Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.

2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.

3. Adjust spacing as needed not to exceed

Dimension Notes 1. All exterior wall to wall dimensions are to face of wall unless noted otherwise 2. All interior wall dimensions are to face of stud unless noted otherwise 3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

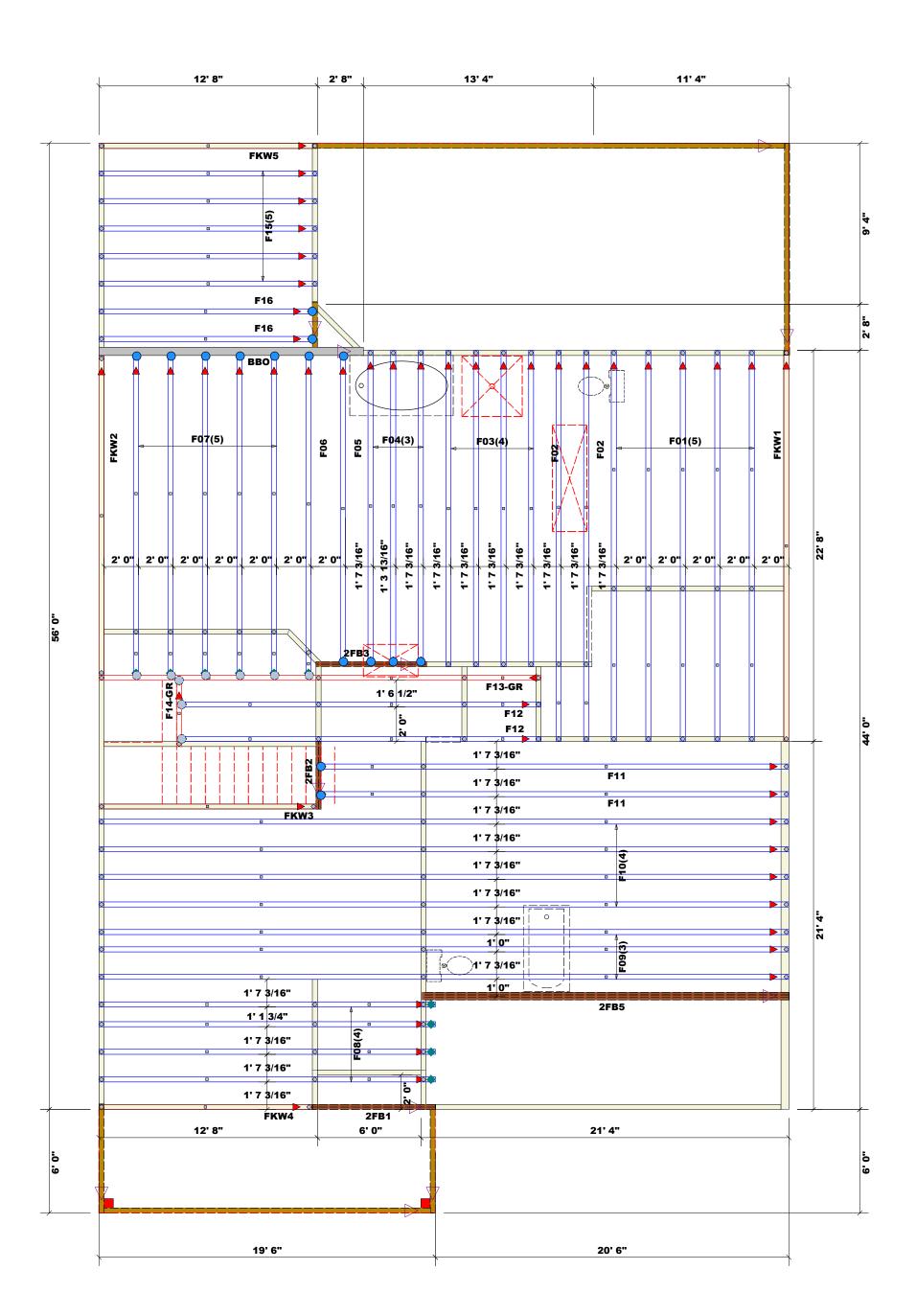
All Walls Shown Are Considered Load Bearing

= Indicates Left End of Truss 🛕 (Reference Engineered Truss Drawing) Do Not Erect Trusses Backwards

WALL SCHE	DULE
1st Floor Walls	
2nd Floor Walls	
Non-Bearing Walls	
Garage Walls Dropped	

