

RE: 4600437

LONGLEAF FLOOR - LOT 25 - ILA'S WAY

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: 4600437

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPl2014 Design Program: MiTek 20/20 8.6

Wind Code: Wind Speed: 120 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	168705804	F01	10/4/2024
2	168705805	F02	10/4/2024
3	168705806	F03	10/4/2024
4	168705807	F04	10/4/2024
5	168705808	F05	10/4/2024
6	168705809	F06	10/4/2024
7	168705810	F07	10/4/2024
8	168705811	F08	10/4/2024
9	168705812	F09	10/4/2024
10	168705813	F09A	10/4/2024
11	168705814	F10	10/4/2024
12	168705815	F11	10/4/2024
13	168705816	F12	10/4/2024
14	168705817	F12A	10/4/2024
15	168705818	F13	10/4/2024
16	168705819	F14	10/4/2024

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Builders FirstSource (Albermarle, NC).

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.

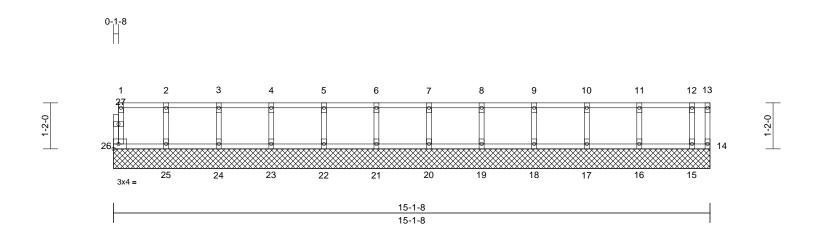


October 04, 2024

Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 25 - ILA'S WAY
4600437	F01	Floor Supported Gable	1	1	I68705804 Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:04 ID:8JPe8kcpAB?rnY27xaIFO_zyjA3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	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	IRC2015/TPI2014	Matrix-R							Weight: 64 lb	FT = 20%F, 11%E

LUMBER

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

14=15-1-8, 15=15-1-8, 16=15-1-8, 17=15-1-8, 18=15-1-8, 19=15-1-8, 20=15-1-8, 21=15-1-8, 22=15-1-8, 23=15-1-8, 24=15-1-8, 25=15-1-8, 26=15-1-8

Max Grav 14=7 (LC 1), 15=105 (LC 1),

16=153 (LC 1), 17=145 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=146 (LC 1), 25=149 (LC 1),

26=51 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-26=-48/0, 13-14=0/0, 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

2-25=-133/0, 3-24=-134/0, 4-23=-133/0, **WEBS** 5-22=-133/0, 6-21=-133/0, 7-20=-133/0,

8-19=-133/0, 9-18=-134/0, 10-17=-132/0, 11-16=-138/0, 12-15=-102/0

NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated. 1)
- 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 crushing capacity of 565 psi.
- 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



October 4,2024

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

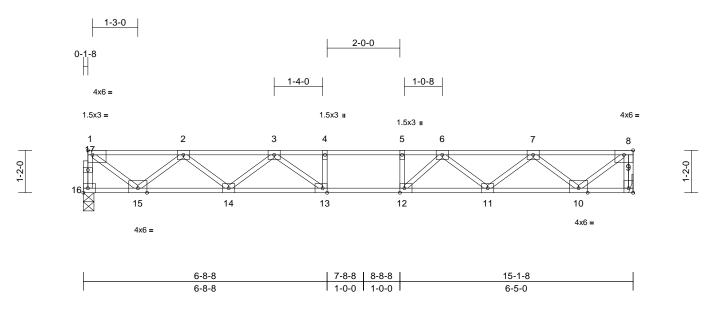
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	LONGLEAF FLOOR - LOT 25 - ILA'S WAY
4600437	F02	Floor	4	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:Z9dCKasMSLX?Bcaz6n6xCCzyj9l-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:31.7

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.18	13-14	>997	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.24	13-14	>734	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.05	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%F, 11%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 10-0-0 oc

bracing.

