

RE: 4493316

WHITE OAK HOMES

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: WHITE OAK HOMES Project Name: 4493316 Lot/Block: 3 Model: THE BE Model: THE BELLAGRACE Address: Subdivision: CAMERON HILL RD

City: CAMERON State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7-10 Wind Speed: 130 mph Floor Load: N/A psf Roof Load: 40.0 psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	171629970	F01	2/26/2025
2	171629971	F02	2/26/2025
3	171629972	F03	2/26/2025
4	171629973	F04	2/26/2025
5	171629974	F05	2/26/2025
6	171629975	F06	2/26/2025
7	171629976	F07	2/26/2025
8	171629977	F08	2/26/2025
9	171629978	F09	2/26/2025
10	171629979	F10	2/26/2025
11	171629980	F11	2/26/2025
12	171629981	F12	2/26/2025
13	171629982	F13	2/26/2025
14	171629983	F14	2/26/2025

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-Sumter,SC.

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.

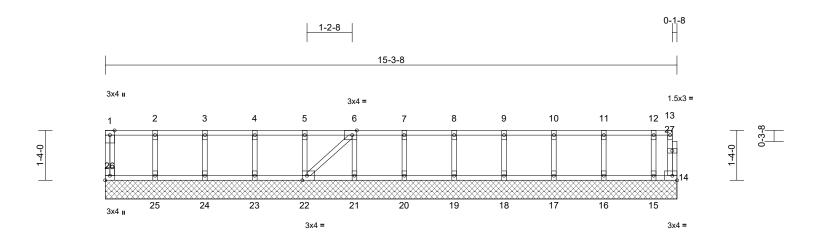


February 26, 2025

Job	Truss	Truss Type	Qty Ply		WHITE OAK HOMES			
4493316	F01	Floor Supported Gable	1	1	Job Reference (optional)	171629970		

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:25 ID:trQgJlWMH13m6Zi0YDXxGuyy752-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.8

	, ,	I		1								
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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 72 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 OTHERS** 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 14=15-3-8, 15=15-3-8, 16=15-3-8, 17=15-3-8, 18=15-3-8, 19=15-3-8, 20=15-3-8, 21=15-3-8, 22=15-3-8,

23=15-3-8, 24=15-3-8, 25=15-3-8, 26=15-3-8

Max Uplift 14=-2 (LC 1)

14=-2 (LC 1), 15=120 (LC 1), Max Grav

16=152 (LC 1), 17=145 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=146 (LC 1), 23=147 (LC 1),

24=145 (LC 1), 25=156 (LC 1), 26=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-26=-47/0, 13-14=0/2, 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=0/0,

8-9=0/0, 9-10=0/0, 10-11=0/0, 11-12=0/0,

12-13=0/0

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

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

WEBS 2-25=-142/0, 3-24=-132/0, 4-23=-134/0,

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=-109/0, 6-22=0/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2 . 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 2 lb uplift at joint
- 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 26,2025

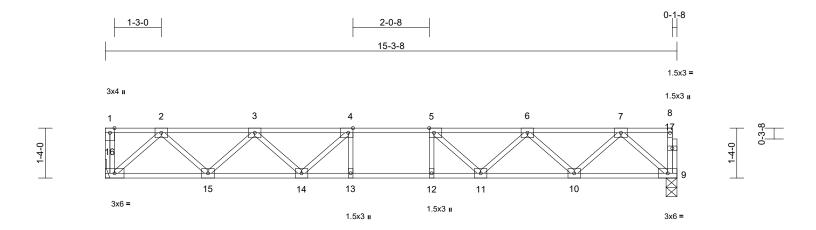




Job	Truss	Truss Type	Qty Ply WHITE OAK HOMES			
4493316	F02	Floor	2	1	Job Reference (optional)	171629971

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:26 ID:6r_VmeqgA0L3EYh?3g?1KNyy74e-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.8

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	0.48	Vert(LL)	-0.14	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.73	Vert(CT)	-0.19	13-14	>954	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 79 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.1(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 9=0-3-8, 16= Mechanical (size) Max Grav 9=821 (LC 1), 16=827 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-16=-44/0, 8-9=-41/0, 1-2=0/0, 2-3=-1459/0,

