-389/0, 7-8=-389/0, 8-10=-237/0, 10-11=0/663, 11-12=-48/431,

12-13=-48/431, 13-14=0/0

BOT CHORD 25-26=-7/313, 23-25=-157/326, 22-23=-305/134, 21-22=-17/237

20-21=0/389, 19-20=0/389, 18-19=-228/75,

17-18=-663/0, 16-17=-167/103,

15-16=-167/103

5-22=-278/51, 7-21=-267/7, 8-20=-87/223,

11-18=-410/0, 6-22=-531/0, 6-21=0/374, 10-18=-679/0, 10-19=0/469, 8-19=-331/73, 2-26=-392/9, 2-25=-88/214, 3-25=-83/223, 3-23=-399/0, 4-23=-24/421, 4-22=-466/21,

13-27=-188/257, 15-27=-123/204, 17-28=-398/19, 13-28=-342/29, 11-17=0/419,

16-27=-93/78, 12-28=-252/28

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- 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.
- Bearings are assumed to be: , Joint 22 SP No.2 , Joint 5) 16 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 16. This connection is for uplift only and does not consider lateral forces.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 10) 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.
- 11) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 28,2025

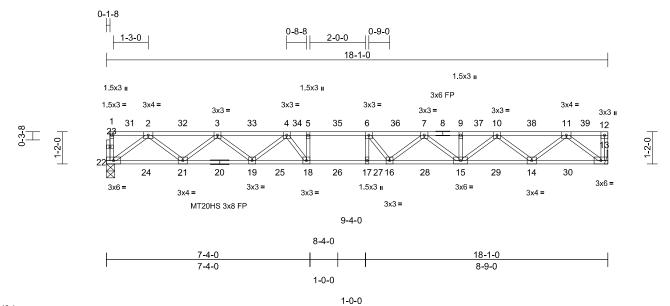
NOTES

WEBS



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT02	Floor	6	1	I71683382 Job Reference (optional)	

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:03



Scale = 1:40.4

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.22	16-17	>968	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.30	16-17	>705	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%F, 12%E

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_U	IVI	D	ᆮ	т.

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 20-13:2x4 SP SS

(flat)

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 13= Mechanical, 22=0-3-8

Max Grav 13=654 (LC 1), 22=650 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-22=-259/41, 12-13=-258/35, 1-2=-16/2, 2-3=-1386/0, 3-4=-2255/0, 4-5=-2749/0, TOP CHORD

5-6=-2749/0, 6-7=-2723/0, 7-9=-2299/0, 9-10=-2299/0, 10-11=-1381/0, 11-12=0/0

BOT CHORD 21-22=0/814, 19-21=0/1928, 18-19=0/2593

17-18=0/2749, 16-17=0/2749, 15-16=0/2604, 14-15=0/1921, 13-14=0/817

WEBS 5-18=-255/161, 6-17=-250/174,

2-22=-1019/0, 2-21=0/744, 3-21=-707/0 3-19=0/426, 4-19=-439/56, 4-18=-239/469, 11-13=-1025/0, 11-14=0/733, 10-14=-703/0, 10-15=-18/482, 9-15=-243/71, 7-15=-444/23,

7-16=-127/287, 6-16=-288/369

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 22 SP No.2 . 4) Refer to girder(s) for truss to truss connections.
- 5) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid

panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

- 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



February 28,2025

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

NARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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 properly general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 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	Malbec Rev 1	
	FG02	Floor Girder	1	1	I71683383 Job Reference (optional)	3

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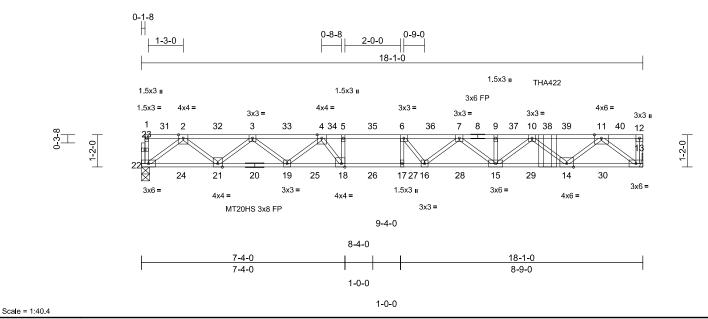


Plate Offsets (X, Y): [18:0-1-8,Edge]

		i	-	1								-
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	0.66	Vert(LL)	-0.29	16-17	>751	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	вс	0.94	Vert(CT)	-0.39	16-17	>544	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		l ` ´					Weight: 92 lb	FT = 20%F, 12%E

This truss has been designed for a moving concentrated

LUMBER

TOP CHORD 2x4 SP SS(flat) **BOT CHORD**

2x4 SP No.2(flat) *Except* 20-13:2x4 SP SS

WEBS 2x4 SP No.3(flat)

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.