REACTIONS (size) 9= Mechanical, 16=0-3-8 Max Grav 9=818 (LC 1), 16=812 (LC 1)

FORCES (lb) - M

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-806/0, 8-9=-812/0, 1-2=-934/0,

2-3=-2222/0, 3-4=-2877/0, 4-5=-2877/0, 5-6=-2877/0, 6-7=-2216/0, 7-8=-934/0 15-16=0/48, 14-15=0/1755, 13-14=0/2651,

12-13=0/2877, 11-12=0/2651, 10-11=0/1757,

9-10=0/0

WEBS 4-13=-245/0, 5-12=-293/0, 1-15=0/1131,

2-15=-1069/0, 2-14=0/607, 3-14=-559/0, 3-13=-17/549, 8-10=0/1172, 7-10=-1071/0,

7-11=0/598, 6-11=-566/0, 6-12=-9/571

NOTES

BOT CHORD

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 16 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 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



NGINEERING BY

Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 25 - ILA'S WAY
4600437	F03	Floor	5	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:T_m6h8_qTw9FlQtlnhFhCpzyj5i-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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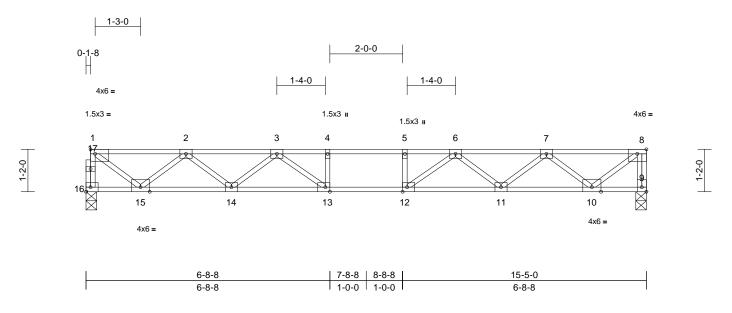


Plate Offsets (X, Y): [1:Edge,0-1-8], [9:Edge,0-1-8], [12:0-1-8,Edge], [13:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.18	11-12	>987	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.25	11-12	>729	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.05	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%F, 11%E

LUMBER

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

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) 9=0-3-8, 16=0-3-8

Max Grav 9=834 (LC 1), 16=828 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-16=-823/0, 8-9=-827/0, 1-2=-956/0,

2-3=-2278/0, 3-4=-2993/0, 4-5=-2993/0, 5-6=-2993/0, 6-7=-2279/0, 7-8=-954/0

BOT CHORD 15-16=0/49, 14-15=0/1795, 13-14=0/2730,

12-13=0/2993, 11-12=0/2729, 10-11=0/1797,

9-10=0/0

WEBS 4-13=-262/0, 5-12=-262/0, 1-15=0/1157,

2-15=-1093/0, 2-14=0/629, 3-14=-587/0, 3-13=0/593, 8-10=0/1197, 7-10=-1098/0,

7-11=0/627, 6-11=-585/0, 6-12=0/593

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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.
- 5) 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 BEFORE USE.

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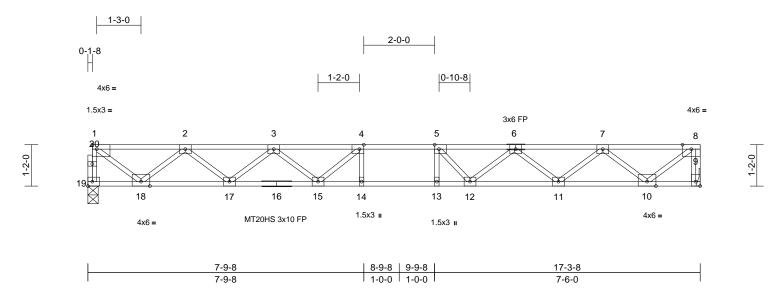
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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	LONGLEAF FLOOR - LOT 25 - ILA'S WAY	
4600437	F04	Floor	6	1	Job Reference (optional)	307

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Scale = 1:32.5

Plate Offsets (X, Y): [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [9:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	. ,	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.27	13-14	>750	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.38	13-14	>545	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.06	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 86 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 16-9:2x4 SP No.1 BOT CHORD

(flat)

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-7 oc purlins, except end verticals.

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

bracing, Except:

2-2-0 oc bracing: 14-15,13-14. REACTIONS (size) 9= Mechanical, 19=0-3-8

Max Grav 9=937 (LC 1), 19=931 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-19=-926/0, 8-9=-930/0, 1-2=-1089/0,

2-3=-2667/0, 3-4=-3546/0, 4-5=-3796/0,

5-7=-3558/0, 7-8=-1088/0

BOT CHORD 18-19=0/55, 17-18=0/2049, 15-17=0/3255,

14-15=0/3796, 13-14=0/3796, 12-13=0/3796, 11-12=0/3243, 10-11=0/2054, 9-10=0/0

WEBS 4-14=-177/176, 5-13=-174/242, 1-18=0/1319,

2-18=-1249/0, 2-17=0/805, 3-17=-765/0,

3-15=0/481, 4-15=-582/32, 8-10=0/1365,

7-10=-1257/0. 7-11=0/796, 6-11=-752/0,

6-12=0/521, 5-12=-612/35

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. All plates are 3x4 MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 19 SP No.2 crushing capacity of 565 psi.
- 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.