3-4=-2282/0, 4-5=-2551/0, 5-6=-2282/0,

6-7=-1459/0, 7-8=-2/0

BOT CHORD 15-16=0/880, 14-15=0/2008, 13-14=0/2551,

12-13=0/2551, 11-12=0/2551, 10-11=0/2008,

9-10=0/880

WEBS 2-16=-1172/0. 7-9=-1168/0. 2-15=0/805. 7-10=0/806, 3-15=-763/0, 6-10=-764/0,

3-14=0/433, 6-11=0/433, 4-14=-539/0,

5-11=-539/0, 4-13=-134/168, 5-12=-134/168

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: , Joint 9 SP No.1 .
- 4) Refer to girder(s) for truss to truss connections. Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 26,2025



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

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

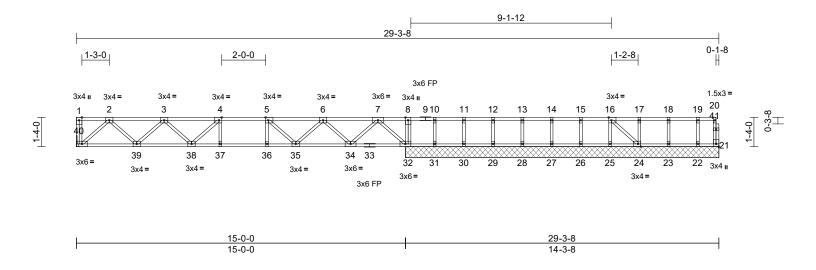
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	WHITE OAK HOMES	
4493316	F03	Floor	1	1	Job Reference (optional)	171629972

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:26 ID:veoeG7OfE92 g7uIUColv4yy71K-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.5

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [16:0-1-8,Edge], [21:Edge,0-1-8], [24:0-1-8,Edge]

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	0.51	Vert(LL)	-0.14	37-38	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.19	37-38	>957	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	32	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 143 lb	FT = 20%F, 11%E

LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 33-21:2x4 SP
	No.2(flat)
MEDO	04 0D N - 0(fl-4)

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

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

bracing.

BOT CHORD

REACTIONS (size) 21=14-3-8, 22=14-3-8, 23=14-3-8, 24=14-3-8, 25=14-3-8, 26=14-3-8, 27=14-3-8, 28=14-3-8, 29=14-3-8, 30=14-3-8, 31=14-3-8, 32=14-3-8,

40= Mechanical

Max Uplift 24=-423 (LC 4)

21=26 (LC 3), 22=131 (LC 4), Max Grav 23=150 (LC 3), 24=-49 (LC 3), 25=714 (LC 4), 26=151 (LC 4), 27=146 (LC 3), 28=148 (LC 4), 29=145 (LC 3), 30=162 (LC 4), 31=125 (LC 3), 32=986 (LC 1),

40=773 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-40=-45/0, 20-21=-23/0, 1-2=0/0, 2-3=-1343/0. 3-4=-2053/0. 4-5=-2218/0. 5-6=-1854/0, 6-7=-920/0, 7-8=0/631, 8-10=0/631, 10-11=0/631, 11-12=0/631, 12-13=0/631, 13-14=0/631, 14-15=0/631, 15-16=0/631, 16-17=-1/0, 17-18=-1/0, 18-19=-1/0, 19-20=-1/0

BOT CHORD 39-40=0/817, 38-39=0/1842, 37-38=0/2218, 36-37=0/2218, 35-36=0/2218, 34-35=0/1520,

32-34=0/299, 31-32=-631/0, 30-31=-631/0, 29-30=-631/0, 28-29=-631/0, 27-28=-631/0, 26-27=-631/0, 25-26=-631/0, 24-25=-631/0, 23-24=0/1, 22-23=0/1, 21-22=0/1 8-32=-155/0, 2-40=-1088/0, 7-32=-1192/0, 2-39=0/732, 7-34=0/863, 3-39=-695/0, 6-34=-835/0, 3-38=0/339, 6-35=0/465, 4-38=-388/0, 5-35=-582/0, 10-31=-124/0, 11-30=-142/0, 12-29=-133/0, 13-28=-134/0, 14-27=-133/0, 15-26=-138/0, 16-25=-701/0, 17-24=-137/0. 18-23=-136/0. 19-22=-119/0. 4-37=-157/100, 5-36=-69/189, 16-24=0/853