13= Mechanical, 22=0-3-8 REACTIONS (size) Max Grav 13=1087 (LC 1), 22=749 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-22=-259/40, 12-13=-248/45, 1-2=-16/2, 2-3=-1636/0, 3-4=-2728/0, 4-5=-3525/0,

5-6=-3525/0, 6-7=-3661/0, 7-9=-3460/0,

9-10=-3460/0, 10-11=-2406/0, 11-12=0/0 21-22=0/944, 19-21=0/2293, 18-19=0/3209 BOT CHORD 17-18=0/3525, 16-17=0/3525, 15-16=0/3698,

14-15=0/3354, 13-14=0/1436

WEBS 5-18=-414/129, 6-17=-301/141

2-22=-1182/0, 2-21=0/901, 3-21=-855/0, 3-19=0/566, 4-19=-627/0, 4-18=-164/761,

11-13=-1801/0, 11-14=0/1263, 10-14=-1234/0, 10-15=-128/339, 9-15=-195/137, 7-15=-420/48

7-16=-212/234, 6-16=-207/441

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 22 SP No.2. Refer to girder(s) for truss to truss connections.

- load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. 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.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 14-7-12 from the left end to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber. 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1 00

Uniform Loads (lb/ft) Vert: 13-22=-7, 1-12=-67 Concentrated Loads (lb) Vert: 38=-532 (F)



February 28,2025

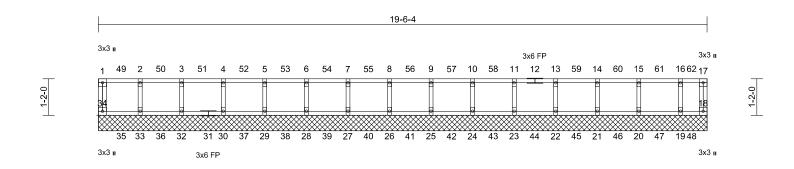
stors and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT05GE	Floor Supported Gable	1	1	I716833 Job Reference (optional)	384

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Page: 1



Scale = 1:35.9

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 83 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

BOT CHORD

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

REACTIONS (size)

18=19-6-4, 19=19-6-4, 20=19-6-4, 21=19-6-4, 22=19-6-4, 23=19-6-4, 24=19-6-4, 25=19-6-4, 26=19-6-4, 27=19-6-4, 28=19-6-4, 32=19-6-4, 33=19-6-4, 34=19-6-4, 34=19-6-4

Max Uplift 18–48 (LC 47), 19=-21 (LC 4), 20=-5 (LC 45), 21=-6 (LC 44), 22=-5 (LC 43), 23=-6 (LC 42), 24=-6 (LC 41), 25=-6 (LC 41), 26=-6 (LC 40), 27=-6 (LC 41), 28=-6 (LC 40), 29=-8 (LC 36), 30=-6 (LC 38), 32=-6 (LC 37), 33=-6 (LC 6), 34=-18 (LC 35)

Max Grav 18=259 (LC 64), 19=274 (LC 63), 20=281 (LC 62), 21=279 (LC 61), 22=280 (LC 60), 23=280 (LC 59), 24=280 (LC 58), 25=280 (LC 57), 26=280 (LC 55), 28=280 (LC 54), 29=280 (LC 53), 30=280 (LC 52), 32=280 (LC 51), 33=280 (LC 50), 34=264 (LC 49)

FORCES

(lb) - Maximum Compression/Maximum Tension

14-15=-24/6, 15-16=-24/6, 16-17=-24/6

TOP CHORD 1-34=-260/23, 17-18=-255/52, 1-2=-24/6, 2-3=-24/6, 3-4=-24/6, 4-5=-24/6, 5-6=-24/6, 6-7=-24/6, 7-8=-24/6, 8-9=-24/6, 9-10=-24/6, 10-11=-24/6, 11-13=-24/6, 13-14=-24/6,