7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



October 4,2024



Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 25 - ILA'S WAY
4600437	F05	Floor	2	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:0tJRl2orhVblljVdCFyOPyzyj4f-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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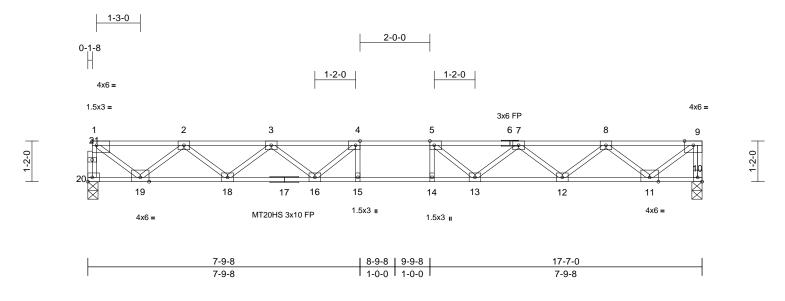


Plate Offsets (X, Y): [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [10:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	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	14-15	>726	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.40	14-15	>526	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.07	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 87 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 17-10:2x4 SP

No.1(flat)

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-10 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing

REACTIONS (size) 10=0-3-8, 20=0-3-8

Max Grav 10=953 (LC 1), 20=947 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-942/0, 9-10=-946/0, 1-2=-1110/0, 2-3=-2726/0, 3-4=-3644/0, 4-5=-3931/0,

5-7=-3644/0, 7-8=-2727/0, 8-9=-1108/0

19-20=0/56, 18-19=0/2090, 16-18=0/3331,

15-16=0/3931, 14-15=0/3931, 13-14=0/3931,

12-13=0/3331, 11-12=0/2092, 10-11=0/0

4-15=-168/199. 5-14=-168/200. 1-19=0/1345. 2-19=-1275/0, 2-18=0/829, 3-18=-787/0,

3-16=0/506, 4-16=-629/13, 9-11=0/1390,

8-11=-1281/0, 8-12=0/827, 7-12=-786/0,

7-13=0/506, 5-13=-630/14

NOTES

WEBS

BOT CHORD

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated. All plates are 3x4 MT20 unless otherwise indicated.
- 4) Bearings are assumed to be: Joint 20 SP No.2 crushing capacity of 565 psi, Joint 10 SP No.1 crushing capacity of 565 psi.
- 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



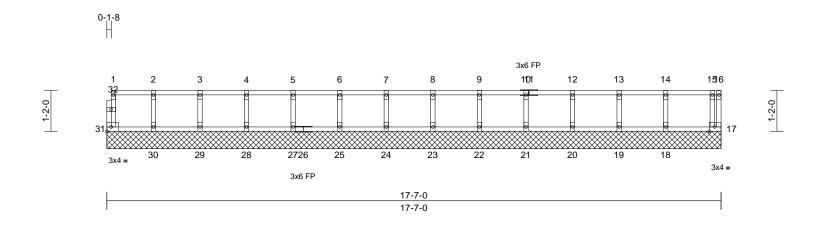
October 4,2024



Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 25 - ILA'S WAY
4600437	F06	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID: Q? 2QWiF3ztGVEPqktW73Plzyj44-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

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Scale = 1:33

Plate Offsets	(X, Y):	[17:0-1-	12,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 74 lb	FT = 20%F, 11%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 10-0-0 oc

bracing.

REACTIONS (size)

17=17-7-0, 18=17-7-0, 19=17-7-0, 20=17-7-0, 21=17-7-0, 22=17-7-0, 23=17-7-0, 24=17-7-0, 25=17-7-0, 27=17-7-0, 28=17-7-0, 29=17-7-0,

30=17-7-0, 31=17-7-0

17=85 (LC 1), 18=157 (LC 1), Max Grav 19=144 (LC 1), 20=147 (LC 1),

21=146 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1), 27=147 (LC 1),

28=146 (LC 1), 29=149 (LC 1), 30=139 (LC 1), 31=60 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-31=-53/0, 16-17=0/24, 1-2=-13/0,

2-3=-13/0, 3-4=-13/0, 4-5=-13/0, 5-6=-13/0, 6-7=-13/0, 7-8=-13/0, 8-9=-13/0, 9-10=-13/0, 10-12=-13/0, 12-13=-13/0, 13-14=-13/0,