NOTES

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 (||) 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 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 423 lb uplift at joint
- 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 26,2025



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

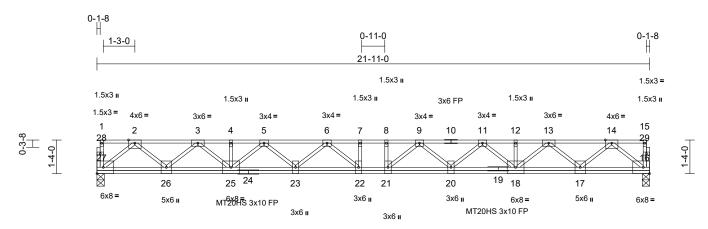
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overal building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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	ss Truss Type Qty Ply WHITE OAK HOMES				
4493316	F04	Floor	6	1	Job Reference (optional)	171629973

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:26 ID:S3PqTfd?SBnfHf69vw6QVNyy7?I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





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	0.45	Vert(LL)	-0.35	21-22	>741	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.48	21-22	>539	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 146 lb	FT = 20%F, 11%E

LUMBER

2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP TOP CHORD

SS(flat)

BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP

SS(flat)

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-5 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 16=0-3-8, 27=0-3-8

Max Grav 16=1185 (LC 1), 27=1185 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-27=-35/0, 15-16=-35/0, 1-2=0/0, 2-3=-2289/0, 3-4=-3999/0, 4-5=-3999/0, 5-6=-5043/0, 6-7=-5509/0, 7-8=-5509/0, 8-9=-5509/0, 9-11=-5043/0, 11-12=-3999/0, 12-13=-3999/0, 13-14=-2289/0, 14-15=0/0 26-27=0/1371, 25-26=0/3252, 23-25=0/4662,

BOT CHORD 22-23=0/5394, 21-22=0/5509, 20-21=0/5394,

18-20=0/4662, 17-18=0/3252, 16-17=0/1371 2-27=-1734/0, 14-16=-1734/0, 2-26=0/1248,

14-17=0/1248, 3-26=-1307/0, 13-17=-1307/0, 3-25=0/992, 13-18=0/992, 7-22=-130/0, 8-21=-130/0, 4-25=-57/0, 12-18=-57/0, 11-18=-879/0, 11-20=0/517, 9-20=-512/0,

5-25=-879/0, 5-23=0/517, 6-23=-512/0,

6-22=-230/499, 9-21=-230/499

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- 3) All bearings are assumed to be SP DSS or SS or 2400F 2.0E

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



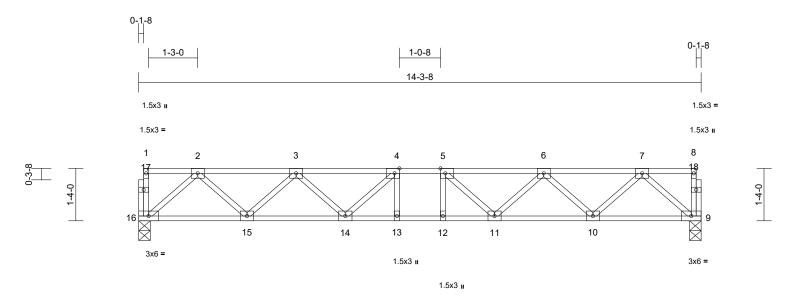
February 26,2025



Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	
4493316	F05	Floor	6	1	Job Reference (optional)	171629974

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:27 ID: RjmhdbbhT33jbb6qQZ4VZSyy714-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:29.3

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	0.39	Vert(LL)	-0.10	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	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) 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 9=0-3-8, 16=0-3-8 (size)

Max Grav 9=766 (LC 1), 16=766 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