BOT CHORD 33-34=-6/24, 32-33=-6/24, 30-32=-6/24, 29-30=-6/24, 28-29=-6/24, 27-28=-6/24,

29-30=-6/24, 28-29=-6/24, 27-28=-6/24, 26-27=-6/24, 25-26=-6/24, 24-25=-6/24, 23-24=-6/24, 29-21=-6/24, 18-19=-6/24, 29-21=-6/24, 19-20=-6/24, 18-19=-6/24, 29-21=-6/24, 29-21=-6/24, 29-2-269/14, 4-30=-269/14, 5-29=-269/14, 6-28=-269/14, 7-27=-269/14, 5-29=-269/14, 6-28=-269/14, 7-27=-269/14, 5-29=-269/14, 6-28=-269/14, 7-27=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-29=-269/14, 5-2

8-26=-269/14, 9-25=-269/14, 10-24=-269/14, 11-23=-269/14, 13-22=-269/14, 14-21=-268/14, 15-20=-269/13,

16-19=-261/27

NOTES

WFBS

- 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).
- 4) Gable studs spaced at 1-4-0 oc
- All bearings are assumed to be SP No.2.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 34, 18, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, and 19. This connection is for uplift only and does not consider lateral forces.
- 7) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 8) 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



February 28,2025

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

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

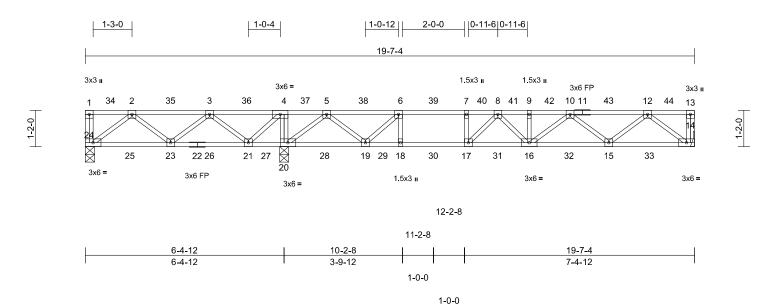
Design valid for use only with MITEk® connectors. This design is based only upon parameters and properly incorporate this design into the overall a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI 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	Malbec Rev 1
	FT05	Floor	4	1	Job Reference (optional)

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:04

Page: 1



Scale = 1:36.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.16	16-17	>963	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.22	16-17	>726	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 102 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) WEBS

BRACING

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

Rigid ceiling directly applied or 6-0-0 oc **BOT CHORD** bracing.

REACTIONS (size) 14= Mechanical, 20=0-3-8, 24=0-3-8

Max Uplift 24=-36 (LC 28)

Max Grav 14=451 (LC 4), 20=813 (LC 1),

24=297 (LC 43)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-24=-258/38, 13-14=-258/35, 1-2=0/0, 2-3=-388/156, 3-4=-150/430, 4-5=-79/581, 5-6=-668/0, 6-7=-1148/0, 7-8=-1148/0, 8-9=-1307/0, 9-10=-1307/0, 10-12=-868/0,

12-13=0/0

BOT CHORD 23-24=-63/292, 21-23=-273/340,

20-21=-581/79, 19-20=-140/337

18-19=0/1148, 17-18=0/1148, 16-17=0/1321,

15-16=0/1175, 14-15=0/548

4-20=-355/0, 6-18=-23/290, 7-17=-107/194,

2-24=-367/80, 2-23=-121/217, 3-23=-105/208, 3-21=-344/0, 4-21=0/434, 5-20=-720/0, 5-19=0/575, 6-19=-669/0 12-14=-688/0, 12-15=0/439, 10-15=-400/0,

10-16=-124/316, 9-16=-227/90, 8-17=-394/60, 8-16=-202/181

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated. Bearings are assumed to be: Joint 24 SP No.2 , Joint 20 SP No.2
- Refer to girder(s) for truss to truss connections.

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24. This connection is for uplift only and does not consider lateral forces.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



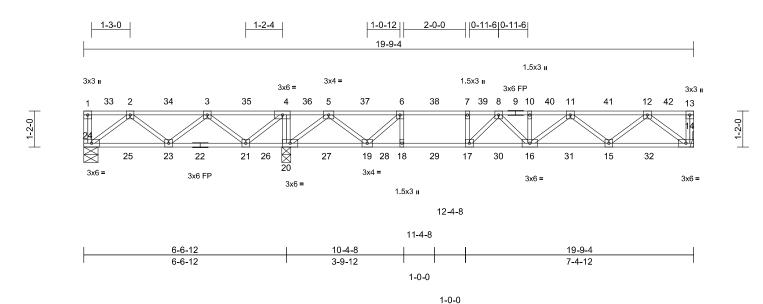
February 28,2025



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT05A	Floor	4	1	I71683386 Job Reference (optional)	

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:04

Page: 1



Scale = 1:36.3

Loading	(psf)	Spacing	1-8-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.16	16-17	>981	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.22	16-17	>722	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 22-14:2x4 SP SS

(flat)

2x4 SP No.3(flat)

WEBS 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 6-0-0 oc bracing.