		Products		
Net Qty	Plies	Product	Length	PlotID
2	2	1-3/4"x 14" LVL Kerto-S	7' 1 1/2"	2FB1
2	2	1-3/4"x 14" LVL Kerto-S	6' 5"	2FB3
2	2	1-3/4"x 14" LVL Kerto-S	3' 11"	2FB2
3	3	1-3/4"x 23-7/8" LVL Kerto-S	21' 3"	2FB5

Nail Info	ormation	Co	nnec	tor Infor	mation	
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
16d/3-1/2"	16d/3-1/2"	NA	15	USP	HUS410	
10d/3"	10d/3"	Varies	9	USP	MSH422	



соттесн **ROOF & FLOOR**

TRUSSES & BEAMS Reilly Road Industrial Park

Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

dearing reactions less than or equal to 3000# are eemed to comply with the prescriptive Code equirements. The contractor shall refer to the ttached Tables (derived from the prescriptive Code equirements) to determine the minimum foundation ize and number of wood studs required to support eactions greater than 3000# but not greater than 5000#. A registered design professional shall be etained to design the support system for any eaction that exceeds those specified in the attached ables. A registered design professional shall be etained to design the support system for all eactions that exceed 15000#.

Sales Area

Sales Area

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER END REACTION (UP TO) REQ'D STUDS FOR (3) PLY HEADER END REACTION
(UP TO)
REQ'D STUDS FOR
(4) PLY HEADER 3400 1 1700 1 2550 1 3400 2 6800 2 5100 2 5100 3 7650 3 10200 3 6800 4 10200 4 13600 4 8500 5 12750 5 17000 5 10200 6 15300 6 11900 7 13600 8 15300 9

Hill Road Lillington / Harnett Johnnie Baggett 778 Beacon 2nd Floor 8/6/25 SALES REP. DRAWN BY CITY / CO. DATE REV. ADDRESS

Gerogian Site Name JOB NAME BUILDER

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 250231-B

Lot 48 Duncans Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I75443976 thru I75443996

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

North Carolina COA: C-0844



August 7,2025

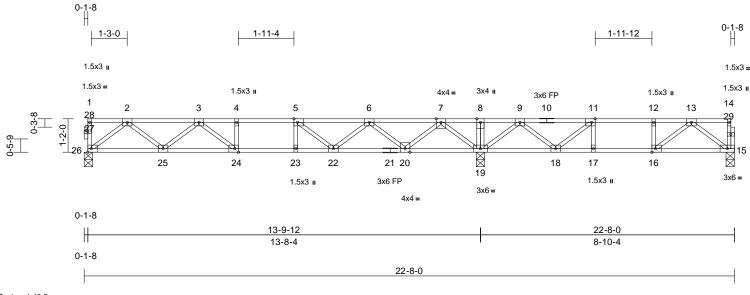
Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-B	F01	FLOOR	5	1	Job Reference (optional)	175443976

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:18 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:40.2

Plate Offsets (X, Y):	[5:0-1-8,Edge], [11:0-	·1-8,Edge], [16:0-1-8	3,Edge], [24:0-1-8,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	0.37	Vert(LL)	-0.09	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.12	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 112 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 6-0-0 oc

bracing.

REACTIONS (size) 15=0-3-8, 19=0-3-8, 26=0-3-8 Max Grav 15=395 (LC 4), 19=1482 (LC 1),

26=676 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-36/0, 14-15=-55/0, 1-2=0/0, 2-3=-1280/0, 3-4=-1962/0, 4-5=-1962/0, 5-6=-1669/0, 6-7=-719/118, 7-8=0/1338,

8-9=0/1338, 9-11=-352/444, 11-12=-680/149, 12-13=-680/149, 13-14=-3/0

BOT CHORD 25-26=0/795, 24-25=0/1735, 23-24=0/1962, 22-23=0/1962, 20-22=0/1355, 19-20=-343/60,

18-19=-682/17, 17-18=-149/680, 16-17=-149/680, 15-16=-16/437

WEBS 8-19=-119/0, 2-26=-1014/0, 2-25=0/632,

3-25=-593/0, 3-24=-16/392, 4-24=-174/2, 7-19=-1294/0, 7-20=0/905, 6-20=-871/0, 6-22=0/466, 5-22=-545/0, 5-23=-52/124, 13-15=-544/20, 13-16=-170/310, 9-19=-914/0, 9-18=0/578, 11-18=-635/0,

11-17=0/133, 12-16=-163/73

NOTES

- Unbalanced floor live loads have been considered for
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.