TOP CHORD 1-16=-40/0, 8-9=-40/0, 1-2=-2/0, 2-3=-1341/0,

3-4=-2047/0, 4-5=-2249/0, 5-6=-2047/0,

6-7=-1341/0, 7-8=-2/0

BOT CHORD 15-16=0/817, 14-15=0/1835, 13-14=0/2249,

12-13=0/2249, 11-12=0/2249, 10-11=0/1835,

9-10=0/817

WEBS 2-16=-1084/0, 7-9=-1084/0, 2-15=0/729, 7-10=0/729, 3-15=-687/0, 6-10=-687/0,

3-14=0/346, 6-11=0/346, 4-14=-401/0,

5-11=-401/0, 4-13=-126/146, 5-12=-126/146

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



February 26,2025



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

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

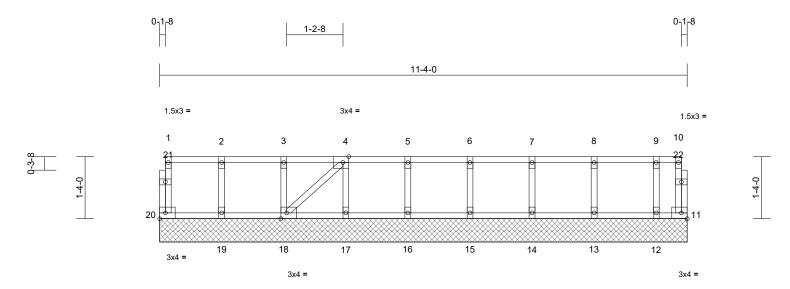
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)



J	ob	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	
4	493316	F06	Floor Supported Gable	1	1	Job Reference (optional)	171629975

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:27 ID:pNrrLRiSFr6u4U?SApjX9Myy7_L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.7

Plate Offsets	(X, Y):	[4:0-1-8,Edge],	[18:0-1-8,Edge]
---------------	-------	----	-----------------	-----------------

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/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	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 55 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 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=11-4-0, 12=11-4-0, 13=11-4-0, 14=11-4-0, 15=11-4-0, 16=11-4-0, 17=11-4-0, 18=11-4-0, 19=11-4-0,

20=11-4-0

11=2 (LC 1), 12=120 (LC 1), Max Grav 13=152 (LC 1), 14=145 (LC 1),

15=147 (LC 1), 16=147 (LC 1), 17=149 (LC 1), 18=144 (LC 1), 19=152 (LC 1), 20=49 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-20=-44/0, 10-11=-2/0, 1-2=-2/0, 2-3=-2/0, TOP CHORD

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

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

BOT CHORD 19-20=0/2, 18-19=0/2, 17-18=0/0, 16-17=0/0,

15-16=0/0, 14-15=0/0, 13-14=0/0, 12-13=0/0,

11-12=0/0

WEBS 2-19=-138/0, 3-18=-133/0, 4-17=-135/0,

5-16=-133/0, 6-15=-134/0, 7-14=-132/0, 8-13=-138/0, 9-12=-109/0, 4-18=0/3

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2.

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

LOAD CASE(S) Standard



February 26,2025



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

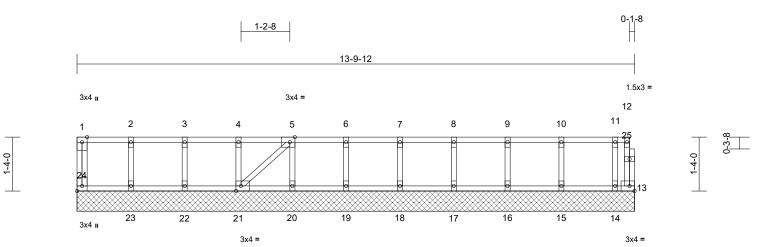
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	WHITE OAK HOMES	
4493316	F07	Floor Supported Gable	1	1	Job Reference (optional)	171629976

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:27 ID:pwuiU37nFHP39ib?AyKVXXyy6zp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:28.5

Plate Offsets (X, Y): [5:0-1-8,Edge], [21:0-1-8,Edge], [24:Edge,0-1-8]

												-
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	0.08	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	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 66 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 OTHERS** 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing, Except:

10-0-0 oc bracing: 23-24,22-23,21-22. 13=13-9-12, 14=13-9-12, REACTIONS (size)