REACTIONS (size) 14= Mechanical, 20=0-3-8, 24=0-5-8

Max Uplift 24=-19 (LC 28)

14=564 (LC 4), 20=1024 (LC 1), Max Grav

24=310 (LC 43)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-24=-260/37, 13-14=-259/34, 1-2=0/0,

2-3=-411/129, 3-4=-171/410, 4-5=-44/597, 5-6=-829/0, 6-7=-1438/0, 7-8=-1438/0,

8-10=-1636/0, 10-11=-1636/0, 11-12=-1084/0,

12-13=0/0

BOT CHORD 23-24=-45/307, 21-23=-244/367,

20-21=-597/44, 19-20=-120/341, 18-19=0/1438, 17-18=0/1438, 16-17=0/1645,

15-16=0/1470, 14-15=0/685

WEBS 4-20=-452/0, 6-18=-3/316, 7-17=-115/176,

2-24=-385/57, 2-23=-110/226, 3-23=-107/207, 3-21=-425/0, 4-21=0/449, 5-20=-902/0, 5-19=0/708, 6-19=-851/0, 12-14=-860/0, 12-15=0/519, 11-15=-503/0,

11-16=-111/329, 10-16=-229/89,

8-17=-398/50, 8-16=-188/190

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 24 SP No.2 , Joint 20 3) SP SS.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.
- 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 28,2025

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

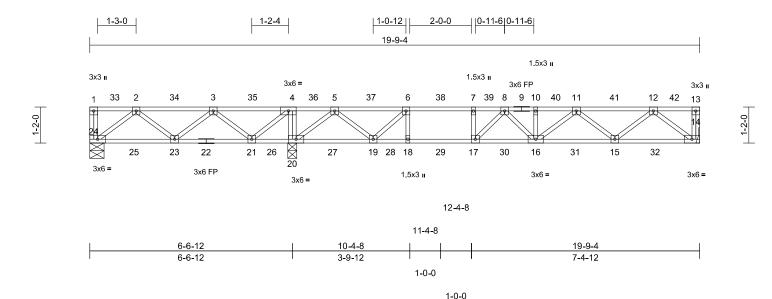
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT05B	Floor	1	1	I71683387 Job Reference (optional)	

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:05

Page: 1



Scale = 1:36.3

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	тс	0.58	Vert(LL)	-0.16	16-17	>963	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.22	16-17	>726	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

BOT CHORD

REACTIONS (size) 14= Mechanical, 20=0-3-8, 24=0-5-8

Max Uplift 24=-32 (LC 28)

Max Grav 14=451 (LC 4), 20=819 (LC 1),

24=299 (LC 43)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-24=-258/38, 13-14=-258/35, 1-2=0/0, 2-3=-400/145, 3-4=-182/409, 4-5=-78/579, 5-6=-668/0, 6-7=-1149/0, 7-8=-1149/0, 8-10=-1307/0, 10-11=-1307/0, 11-12=-868/0,

12-13=0/0

BOT CHORD 23-24=-58/297, 21-23=-256/362,

20-21=-579/78, 19-20=-138/335

18-19=0/1149, 17-18=0/1149, 16-17=0/1321,

15-16=0/1175, 14-15=0/549

4-20=-364/0, 6-18=-25/290, 7-17=-107/195, **WEBS**

2-24=-373/72, 2-23=-113/225, 3-23=-114/200, 3-21=-340/0, 4-21=0/425, 5-20=-720/0, 5-19=0/576, 6-19=-670/0, 12-14=-688/0, 12-15=0/439, 11-15=-400/0, 11-16=-124/316, 10-16=-227/90, 8-17=-390/60, 8-16=-202/181

- NOTES
- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated. Bearings are assumed to be: Joint 24 SP No.2 , Joint 20 SP No.2
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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

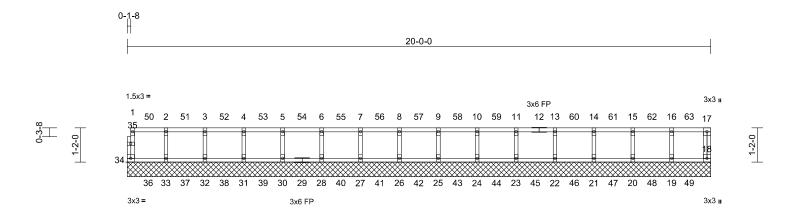


February 28,2025



Job	Truss	Truss Type	pe Qty Ply Malbec Rev 1			
	FT01GE	Floor Supported Gable	1	1	I7 Job Reference (optional)	'1683388

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Scale = 1:38.4

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	_	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 84 lb	FT = 20%F, 12%E

LUMBEK	
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.