- 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



August 7,2025

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

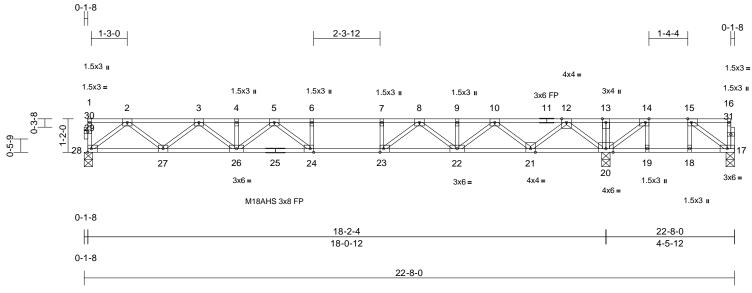
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 48 Duncans Creek	
250231-B	F02	FLOOR	2	1	Job Reference (optional)	175443977

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:19 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:40.2

Plate Offsets (X, Y): [14:0-1-8,Edge], [15:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge]

Landina	(nof)	Sunnium.	4.7.0	csı		DEFL		(100)	I/defl	1 /4	PLATES	GRIP
Loading	(psf)	Spacing	1-7-3	CSI		DELL	ın	(loc)	ı/deii	L/a	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.23	24-26	>940	480	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.32	24-26	>683	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 114 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(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 6-0-0 oc

bracing.

17=0-3-8, 20=0-3-8, 28=0-3-8 **REACTIONS** (size)

Max Uplift 17=-210 (LC 3)

17=112 (LC 4), 20=1311 (LC 1), Max Grav

28=730 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-28=-28/0, 16-17=-116/0, 1-2=0/0,

2-3=-1488/0, 3-4=-2486/0, 4-5=-2486/0, 5-6=-2849/0, 6-7=-2849/0, 7-8=-2849/0, 8-9=-2046/0, 9-10=-2046/0, 10-12=-777/0,

12-13=0/1153, 13-14=0/1153, 14-15=-37/490, 15-16=-7/0

BOT CHORD 27-28=0/872, 26-27=0/2082, 24-26=0/2754,

23-24=0/2849, 22-23=0/2470, 21-22=0/1499, 20-21=-88/17, 19-20=-490/37,

18-19=-490/37, 17-18=-490/37

13-20=-39/61, 2-28=-1113/0, 2-27=0/802,

3-27=-774/0, 3-26=0/515, 4-26=-69/0, 12-20=-1377/0, 12-21=0/998, 10-21=-947/0, 10-22=0/705, 9-22=-97/0, 8-22=-550/0, 8-23=0/674, 5-26=-343/0, 5-24=-125/404, 6-24=-198/8, 7-23=-310/0, 15-17=-41/611, 14-20=-938/0, 14-19=0/224, 15-18=-191/0

NOTES

WFBS

- 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.

- Plates checked for a plus or minus 1 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 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.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



August 7,2025

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/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	Lot 48 Duncans Creek	
250231-B	F03	FLOOR	4	1	Job Reference (optional)	175443978

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:19 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1

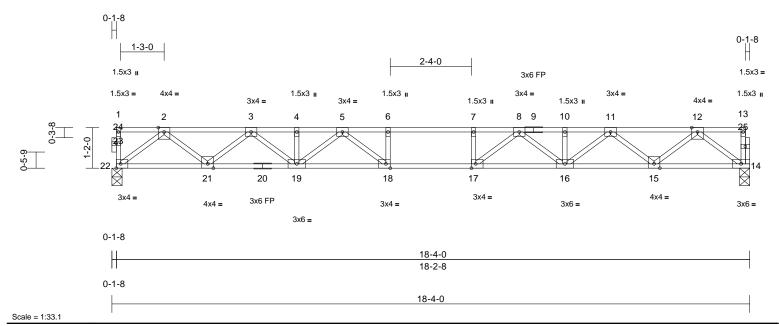


Plate Offsets (X, Y): [17:0-1-8,Edge], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.25	17-18	>875	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.34	17-18	>635	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(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=0-3-8, 22=0-3-8

Max Grav 14=787 (LC 1), 22=792 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=0/0, 2-3=-1642/0, 3-4=-2786/0, 4-5=-2786/0,

5-6=-3382/0, 6-7=-3382/0, 7-8=-3382/0, 8-10=-2806/0, 10-11=-2806/0, 11-12=-1675/0,

12-13=-2/0

BOT CHORD 21-22=0/951, 19-21=0/2306, 18-19=0/3137,

17-18=0/3382, 16-17=0/3150, 15-16=0/2333,

14-15=0/990

WEBS 2-22=-1214/0, 2-21=0/899, 3-21=-864/0,

3-19=0/612, 12-14=-1240/0, 12-15=0/892, 11-15=-857/0, 11-16=0/604, 10-16=-82/0, 4-19=-83/0, 5-19=-448/0, 5-18=-24/589, 8-16=-439/0, 8-17=-36/578, 7-17=-270/0,