15=13-9-12, 16=13-9-12, 17=13-9-12, 18=13-9-12, 19=13-9-12, 20=13-9-12, 21=13-9-12, 22=13-9-12,

23=13-9-12, 24=13-9-12

Max Uplift 13=-23 (LC 1)

Max Grav 13=-23 (LC 1), 14=125 (LC 1), 15=152 (LC 1), 16=145 (LC 1),

17=147 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=148 (LC 1),

21=146 (LC 1), 22=145 (LC 1), 23=156 (LC 1), 24=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-24=-47/0, 12-13=0/22, 1-2=0/0, 2-3=0/0, TOP CHORD

3-4=0/0, 4-5=0/0, 5-6=0/1, 6-7=0/1, 7-8=0/1, 8-9=0/1, 9-10=0/1, 10-11=0/1, 11-12=0/1

BOT CHORD 23-24=0/0, 22-23=0/0, 21-22=0/0, 20-21=-1/0, 19-20=-1/0, 18-19=-1/0,

17-18=-1/0, 16-17=-1/0, 15-16=-1/0,

14-15=-1/0, 13-14=-1/0 **WEBS** 2-23=-142/0, 3-22=-132/0, 4-21=-134/0, 5-20=-134/0, 6-19=-133/0, 7-18=-133/0,

8-17=-134/0, 9-16=-132/0, 10-15=-138/0, 11-14=-113/0, 5-21=0/2

- 1) All plates are 1.5x3 (||) MT20 unless otherwise
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2 . 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 23 lb uplift at joint 13.
- 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 26,2025

Page: 1



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

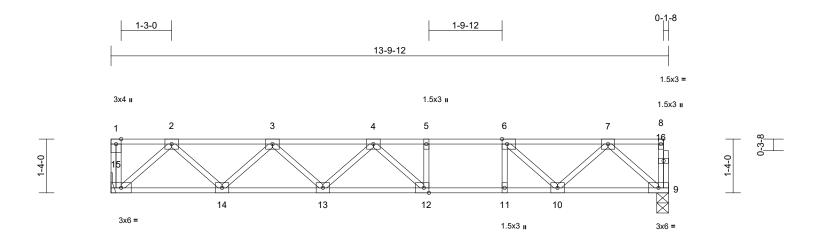
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall a dusa system. Declared to change design in this very the applications of design parameters and properly into polynemia design in the design in the versal 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	WHITE OAK HOMES	
4493316	F08	Floor	4	1	Job Reference (optional)	171629977

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:27 ID:pTyZdhX6FkhEFxBX95xUviyy6zH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:28.5

Plate Offsets (X, Y): [6:0-1-8,Edge], [12:0-1-8,Edge]
-------------------------	--------------------------------

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.20	12-13	>827	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.26	12-13	>615	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 72 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.

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

bracing, Except: 2-2-0 oc bracing: 11-12.

REACTIONS (size) 9=0-3-8, 15= Mechanical

Max Grav 9=740 (LC 1), 15=746 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-40/0, 8-9=-53/0, 1-2=0/0, 2-3=-1277/0,

3-4=-1964/0, 4-5=-1913/0, 5-6=-1913/0,

6-7=-1284/0, 7-8=-3/0

BOT CHORD 14-15=0/787, 13-14=0/1752, 12-13=0/2095,

11-12=0/1913, 10-11=0/1913, 9-10=0/763

WEBS 2-15=-1047/0, 2-14=0/682, 3-14=-661/0, 3-13=0/294, 4-13=-191/0, 4-12=-367/141,

5-12=-82/82, 7-9=-1013/0, 7-10=0/725,

6-10=-855/0, 6-11=0/270

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: , Joint 9 SP No.1 .
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 26,2025



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

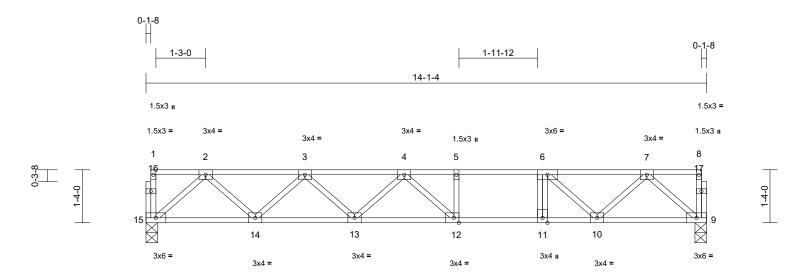
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	WHITE OAK HOMES	
4493316	F09	Floor	11	1	Job Reference (optional)	171629978