14-15=-13/0, 15-16=-4/0

BOT CHORD 30-31=0/13, 29-30=0/13, 28-29=0/13,

> 27-28=0/13, 25-27=0/13, 24-25=0/13, 23-24=0/13, 22-23=0/13, 21-22=0/13,

20-21=0/13, 19-20=0/13, 18-19=0/13, 17-18=0/13

WFBS 2-30=-128/0, 3-29=-135/0, 4-28=-133/0,

5-27=-133/0, 6-25=-133/0, 7-24=-133/0, 8-23=-133/0, 9-22=-133/0, 10-21=-133/0, 12-20=-134/0, 13-19=-131/0, 14-18=-142/0,

15-17=-103/0

NOTES

1)

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 2)
- 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 crushing 5) capacity of 565 psi.
- 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



October 4,2024

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

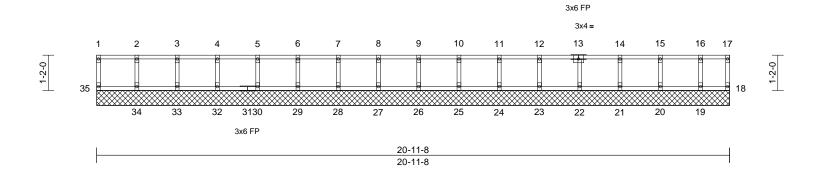
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	LONGLEAF FLOOR - LOT 25 - ILA'S WAY
4600437	F07	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:L0d3AqmX_nT_BMji3Csrrczyj0q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	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	18	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 85 lb	FT = 20%F, 11%E

LOMIDEIX	
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

LUMBER

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)

18=20-11-8, 19=20-11-8, 20=20-11-8, 21=20-11-8, 22=20-11-8, 23=20-11-8, 24=20-11-8, 25=20-11-8, 26=20-11-8, 27=20-11-8, 28=20-11-8, 29=20-11-8, 30=20-11-8, 32=20-11-8, 33=20-11-8, 34=20-11-8, 35=20-11-8

Max Grav 18=38 (LC 1), 19=131 (LC 1), 20=149 (LC 1), 21=149 (LC 1), 22=147 (LC 1), 23=143 (LC 1), 24=148 (LC 1), 25=146 (LC 1), 26=147 (LC 1), 27=147 (LC 1), 28=147 (LC 1), 29=147 (LC 1), 30=147 (LC 1), 32=147 (LC 1), 33=146 (LC 1), 34=151 (LC 1),

35=63 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-35=-56/0, 17-18=-34/0, 1-2=-8/0, 2-3=-8/0,

3-4=-8/0, 4-5=-8/0, 5-6=-8/0, 6-7=-8/0, 7-8=-8/0, 8-9=-8/0, 9-10=-8/0, 10-11=-8/0, 11-12=-8/0, 12-14=-8/0, 14-15=-3/0,

15-16=-3/0. 16-17=-3/0

BOT CHORD 34-35=0/8, 33-34=0/8, 32-33=0/8, 30-32=0/8,

29-30=0/8, 28-29=0/8, 27-28=0/8, 26-27=0/8, 25-26=0/8, 24-25=0/8, 23-24=0/8, 22-23=0/8, 21-22=0/3, 20-21=0/3, 19-20=0/3, 18-19=0/3

WEBS 2-34=-138/0, 3-33=-132/0, 4-32=-134/0,

5-30=-133/0, 6-29=-133/0, 7-28=-133/0, 8-27=-133/0, 9-26=-133/0, 10-25=-133/0, 11-24=-134/0, 12-23=-130/0, 13-22=-134/0,

14-21=-136/0, 15-20=-136/0, 16-19=-120/0

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 crushing capacity of 565 psi.
- 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



October 4,2024

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

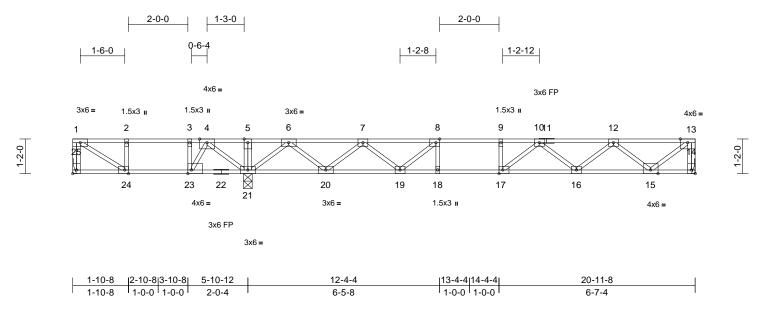
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent bucking 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/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	LONGLEAF FLOOR - LOT 25 - ILA'S WAY	
4600437	F08	Floor	4	1	Job Reference (optional)	168705811

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:WPJe2P65ON?0Ygs5i5MPzWzyj0O-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.17	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.23	16-17	>791	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

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

No.1(flat)

2x4 SP No.3(flat) WFBS

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, Except: 6-0-0 oc bracing: 23-24,21-23.