6-18=-275/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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



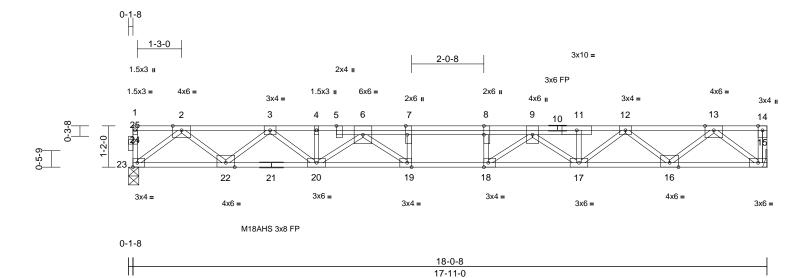
August 7,2025



Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-B	F04	Floor	3	1	Job Reference (optional)	175443979

Run: 25.20 S May 15 2025 Print: 25.2.0 S May 15 2025 MiTek Industries. Inc. Thu Aug 07 15:26:33 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-B_6GtykfJSYU0hKwPXvV86ie9gMxx9TSOCKNxAyqMf4

Page: 1



Scale = 1:32.6

Plate Offsets (X, Y): [4:0-1-8,0-6-12], [7:0-3-0,Edge], [8:0-3-0,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.24	18-19	>880	480	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.33	18-19	>640	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		, ,					Weight: 100 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(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

0-1-8

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

bracing.

REACTIONS (lb/size) 15=975/ Mechanical, 23=975/0-3-8 **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD 2-3=-2014/0, 3-4=-3396/0, 4-5=-3396/0,

5-6=-3397/0, 6-7=-4335/0, 7-8=-4335/0, 8-9=-4335/0, 9-10=-3443/0, 10-11=-3437/0,

11-12=-3443/0, 12-13=-2054/0

BOT CHORD 22-23=0/1168, 21-22=0/2827, 20-21=0/2827,

19-20=0/3961, 18-19=0/4335, 17-18=0/4046,

16-17=0/2856, 15-16=0/1219

2-23=-1492/0, 2-22=0/1101, 3-22=-1058/0, **WEBS**

3-20=0/726, 6-20=-705/0, 6-19=0/784, 7-19=-423/0, 13-15=-1529/0, 13-16=0/1087, 12-16=-1043/0, 12-17=0/750, 9-17=-753/0,

9-18=-82/721, 8-18=-385/50

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 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



August 7,2025

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

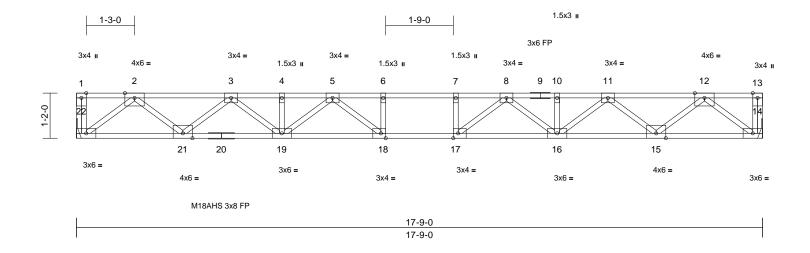
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 48 Duncans Creek	
250231-B	F05	FLOOR	1	1	Job Reference (optional)	175443980

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:19 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:29.8

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	0.33	Vert(LL)	-0.25	17-18	>841		M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	вс	0.75	Vert(CT)	-0.34	17-18	>612	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 91 lb	FT = 20%F, 11%E

LUMBER LOAD CASE(S) Standard

2x4 SP 2400F 2.0E(flat) TOP CHORD 2x4 SP No.1(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) 14= Mechanical, 22= Mechanical

Max Grav 14=963 (LC 1), 22=963 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-39/0, 13-14=-39/0, 1-2=0/0,

2-3=-2023/0, 3-4=-3369/0, 4-5=-3369/0, 5-6=-4004/0, 6-7=-4004/0, 7-8=-4004/0,

8-10=-3369/0, 10-11=-3369/0, 11-12=-2023/0,

12-13=0/0

BOT CHORD 21-22=0/1202, 19-21=0/2811, 18-19=0/3763,

17-18=0/4004, 16-17=0/3763, 15-16=0/2811,

14-15=0/1202

WEBS 2-22=-1508/0, 2-21=0/1069, 3-21=-1026/0,

3-19=0/712, 12-14=-1508/0, 12-15=0/1069, 11-15=-1026/0, 11-16=0/712, 10-16=-104/0, 8-16=-504/0, 8-17=-85/626, 4-19=-104/0, 5-19=-504/0, 5-18=-85/626, 6-18=-296/3,

7-17=-296/3

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.