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:27 ID:X61v9lSjuaoEvs9BF7Jr7Dyy6zO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29

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

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	0.90	Vert(LL)	-0.22	12-13	>754	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.29	12-13	>564	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 74 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP **BOT CHORD**

SS(flat)

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

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

bracing

REACTIONS (size) 9=0-3-8, 15=0-3-8 Max Grav 9=756 (LC 1), 15=756 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-36/0, 8-9=-53/0, 1-2=-2/0, 2-3=-1310/0,

3-4=-2035/0, 4-5=-2004/0, 5-6=-2004/0,

6-7=-1315/0, 7-8=-3/0

BOT CHORD 14-15=0/804, 13-14=0/1805, 12-13=0/2174,

11-12=0/2004, 10-11=0/2004, 9-10=0/780 2-15=-1068/0, 2-14=0/705, 3-14=-687/0, 3-13=0/320, 4-13=-207/0, 4-12=-357/164,

5-12=-99/60, 7-9=-1034/0, 7-10=0/745,

6-10=-917/0, 6-11=0/292

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP DSS or SS or 2400F 2.0E
- 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 26,2025



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

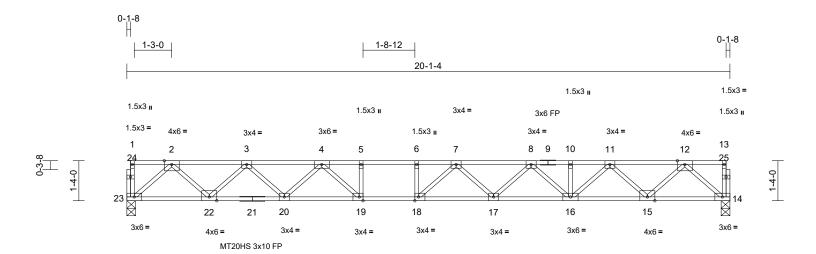
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	WHITE OAK HOMES	
4493316	F10	Floor	6	1	Job Reference (optional)	171629979

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:28 $ID: ErDzy9B_XKUajEKvKRv854yy6yR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:38.4

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	0.58	Vert(LL)	-0.35	17-18	>680	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.48	17-18	>494	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.08	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 2400F 2.0E or 2x4 SP DSS or 2x4 SP

SS(flat)

BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP

SS(flat)

WEBS 2x4 SP No.3(flat)

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

Max Grav 14=1086 (LC 1), 23=1086 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

1-23=-40/0, 13-14=-35/0, 1-2=-2/0,

2-3=-2035/0, 3-4=-3386/0, 4-5=-4371/0, 5-6=-4371/0, 6-7=-4371/0, 7-8=-4245/0,

8-10=-3451/0, 10-11=-3451/0, 11-12=-2028/0, 12-13=-2/0

BOT CHORD 22-23=0/1179, 20-22=0/2854, 19-20=0/3927,

18-19=0/4371, 17-18=0/4457, 16-17=0/3971,

15-16=0/2841, 14-15=0/1184

WEBS 2-23=-1567/0, 12-14=-1573/0, 2-22=0/1190,

12-15=0/1175, 3-22=-1138/0, 11-15=-1130/0. 3-20=0/740, 11-16=0/829, 4-20=-753/0, 10-16=-72/0, 8-16=-708/0, 8-17=0/381. 7-17=-347/0, 7-18=-411/376, 4-19=0/855,