REACTIONS (size) 14= Mechanical, 21=0-3-8, 25=

Mechanical Max Uplift 25=-40 (LC 4)

14=775 (LC 7), 21=1329 (LC 8), Max Grav

25=271 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-25=-253/80, 13-14=-767/0, 1-2=-291/212,

2-3=-291/212, 3-4=-291/212, 4-5=0/817, 5-6=0/817, 6-7=-1129/0, 7-8=-2185/0, 8-9=-2576/0, 9-10=-2576/0, 10-12=-2066/0,

12-13=-874/0

BOT CHORD 24-25=0/0, 23-24=-212/291, 21-23=-424/135, 20-21=0/408, 19-20=0/1808, 18-19=0/2576,

17-18=0/2576, 16-17=0/2438, 15-16=0/1650,

14-15=0/0

WEBS 2-24=-185/65. 3-23=-423/0. 5-21=-154/0. 8-18=-63/170, 9-17=-186/0, 1-24=-249/342,

4-21=-639/0, 4-23=0/616, 6-21=-1340/0, 6-20=0/955, 7-20=-902/0, 7-19=0/519. 8-19=-635/0, 13-15=0/1097, 12-15=-1009/0, 12-16=0/542, 10-16=-484/0, 10-17=-78/421

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.

- Bearings are assumed to be: , Joint 21 SP No.1 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 25.
- Recommend 2x6 strongbacks, on edge, spaced at 6) 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



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/TPI1 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 LONGLEAF FLOOR - LOT 25 -		LONGLEAF FLOOR - LOT 25 - ILA'S WAY	
4600437	F09	Floor	3	1	Job Reference (optional)	

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID: Pjc 01OZwR3nd 6WmOw31KWXzyj? o-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the Page: 1

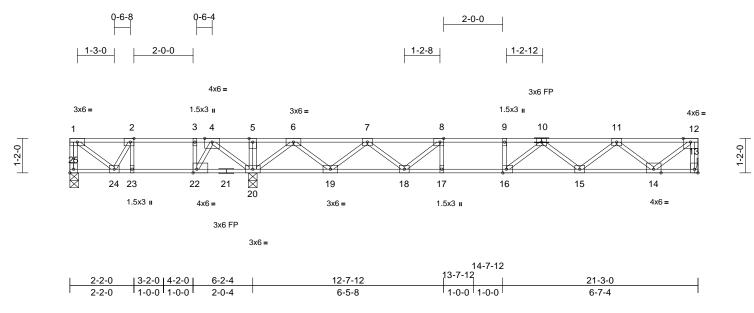


Plate Offsets (X, Y): [2:0-1-8,Edge], [8:0-1-8,Edge], [13:Edge,0-1-8], [16:0-1-8,Edge], [22:0-1-8,Edge], [25:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.61	Vert(LL)	-0.17	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.23	15-16	>792	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 108 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 21-13:2x4 SP

No.1(flat)

2x4 SP No.3(flat) WFBS

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:

6-0-0 $\stackrel{-}{\text{oc}}$ bracing: 23-24,22-23,20-22. **REACTIONS** (size) 13= Mechanical, 20=0-3-8,

25=0-3-8 Max Uplift 25=-41 (LC 4)

13=773 (LC 7), 20=1343 (LC 8), Max Grav

25=295 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-25=-291/38, 12-13=-765/0, 1-2=-268/110,

2-3=-348/256, 3-4=-348/256, 4-5=0/866, 5-6=0/866, 6-7=-1107/0, 7-8=-2167/0, 8-9=-2562/0, 9-11=-2562/0, 11-12=-872/0

BOT CHORD 24-25=0/0, 23-24=-256/348, 22-23=-256/348,

20-22=-471/184, 19-20=0/383,

18-19=0/1788, 17-18=0/2562, 16-17=0/2562,

15-16=0/2429, 14-15=0/1645, 13-14=0/0

WEBS 2-23=-240/0, 3-22=-412/0, 5-20=-154/0,

8-17=-61/168. 9-16=-184/0. 1-24=-137/337. 2-24=-158/292, 4-20=-671/0, 4-22=0/634, 6-20=-1347/0, 6-19=0/961, 7-19=-906/0, 7-18=0/519, 8-18=-631/0, 12-14=0/1094 11-14=-1007/0, 11-15=0/540, 10-15=-480/0,

10-16=-74/417

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.