August 7,2025

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/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	Lot 48 Duncans Creek	
250231-B	F06	Floor	1	1	Job Reference (optional)	5443981

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:20 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

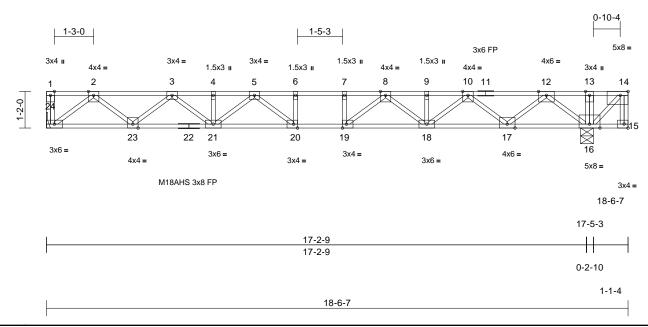


Plate Offsets (X, Y): [14:0-3-0,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
	,	-					111	(IUC)			_	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.26	19-20	>803	480	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.33	20-21	>627	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.06	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%F, 11%E

LUMBER

Scale = 1:36.7

TOP CHORD 2x4 SP No.1(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 6-0-0 oc bracing

REACTIONS

(size) 16=0-4-15, 24= Mechanical Max Grav 16=3307 (LC 1), 24=906 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-39/0, 14-15=-16/0, 1-2=0/0,

2-3=-1882/0, 3-4=-3090/0, 4-5=-3090/0, 5-6=-3548/95, 6-7=-3548/95, 7-8=-3548/95, 8-9=-2835/715, 9-10=-2835/715, 10-12=-1438/1406, 12-13=0/2262

13-14=0/2261

BOT CHORD 23-24=0/1128. 21-23=0/2606. 20-21=0/3419.

19-20=-95/3548, 18-19=-438/3264, 17-18=-1043/2254, 16-17=-1801/595,

15-16=0/0

WFBS 13-16=-152/0, 2-24=-1415/0, 2-23=0/983, 3-23=-942/0, 3-21=-27/618, 4-21=-91/1,

12-16=-1648/0. 12-17=0/1254.

10-17=-1217/0, 10-18=0/903, 9-18=-114/0, 8-18=-716/0, 8-19=-3/919, 5-21=-420/108, 5-20=-461/460, 6-20=-209/154, 7-19=-399/0,

14-16=-3096/0

NOTES

- Unbalanced floor live loads have been considered for
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1400 lb down at 18-4-15, and 700 lb down at 18-4-15 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 15-24=-10. 1-14=-100

Concentrated Loads (lb)

Vert: 14=-2100 (F=-1400, B=-700)



August 7,2025

Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-B	F07	Floor	5	1	Job Reference (optional)	75443982

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:20 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

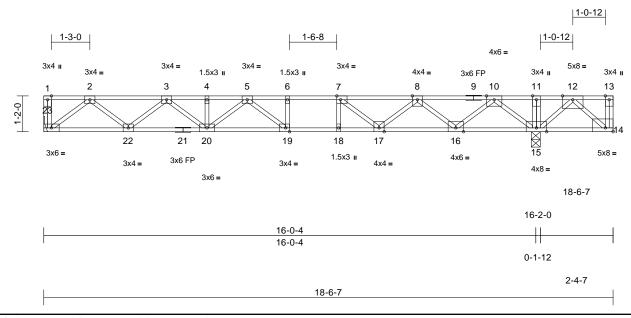


Plate Offsets (X, Y): [7:0-1-8,Edge], [14:Edge,0-1-8], [19:0-1-8,Edge]

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	0.91	Vert(LL)	-0.19	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.25	19-20	>768	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%F, 11%E

LUMBER

Scale = 1:37.5

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat) *Except* 21-14:2x4 SP

2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat) *Except* 14-12:2x4 SP No.2(flat)

OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins. except end verticals. BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS 15=0-3-8, 23= Mechanical (size)

Max Grav 15=2765 (LC 1), 23=813 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-23=-39/0, 13-14=-1447/0, 1-2=0/0,