5-19=-403/0. 6-18=-192/144

NOTES

- 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 DSS or SS or 2400F 2.0E

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 26,2025



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

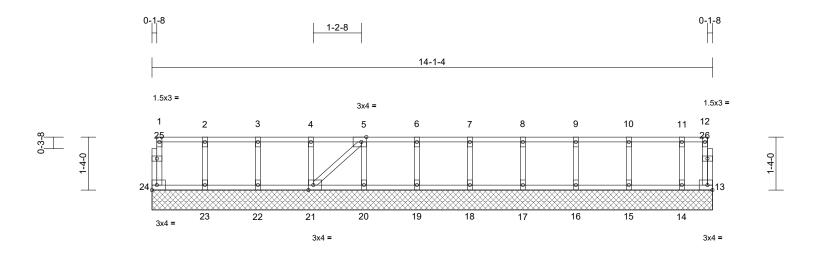
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	WHITE OAK HOMES	
4493316	F11	Floor Supported Gable	1	1	Job Reference (optional)	71629980

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:28 $ID:cWH7h_ImJ5XID7CY4hYBh_yy6vi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ffCPsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4dpxB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4dpxB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4dpxB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4dpxB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4dpxB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4dpxB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4dpxB70Hq3NSgPqxAyAdpxB70Hq3NSgPqxAyAdpxB70Hq3NSqPqxAyAdpxB70Hq3NSqPqxAyAdpxB70Hq3NSqPqxAyAdpxB70Hq3NSqPqxAyAdpxB70Hq3NSqPqxAyAdpxAyAdpxB70Hq3NSqPqxAyAdpx$

Page: 1



Scale = 1:29

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.01	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-S							Weight: 66 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 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) 13=14-1-4, 14=14-1-4, 15=14-1-4, 16=14-1-4, 17=14-1-4, 18=14-1-4, 19=14-1-4, 20=14-1-4, 21=14-1-4,

22=14-1-4, 23=14-1-4, 24=14-1-4 13=12 (LC 1), 14=122 (LC 1), Max Grav 15=152 (LC 1), 16=145 (LC 1),

17=147 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=148 (LC 1), 21=145 (LC 1), 22=146 (LC 1), 23=152 (LC 1), 24=49 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-44/0, 12-13=-11/0, 1-2=-2/0, 2-3=-2/0,

3-4=-2/0, 4-5=-2/0, 5-6=-1/0, 6-7=-1/0, 7-8=-1/0, 8-9=-1/0, 9-10=-1/0, 10-11=-1/0,

11-12=-1/0

BOT CHORD 23-24=0/2, 22-23=0/2, 21-22=0/2, 20-21=0/1,

19-20=0/1, 18-19=0/1, 17-18=0/1, 16-17=0/1,

15-16=0/1, 14-15=0/1, 13-14=0/1 WEBS 2-23=-138/0, 3-22=-133/0, 4-21=-134/0,

5-20=-135/0. 6-19=-133/0. 7-18=-133/0.

8-17=-134/0, 9-16=-132/0, 10-15=-138/0,

11-14=-111/0, 5-21=0/2

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) 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)
- 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 26,2025



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

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



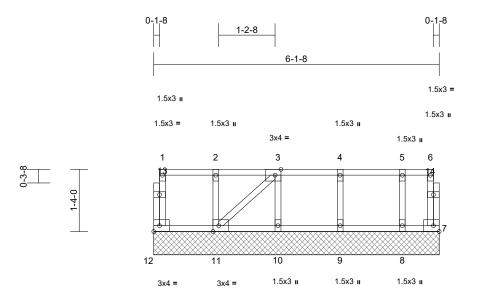
Ply Job Truss Truss Type Qty WHITE OAK HOMES 171629981 4493316 F12 Floor Supported Gable 2 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 09:51:28 ID:k0a2PRSvF4AvH7h1KwHEjkyy6vV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

3x4 =

Page: 1



Scale = 1:24.7

			-	1								-
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/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	вс	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 33 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) 7=6-1-8, 8=6-1-8, 9=6-1-8, 10=6-1-8, 11=6-1-8, 12=6-1-8

7=14 (LC 1), 8=122 (LC 1), 9=152 Max Grav (LC 1), 10=146 (LC 1), 11=151 (LC

1), 12=48 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-44/0, 6-7=-12/0, 1-2=-2/0, 2-3=-2/0,