REACTIONS (size) 18=20-0-0, 19=20-0-0, 20=20-0-0, 21=20-0-0, 22=20-0-0, 23=20-0-0, 24=20-0-0, 25=20-0-0, 26=20-0-0, 27=20-0-0, 28=20-0-0, 30=20-0-0, 31=20-0-0, 32=20-0-0, 33=20-0-0,

34=20-0-0

Max Uplift 18=-16 (LC 49), 19=-7 (LC 48), 20=-5 (LC 47), 21=-7 (LC 14), 22=-6 (LC 45), 23=-6 (LC 44), 24=-6 (LC 43), 25=-6 (LC 42), 26=-6 (LC 44), 27=-6 (LC 43), 28=-6 (LC 42), 30=-6 (LC 41), 31=-6 (LC 40), 32=-5 (LC 39),

33=-7 (LC 38), 34=-18 (LC 37) 18=264 (LC 66), 19=279 (LC 65) 20=280 (LC 64), 21=280 (LC 63), 22=280 (LC 62), 23=280 (LC 61), 24=280 (LC 60), 25=280 (LC 59), 26=280 (LC 58), 27=280 (LC 57), 28=280 (LC 56), 30=280 (LC 55), 31=280 (LC 54), 32=280 (LC 53), 33=279 (LC 52), 34=263 (LC 51)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD

1-34=-256/23, 17-18=-260/22, 1-2=-21/4, 2-3=-21/4, 3-4=-21/4, 4-5=-21/4, 5-6=-21/4 6-7=-21/4, 7-8=-21/4, 8-9=-21/4, 9-10=-21/4, 10-11=-21/4, 11-13=-21/4, 13-14=-21/4, 14-15=-21/4, 15-16=-21/4, 16-17=-21/4

33-34=-4/21, 32-33=-4/21, 31-32=-4/21, 30-31=-4/21, 28-30=-4/21, 27-28=-4/21, **BOT CHORD**

26-27=-4/21, 25-26=-4/21, 24-25=-4/21, 23-24=-4/21, 22-23=-4/21, 21-22=-4/21, 20-21=-4/21, 19-20=-4/21, 18-19=-4/21

2-33=-268/16, 3-32=-269/14, 4-31=-269/14, 5-30=-269/14, 6-28=-269/14, 7-27=-269/14, WFBS 8-26=-269/14, 9-25=-269/14, 10-24=-269/14,

11-23=-269/14, 13-22=-269/14, 14-21=-269/16, 15-20=-269/14, 16-19=-268/16

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 34, 16 lb uplift at joint 18, 7 lb uplift at joint 33, 5 lb uplift at joint 32, 6 lb uplift at joint 31, 6 lb uplift at joint 30, 6 lb uplift at joint 28, 6 lb uplift at joint 27, 6 lb uplift at joint 26, 6 lb uplift at joint 25, 6 lb uplift at joint 24, 6 lb uplift at joint 24, 6 lb uplift at joint 27, 7 lb uplift at joint 21, 5 lb uplift at joint 20 and 7 lb uplift at joint 19.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



February 28,2025

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

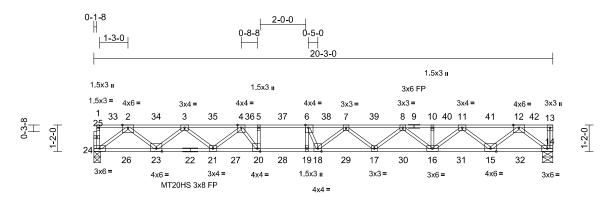
■ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/20/23 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI 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	Malbec Rev 1	
	FT01A	Floor	4	1	I716833 Job Reference (optional)	;89

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:02



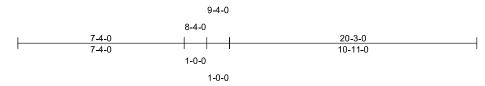


Plate Offsets (X, Y): [6:0-1-8,Edge], [20:0-1-8,Edge]