2-3=-1647/79, 3-4=-2631/311, 4-5=-2631/311,

5-6=-2778/987, 6-7=-2778/987, 7-8=-2237/1559, 8-10=-1011/2408, 10-11=0/3441, 11-12=0/3441, 12-13=0/0

BOT CHORD 22-23=-13/1004, 20-22=-161/2264,

19-20=-552/2836, 18-19=-987/2778, 17-18=-987/2778, 16-17=-1981/1770, 15-16=-2876/219, 14-15=-1648/0

WFBS

11-15=-135/0, 10-15=-1695/0, 10-16=0/1279, 8-16=-1226/0. 8-17=0/936. 7-17=-1263/0. 7-18=-26/424, 2-23=-1259/17, 2-22=-85/837, 3-22=-803/107, 3-20=-192/470, 4-20=-76/13,

5-20=-262/307, 5-19=-770/250, 6-19=-107/198, 12-14=0/2194,

12-15=-2384/0

NOTES

- Unbalanced floor live loads have been considered for 1)
- Plates checked for a plus or minus 1 degree rotation about its center.

- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 18-4-15 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 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: 14-23=-10, 1-13=-100 Concentrated Loads (lb) Vert: 13=-1400 (F=-700)



August 7,2025

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/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	Lot 48 Duncans Creek	
250231-B	F08	FLOOR	4	1	Job Reference (optional)	175443983

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:20 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1

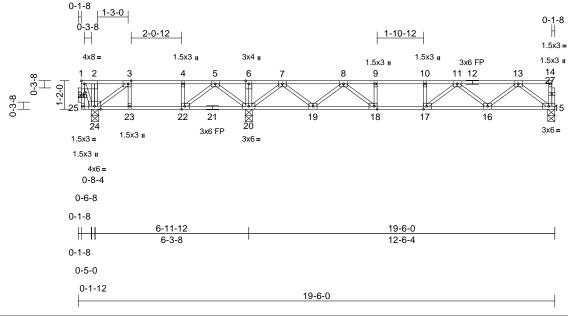


Plate Offsets (X, Y): [1:Edge,0-1-8], [3:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [22:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.07	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.10	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.01	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 100 lb	FT = 20%F, 11%E

LUMBER

Scale = 1:47.1

TOP CHORD 2x4 SP No.1(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 6-0-0 oc bracing.

REACTIONS 15=0-3-8, 20=0-3-8, 24=0-3-8 (size) 15=496 (LC 11), 20=953 (LC 4), Max Grav

24=1789 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-25=-23/0, 14-15=-29/0, 1-2=0/785,

2-3=0/786, 3-4=-77/695, 4-5=-77/695,

5-6=0/938, 6-7=0/938, 7-8=-632/289, 8-9=-1328/0, 9-10=-1328/0, 10-11=-1328/0,

11-13=-949/0, 13-14=-2/0

BOT CHORD 24-25=-1/0, 23-24=-695/77, 22-23=-695/77,

20-22=-724/0, 19-20=-463/198, 18-19=-114/1054, 17-18=0/1328

16-17=0/1248, 15-16=0/609 2-24=-97/0. 6-20=-106/0. 3-24=-495/0.

WEBS 5-20=-471/0, 5-22=0/339, 4-22=-177/0, 3-23=-23/67, 7-20=-942/0, 7-19=0/611,

> 8-19=-617/0. 13-15=-762/0. 13-16=0/443. 11-16=-390/0. 11-17=-102/223. 8-18=0/494. 9-18=-224/0, 10-17=-115/44, 1-24=-1653/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.

- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 15-25=-8, 1-14=-80 Concentrated Loads (lb)

Vert: 1=-1452 (F=-300)



August 7,2025

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

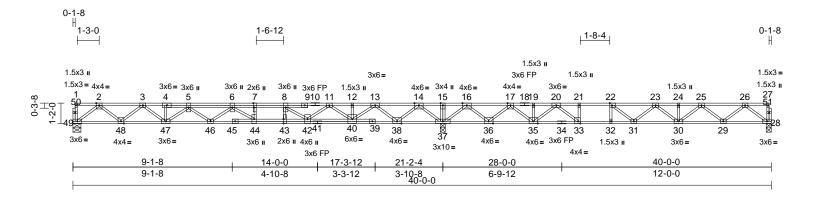
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Lot 48 Duncans Creek	
250231-B	F09	FLOOR	3	1	Job Reference (optional)	175443984

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:20 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:66

Plate Offsets (X, Y):	[7:0-3-0,Edge], [22:0-	-1-8,Edge], [33:0-1	-8,Edge], [43:0-3-0,E	dge]
-----------------------	------------------------	---------------------	-----------------------	------