- Bearings are assumed to be: Joint 25 SP No.2 crushing capacity of 565 psi, Joint 20 SP No.1 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 25.
- Recommend 2x6 strongbacks, on edge, spaced at 6) 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



October 4,2024

Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 25 - ILA'S WAY
4600437	F09A	Floor	2	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:Pjc01OZwR3nd6WmOw31KWXzyj?o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

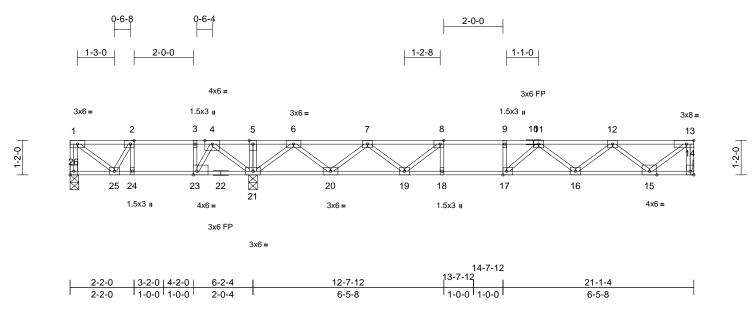


Plate Offsets (X, Y): [2:0-1-8,Edge], [8:0-1-8,Edge], [13:0-3-0,Edge], [14:Edge,0-1-8], [17:0-1-8,Edge], [23:0-1-8,Edge], [26:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.17	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.22	16-17	>789	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 107 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

REACTIONS (size) 14= Mechanical, 21=0-3-8,

26=0-3-8 Max Uplift 26=-45 (LC 4)

Max Grav 14=763 (LC 7), 21=1341 (LC 1),

26=294 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-26=-290/42, 13-14=-756/0, 1-2=-267/116,

2-3=-344/267, 3-4=-344/267, 4-5=0/887, 5-6=0/887, 6-7=-1068/0, 7-8=-2114/0, 8-9=-2495/0, 9-11=-2495/0, 11-12=-2020/0,

12-13=-859/0

BOT CHORD 25-26=0/0, 24-25=-267/344, 23-24=-267/344,

21-23=-488/179, 20-21=0/350, 19-20=0/1742, 18-19=0/2495, 17-18=0/2495,

16-17=0/2378, 15-16=0/1619, 14-15=0/0 2-24=-247/0, 3-23=-420/0, 5-21=-155/0,

8-18=-58/151, 9-17=-197/0, 4-21=-678/0, 4-23=0/646, 6-21=-1337/0, 6-20=0/952, 7-20=-898/0, 7-19=0/509, 8-19=-607/0,

13-15=0/1078, 12-15=-990/0, 12-16=0/522, 11-16=-467/0. 11-17=-85/405 1-25=-145/335, 2-25=-155/303

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.

- Bearings are assumed to be: Joint 26 SP No.2 crushing capacity of 565 psi, Joint 21 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 26.
- 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



October 4,2024

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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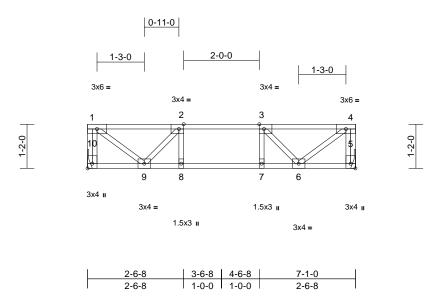
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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	LONGLEAF FLOOR - LOT 25 - ILA'S WAY
4600437	F10	Floor	3	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:ejBrUHtEK23xDVIOSXVQZ0zyj?O-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.5

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [5:Edge,0-1-8], [10:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.03	8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.03	8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 38 lb	FT = 20%F, 11%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. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 5= Mechanical, 10= Mechanical Max Grav 5=376 (LC 1), 10=376 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-10=-369/0, 4-5=-369/0, 1-2=-359/0,

TOP CHORD 2-3=-604/0, 3-4=-359/0 **BOT CHORD**

9-10=0/0, 8-9=0/604, 7-8=0/604, 6-7=0/604,

WEBS 2-8=-57/90, 3-7=-57/90, 1-9=0/450,

2-9=-359/0, 4-6=0/450, 3-6=-359/0

NOTES

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



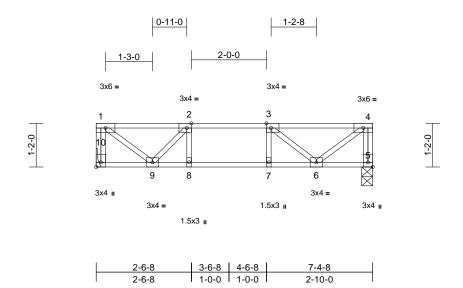
October 4,2024



Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 25 - ILA'S WAY	
4600437	F11	Floor	1	1	I68705815 Job Reference (optional)	