Loading	(psf)	Spacing	1-8-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	_
TCLL	40.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.39	18-19	>608	480	MT20HS	187/143	
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.54	18-19	>442	360	MT20	244/190	
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.08	14	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		l ' '					Weight: 103 lb	FT = 20%F, 12%E	

LUMBER

Scale = 1:49.4

TOP CHORD 2x4 SP SS(flat) **BOT CHORD** 2x4 SP SS(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=0-5-8, 24=0-3-8

Max Grav 14=917 (LC 1), 24=911 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-24=-260/39, 13-14=-260/33, 1-2=-16/2, 2-3=-1983/0, 3-4=-3295/0, 4-5=-4209/0, 5-6=-4209/0, 6-7=-4338/0, 7-8=-4137/0, TOP CHORD

8-10=-3369/0, 10-11=-3369/0, 11-12=-1974/0,

12-13=0/0

23-24=0/1148, 21-23=0/2777, 20-21=0/3857, 19-20=0/4209, 18-19=0/4209, 17-18=0/4384, **BOT CHORD**

16-17=0/3869, 15-16=0/2769, 14-15=0/1152

WEBS 5-20=-451/110, 6-19=-463/140,

2-24=-1438/0, 2-23=0/1087, 3-23=-1034/0, 3-21=0/674, 4-21=-732/0, 4-20=-129/825, 12-14=-1445/0, 12-15=0/1071,

11-15=-1034/0, 11-16=0/766, 10-16=-261/58, 8-16=-638/0, 8-17=-20/364, 7-17=-322/89,

7-18=-265/268, 6-18=-217/616

- 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.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

- 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



February 28,2025

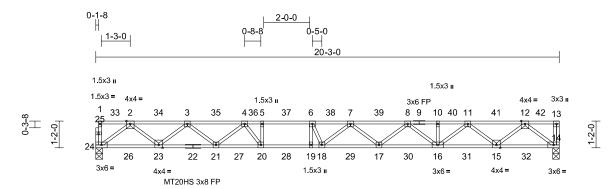
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

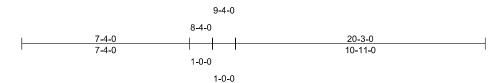
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT01	Floor	4	1	Job Reference (optional)	

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:01





Scale = 1:48.9

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	0.77	Vert(LL)	-0.36	18-19	>671	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.49	18-19	>488	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 103 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) WEBS **OTHERS** 2x4 SP No.3(flat)

BRACING TOP CHORD

5-5-7 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 14=0-3-8, 24=0-3-8

Max Grav 14=733 (LC 1), 24=729 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-259/41, 13-14=-258/35, 1-2=-16/2,

2-3=-1587/0, 3-4=-2634/0, 4-5=-3365/0, 5-6=-3365/0, 6-7=-3475/0, 7-8=-3309/0, 8-10=-2693/0, 10-11=-2693/0, 11-12=-1580/0,

Structural wood sheathing directly applied or

12-13=0/0

BOT CHORD 23-24=0/919, 21-23=0/2221, 20-21=0/3091,

19-20=0/3365, 18-19=0/3365, 17-18=0/3506, 16-17=0/3096, 15-16=0/2216, 14-15=0/921

5-20=-328/124, 6-19=-480/139,

2-24=-1151/0, 2-23=0/869, 3-23=-825/0

3-21=0/538, 4-21=-594/3, 4-20=-162/643, 12-14=-1156/0, 12-15=0/857, 11-15=-828/0, 11-16=0/610, 10-16=-258/63, 8-16=-514/0,

8-17=-43/341, 7-17=-300/106,

7-18=-255/213, 6-18=-203/618

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP SS .
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

- 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



February 28,2025

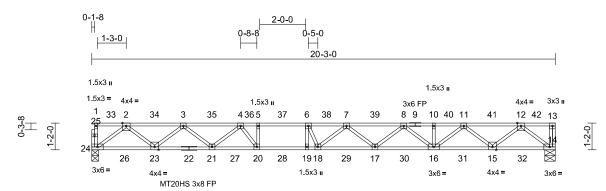
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

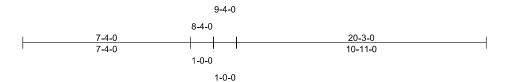
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Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT01B	Floor	1	1	Job Reference (optional)	1683391

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:02





Scale = 1:48.9

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	0.77	Vert(LL)	-0.36	18-19	>671	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.49	18-19	>488	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 103 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) WEBS **OTHERS** 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-7 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 14=0-5-8, 24=0-3-8