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.28	44-46	>898	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.36	44-46	>697	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.05	28	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 224 lb	FT = 20%F, 11%E

LUMBER TOP CHORD 2x4 SP No.1(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 2-2-0 oc

bracing

28=0-3-8, 37=0-3-8, 49=0-5-8 REACTIONS (size) Max Grav 28=697 (LC 4), 37=2123 (LC 1),

49=802 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-49=-28/0, 27-28=-29/0, 1-2=-2/0, 2-3=-1712/0, 3-4=-2879/0, 4-5=-2884/0, 5-6=-3609/0, 6-7=-3733/0, 7-8=-3733/0, 8-11=-3019/180, 11-12=-1746/671,

12-13=-1746/671, 13-14=0/1410, 14-15=0/3526, 15-16=0/3526, 16-17=0/1573,

17-19=-1399/931, 19-20=-1399/931, 20-21=-2506/283, 21-22=-2506/283, 22-23=-2646/29, 23-24=-2343/0,

24-25=-2343/0, 25-26=-1451/0, 26-27=-2/0 BOT CHORD 48-49=0/1009, 47-48=0/2390, 46-47=0/3429,

44-46=0/3824, 43-44=0/3733, 42-43=0/3733, 40-42=-412/2441, 38-40=-985/888, 37-38=-2153/0, 36-37=-2257/0, 35-36=-1240/746, 33-35=-651/1950, 32-33=-283/2506, 31-32=-283/2506 30-31=0/2649, 29-30=0/2001, 28-29=0/872

WEBS 15-37=-92/0, 2-49=-1264/0, 2-48=0/915,

3-48=-883/0, 3-47=0/624, 4-47=0/50, 14-37=-1723/0, 14-38=0/1369,

13-38=-1339/0, 13-40=0/1142, 12-40=-87/0, 11-40=-943/0, 11-42=0/794, 8-42=-1103/0, 5-47=-686/0, 5-46=-33/229, 6-46=-273/86, 6-44=-581/128, 7-44=-58/160, 8-43=0/336, 26-28=-1092/0, 26-29=0/754, 25-29=-715/0,

25-30=-42/436, 24-30=-19/15, 16-37=-1592/0, 16-36=0/1244,

17-36=-1193/0, 17-35=0/959, 19-35=-117/0, 20-35=-839/0, 20-33=0/1051, 23-30=-391/37, 23-31=-273/23, 22-31=0/574, 22-32=-307/0,

21-33=-406/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Required 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



August 7,2025

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

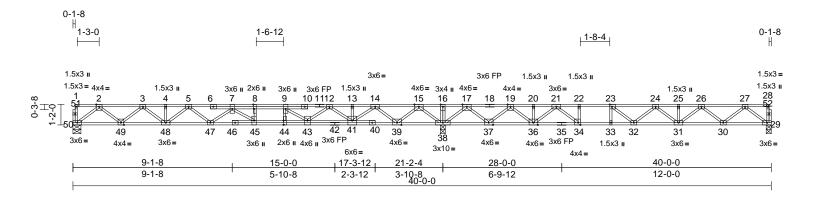
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Lot 48 Duncans Creek	
250231-B	F10	Floor	4	1	Job Reference (optional)	175443985

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:20 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66

Plate Offsets (X, Y):	[8:0-3-0,Edge], [23	:0-1-8,Edge], [34:0-	1-8,Edge], [44:0-3-0,Edge]
-----------------------	---------------------	----------------------	----------------------------

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.29	45-47	>874	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.37	45-47	>677	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.05	29	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 220 lb	FT = 20%F, 11%E

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

BRACING

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

bracing.

29=0-3-8, 38=0-3-8, 50=0-5-8 REACTIONS (size) 29=697 (LC 4), 38=2126 (LC 1), Max Grav

50=801 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-50=-28/0, 28-29=-29/0, 1-2=-2/0, 2-3=-1709/0, 3-4=-2876/0, 4-5=-2876/0, 5-7=-3468/0, 7-8=-3724/0, 8-9=-3724/0, 9-12=-3001/183, 12-13=-1726/673,

13-14=-1726/673, 14-15=0/1426, 15-16=0/3549, 16-17=0/3549, 17-19=0/1596, 19-20=-1397/950, 20-21=-1397/950, 21-22=-2504/297, 22-23=-2504/297,

23-24=-2645/40, 24-25=-2342/0, 25-26=-2342/0. 26-27=-1451/0. 27-28=-2/0 49-50=0/1008. 48-49=0/2384. 47-48=0/3227.