3-4=-1/0, 4-5=-1/0, 5-6=-1/0

BOT CHORD 11-12=0/2, 10-11=0/1, 9-10=0/1, 8-9=0/1, 7-8=0/1 WEBS

2-11=-138/0, 3-10=-133/0, 4-9=-138/0, 5-8=-111/0, 3-11=0/2

NOTES

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2 .
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



February 26,2025

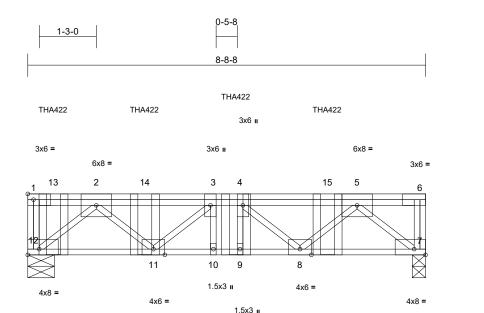


Truss Type Job Truss Qty Ply WHITE OAK HOMES 171629982 4493316 F13 Floor Girder Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 09:51:29 ID:3hxWzrrwYpKJF?WfA0ofXZyy6r8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.2

Plate Offsets (X, Y):	[7:Edge,0-1-8],	[12:Edge,0-1-8]
-----------------------	-----------------	-----------------

1-4-0

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	0.94	Vert(LL)	-0.05	9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.09	9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.03	7	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 2400F 2.0E or 2x4 SP DSS or 2x4 SP BOT CHORD

SS(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

7=0-3-8, 12=0-7-0 REACTIONS (size)

Max Grav 7=1929 (LC 1), 12=2425 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-414/0, 6-7=-30/60, 1-2=0/0,

2-3=-3300/0, 3-4=-4220/0, 4-5=-3275/0,

5-6=0/0

BOT CHORD 11-12=0/2403, 10-11=0/4220, 9-10=0/4220,

8-9=0/4220, 7-8=0/2328

WEBS 5-7=-3030/0, 2-11=0/1310, 5-8=0/1405, 3-11=-1384/0, 4-8=-1427/0, 3-10=-105/265,

4-9=-269/101, 2-12=-3128/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP DSS or SS or 2400F 2.0E
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-12 from the left end to 6-6-12 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: 7-12=-10, 1-6=-196

Concentrated Loads (lb)

Vert: 4=-646 (B), 13=-674 (B), 14=-646 (B), 15=-646

(B)



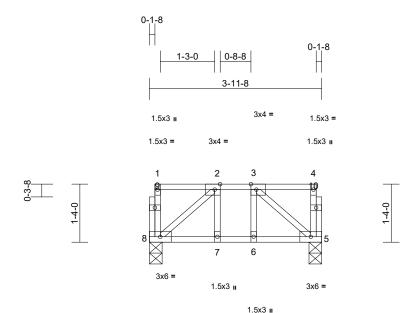
February 26,2025



Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	
4493316	F14	Floor	2	1	.lob Reference (optional)	171629983

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries. Inc. Tue Feb 25 09:51:29 ID:_V??fCrMgDVKvALaJdQ65gyy7_A-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.5

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

				1							i	
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.08	Vert(CT)	0.00	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 25 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 3-11-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Grav 5=198 (LC 1), 8=198 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-8=-63/0, 4-5=-63/0, 1-2=-3/0, 2-3=-160/0,

3-4=-3/0

BOT CHORD 7-8=0/160, 6-7=0/160, 5-6=0/160 WEBS 2-8=-206/0, 3-5=-206/0, 2-7=-13/37,

3-6=-13/37

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All bearings are assumed to be SP No.2 .
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

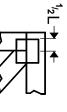


February 26,2025

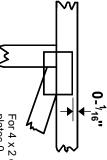


Symbols

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.

ω

တ

S

5

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

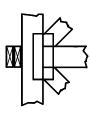
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

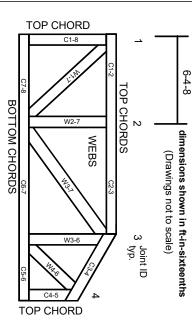
Industry Standards: ANSI/TPI1: National I

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

Plate Connected Wood Trusses

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

© 2023 MiTek® All Rights Reserved

New Street of the Street of th

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.

ယ

- 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.

œ

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.