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:jhhDvftInYW9hGcLpSUuRWzyj_5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.7

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [5:Edge,0-1-8], [10:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL		Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.05	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 11%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. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 5=0-3-8, 10= Mechanical Max Grav 5=392 (LC 1), 10=392 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-10=-383/0, 4-5=-388/0, 1-2=-380/0,

2-3=-662/0, 3-4=-363/0 9-10=0/0, 8-9=0/662, 7-8=0/662, 6-7=0/662,

BOT CHORD WEBS

2-8=-42/122, 3-7=-73/68, 1-9=0/477, 2-9=-411/0, 4-6=0/455, 3-6=-386/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 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



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

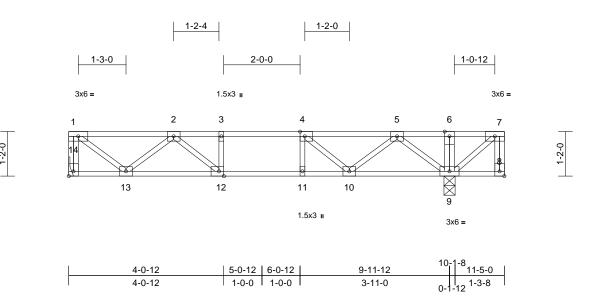
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 25 - ILA'S WAY
4600437	F12	Floor	2	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:YN6LILMOMrYUUPf19sCG3yzyizT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:30.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL		Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.07	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 11%E

LUMBER

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

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) 9=0-3-8, 14= Mechanical Max Grav 9=696 (LC 1), 14=539 (LC 3)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-14=-532/0, 7-8=0/3, 1-2=-558/0,

2-3=-1237/0, 3-4=-1237/0, 4-5=-950/0,

5-6=0/73, 6-7=0/73

BOT CHORD 13-14=0/0, 12-13=0/1046, 11-12=0/1237, 10-11=0/1237, 9-10=0/625, 8-9=0/0

3-12=-182/0, 4-11=-63/86, 6-9=-132/0,

5-9=-801/0, 5-10=0/437, 4-10=-440/0,

7-9=-93/0, 1-13=0/700, 2-13=-635/0,

2-12=0/407

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- Bearings are assumed to be: , Joint 9 SP No.2 crushing capacity of 565 psi.
- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



October 4,2024

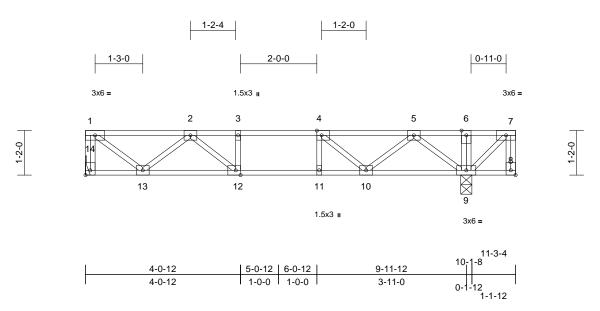
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	Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 25 - ILA'S WAY	
١	4600437	F12A	Floor	1	1	Job Reference (optional)	

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:YN6LILMOMrYUUPf19sCG3yzyizT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.2

Plate Offsets (X, Y): [4:0-1-8,Edge], [8:Edge,0-1-8], [12:0-1-8,Edge], [14:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.07	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 11%E

LUMBER

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

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) 9=0-3-8, 14= Mechanical

Max Grav 9=679 (LC 1), 14=539 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-532/0, 7-8=-2/2, 1-2=-559/0,

2-3=-1239/0, 3-4=-1239/0, 4-5=-952/0,

5-6=0/58, 6-7=0/57

BOT CHORD 13-14=0/0, 12-13=0/1047, 11-12=0/1239, 10-11=0/1239, 9-10=0/628, 8-9=0/0

3-12=-182/0, 4-11=-63/84, 6-9=-122/0,

1-13=0/701, 2-13=-636/0, 2-12=0/408,

5-9=-799/0, 5-10=0/433, 4-10=-434/0,

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- Bearings are assumed to be: , Joint 9 SP No.2 crushing capacity of 565 psi.
- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