Max Grav 14=733 (LC 1), 24=729 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-259/41, 13-14=-258/35, 1-2=-16/2,

2-3=-1587/0, 3-4=-2634/0, 4-5=-3365/0, 5-6=-3365/0, 6-7=-3475/0, 7-8=-3309/0, 8-10=-2693/0, 10-11=-2693/0, 11-12=-1580/0,

12-13=0/0

BOT CHORD 23-24=0/919, 21-23=0/2221, 20-21=0/3091,

19-20=0/3365, 18-19=0/3365, 17-18=0/3506, 16-17=0/3096, 15-16=0/2216, 14-15=0/921

WEBS 5-20=-328/124, 6-19=-480/139,

2-24=-1151/0, 2-23=0/869, 3-23=-825/0

3-21=0/538, 4-21=-594/3, 4-20=-162/643, 12-14=-1156/0, 12-15=0/857, 11-15=-828/0, 11-16=0/610, 10-16=-258/63, 8-16=-514/0,

8-17=-43/341, 7-17=-300/106,

7-18=-255/213, 6-18=-203/618

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP SS .
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

- 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



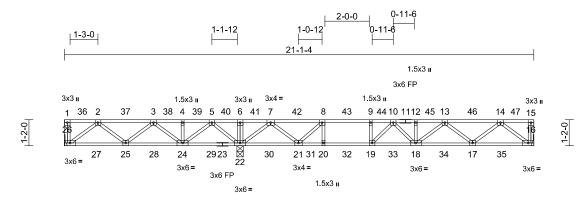
February 28,2025

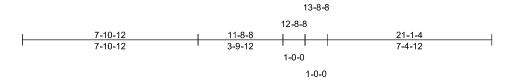
eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1
	FT06A	Floor	2	1	Job Reference (optional)

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:06 ID:5re3LN2aray4ANv91YIRq8yD_O6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:50.4

Loading	(psf)	Spacing	1-8-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.16	18-19	>972	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.22	18-19	>715	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 23-16:2x4 SP SS

WEBS 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.

REACTIONS (size)

16= Mechanical, 22=0-3-8, 26=

Mechanical

16=564 (LC 4), 22=1082 (LC 1), Max Grav

26=329 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-26=-259/34, 15-16=-259/34, 1-2=0/0,

2-3=-500/41, 3-4=-407/236, 4-5=-407/236, 5-6=-18/630, 6-7=-18/630, 7-8=-831/0. 8-9=-1439/0, 9-10=-1439/0, 10-12=-1637/0,

12-13=-1637/0, 13-14=-1084/0, 14-15=0/0

25-26=0/364, 24-25=-114/545, 22-24=-402/167 21-22=-108/319

20-21=0/1439, 19-20=0/1439, 18-19=0/1646, 17-18=0/1471, 16-17=0/685

WEBS 6-22=-282/41, 8-20=-9/316, 9-19=-114/178,

2-26=-457/0, 2-25=-56/280, 3-25=-173/152, 3-24=-308/56, 4-24=-264/56, 5-24=0/423, 5-22=-588/0. 7-22=-909/0. 7-21=0/714 8-21=-860/0, 14-16=-860/0, 14-17=0/519,

13-17=-503/0, 13-18=-113/326, 12-18=-229/89, 10-19=-403/48,

10-18=-185/193

NOTES

BOT CHORD

- Unbalanced floor live loads have been considered for
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 22 SP SS. Refer to girder(s) for truss to truss connections.

- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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



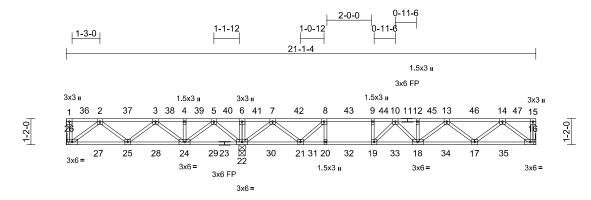
February 28,2025



Job	Truss	ss	Truss Type	Qty	Ply	Malbec Rev 1	
	FT06	06	Floor	2	1	Job Reference (optional)	I71683393

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:05 ID:5re3LN2aray4ANv91YIRq8yD_O6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:50.4

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	0.58	Vert(LL)	-0.16	18-19	>962	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.22	18-19	>724	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 110 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) WEBS

BRACING

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 16= Mechanical, 22=0-3-8, 26= Mechanical

Max Uplift 26=-1 (LC 32)