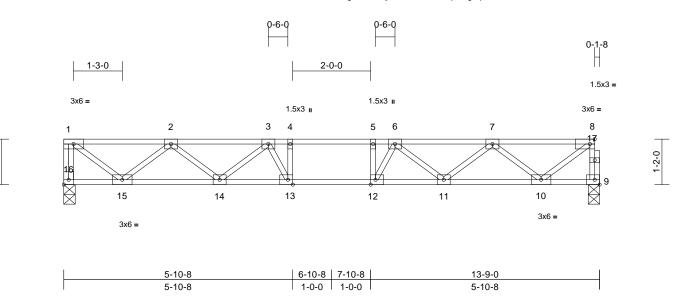
October 4,2024



J	Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 25 - ILA'S WAY				
4	4600437	F13	Floor	4	1	Job Reference (optional)				

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:_HEI0NhubKCTzgBtm6elixzyivA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.6

							-	-				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.12	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.16	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 70 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 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) 9=0-3-8, 16=0-3-8

Max Grav 9=736 (LC 1), 16=742 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-736/0, 8-9=-732/0, 1-2=-834/0, 2-3=-1939/0, 3-4=-2365/0, 4-5=-2365/0,

5-6=-2365/0, 6-7=-1938/0, 7-8=-836/0 15-16=0/0, 14-15=0/1567, 13-14=0/2285,

12-13=0/2365, 11-12=0/2286, 10-11=0/1564,

9-10=0/44

WEBS 4-13=-339/49, 5-12=-339/51, 1-15=0/1046, 2-15=-954/0, 2-14=0/485, 3-14=-450/0,

3-13=-105/477, 8-10=0/1011, 7-10=-948/0,

7-11=0/487, 6-11=-452/0, 6-12=-107/476

NOTES

BOT CHORD

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



October 4,2024

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

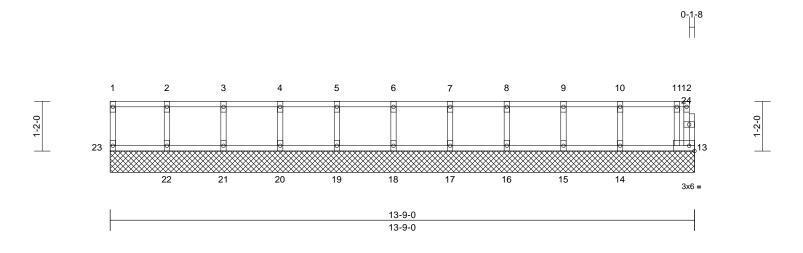
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	LONGLEAF FLOOR - LOT 25 - ILA'S WAY	
4600437	F14	Floor Supported Gable	1	1	Job Reference (optional)	168705819

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Page: 1



Scale = 1:27.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 58 lb	FT = 20%F, 11%E

LUMBER

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

13=13-9-0, 14=13-9-0, 15=13-9-0, 16=13-9-0, 17=13-9-0, 18=13-9-0, 19=13-9-0, 20=13-9-0, 21=13-9-0, 22=13-9-0, 23=13-9-0

Max Grav 13=85 (LC 1), 14=163 (LC 1), 15=142 (LC 1), 16=148 (LC 1), 17=146 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=146 (LC 1), 21=148 (LC 1), 22=142 (LC 1),

23=70 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-60/0, 12-13=0/10, 1-2=-15/0,

2-3=-15/0, 3-4=-15/0, 4-5=-15/0, 5-6=-15/0, 6-7=-15/0, 7-8=-15/0, 8-9=-15/0, 9-10=-15/0,

10-11=-15/0, 11-12=0/1

BOT CHORD 22-23=0/15, 21-22=0/15, 20-21=0/15,

19-20=0/15, 18-19=0/15, 17-18=0/15, 16-17=0/15, 15-16=0/15, 14-15=0/15,

13-14=0/15

WEBS 2-22=-134/0. 3-21=-133/0. 4-20=-133/0.

5-19=-133/0, 6-18=-133/0, 7-17=-133/0, 8-16=-134/0, 9-15=-130/0, 10-14=-144/0,

11-13=-92/0

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 crushing capacity of 565 psi.
- 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



October 4,2024

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Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ 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



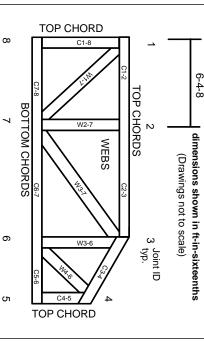
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards: ANSI/TPI1: National Design Specification for Metal

DSB-22:

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.

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.
- 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.
- 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.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.