16=451 (LC 4), 22=865 (LC 1), Max Grav

26=314 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-26=-258/35, 15-16=-258/35, 1-2=0/0, 2-3=-481/68, 3-4=-400/258, 4-5=-400/258, 5-6=-58/574, 6-7=-58/574, 7-8=-666/0,

8-9=-1146/0, 9-10=-1146/0, 10-12=-1306/0, 12-13=-1306/0, 13-14=-867/0, 14-15=0/0

25-26=-17/329, 24-25=-143/507, **BOT CHORD**

22-24=-409/177, 21-22=-132/317 20-21=0/1146, 19-20=0/1146, 18-19=0/1320,

17-18=0/1174, 16-17=0/548

6-22=-277/47, 8-20=-29/290, 9-19=-106/197,

2-26=-413/21, 2-25=-67/274, 3-25=-175/150, 3-24=-295/70, 4-24=-261/60, 5-24=0/391, 5-22=-472/0, 7-22=-724/0, 7-21=0/581 8-21=-678/0, 14-16=-688/0, 14-17=0/437,

13-17=-400/0, 13-18=-126/314, 12-18=-227/90, 10-19=-394/59,

10-18=-200/182

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1)
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: , Joint 22 SP No.2 .
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.
- 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



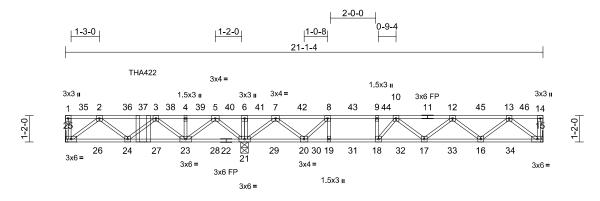
February 28,2025

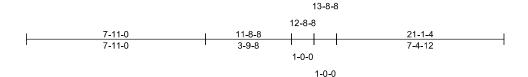


Job	Truss	Truss Type	Qty	Ply	Malbec Rev 1	
	FG04	Floor Girder	1	1	Job Reference (optional)	171683394

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 05:38:01 ID:H3_Lba8970M639xChwjEyJyD_9o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:49.5

Loading	(psf)	Spacing	1-10-8	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.16	17-18	>951	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.22	17-18	>697	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 109 lb	FT = 20%F, 12%E

LUMBER

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

(flat)

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

WFBS 2x4 SP No.3(flat)

BRACING

BOT CHORD

TOP CHORD

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

bracing, Except: 6-0-0 oc bracing: 21-23,20-21.

REACTIONS (size)

15= Mechanical, 21=0-4-0, 25=

Mechanical

15=626 (LC 4), 21=1458 (LC 1),

25=621 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-25=-233/60, 14-15=-260/36, 1-2=0/0, 2-3=-1134/0, 3-4=-810/15, 4-5=-810/15,

5-6=0/908, 6-7=0/908, 7-8=-869/45, 8-9=-1547/0, 9-10=-1547/0, 10-12=-1774/0,

12-13=-1201/0. 13-14=0/0

BOT CHORD 24-25=0/806, 23-24=0/1429, 21-23=-320/246,

20-21=-265/247, 19-20=0/1547,

18-19=0/1547, 17-18=0/1806, 16-17=0/1631,

15-16=0/758

WFBS 6-21=-287/35, 8-19=0/327, 9-18=-65/297 2-25=-1012/0, 2-24=0/495, 3-24=-384/0,

3-23=-869/0, 4-23=-162/157, 5-23=0/825 5-21=-1062/0, 7-21=-1034/0, 7-20=0/849

8-20=-991/0, 13-15=-951/0, 13-16=0/578, 12-16=-559/0. 12-17=-69/319

10-17=-141/221, 10-18=-523/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: , Joint 21 SP SS .
- Refer to girder(s) for truss to truss connections

- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 3-5-4 from the left end to connect truss (es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber. 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 15-25=-9, 1-14=-94

Concentrated Loads (lb) Vert: 37=-466 (F)

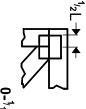


February 28,2025

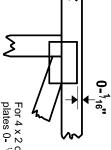


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

Plate location details available in MiTek software or upon request

PLATE SIZE



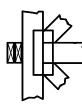
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

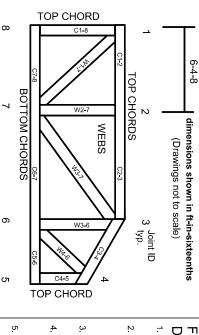
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-22:

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

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

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

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

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

▲ General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves 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.
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint

6

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

7

Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

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- 9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design
- . Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- 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.
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 19 Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone
- 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.