45-47=0/3745, 44-45=0/3724, 43-44=0/3724, 41-43=-414/2421, 39-41=-988/866, 38-39=-2174/0. 37-38=-2278/0. 36-37=-1261/743, 34-36=-668/1948, 33-34=-297/2504, 32-33=-297/2504.

31-32=0/2648, 30-31=0/2000, 29-30=0/872

WEBS 16-38=-92/0, 2-50=-1262/0, 2-49=0/912,

3-49=-879/0, 3-48=0/628, 4-48=-86/0, 5-48=-448/0, 5-47=-22/308, 7-47=-357/77,

7-45=-525/166, 8-45=-82/123, 15-38=-1725/0, 15-39=0/1370,

14-39=-1341/0, 14-41=0/1144, 13-41=-88/0, 12-41=-944/0, 12-43=0/796, 9-43=-1110/0, 9-44=0/342, 27-29=-1092/0, 27-30=0/754, 26-30=-715/0, 26-31=-44/436, 25-31=-19/15, 17-38=-1595/0. 17-37=0/1246. 19-37=-1195/0. 19-36=0/961. 20-36=-117/0.

21-36=-841/0, 21-34=0/1054, 22-34=-407/0, 24-31=-391/39, 24-32=-275/20, 23-32=0/577, 23-33=-309/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation
- Required 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



August 7,2025

BOT CHORD

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

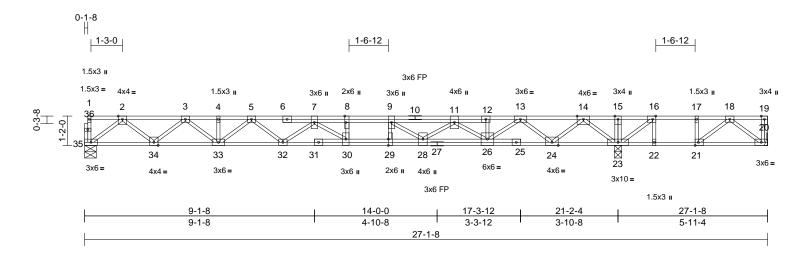
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 48 Duncans Creek	
250231-B	F11	FLOOR	2	1	Job Reference (optional)	175443986

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:20 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:45.8

Plate Offsets (X, Y):	[8:0-3-0,Edge], [16:0	-1-8,Edge], [21:0-1	-8,Edge], [29:0-	3-0,Edge]
-----------------------	-----------------------	---------------------	------------------	-----------

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.29	30-32	>872	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.40	30-32	>634	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.06	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 160 lb	FT = 20%F, 11%E

LUMBER TOP CHORD 2x4 SP No.1(flat) *Except* 10-19:2x4 SP

2400F 2.0E(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WFBS **OTHERS** 2x4 SP No.3(flat)

BRACING

BOT CHORD

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.

REACTIONS (size) 20= Mechanical, 23=0-3-8,

35=0-5-8 Max Uplift 20=-238 (LC 3)

20=187 (LC 4), 23=1561 (LC 1), Max Grav

35=841 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-35=-28/0, 19-20=-34/21, 1-2=-2/0,

2-3=-1810/0, 3-4=-3079/0, 4-5=-3079/0, 5-7=-3763/0, 7-8=-4225/0, 8-9=-4225/0, 9-11=-3712/0, 11-12=-2360/0, 12-13=-2355/0,

13-14=-610/0, 14-15=0/1770, 15-16=0/1770, 16-17=-98/938, 17-18=-98/938, 18-19=0/0

BOT CHORD 34-35=0/1061, 33-34=0/2535, 32-33=0/3476,

30-32=0/4119, 29-30=0/4225, 28-29=0/4225, 26-28=0/3228, 24-26=0/1541, 23-24=-461/0,

22-23=-938/98. 21-22=-938/98.

20-21=-340/173

WEBS

15-23=0/148, 2-35=-1329/0, 14-23=-1649/0, 2-34=0/975, 14-24=0/1233, 3-34=-943/0, 13-24=-1228/0, 3-33=0/695, 4-33=-87/0, 13-26=0/1023, 12-26=0/35, 5-33=-507/0, 11-26=-1065/0, 5-32=0/370, 11-28=0/651, 7-32=-456/0, 9-28=-788/0, 7-30=-203/481, 8-30=-194/22, 9-29=-42/227, 18-20=-217/427, 16-23=-1260/0, 18-21=-763/0, 16-22=0/242, 17-21=0/343

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 20
- Required 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



August 7,2025

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/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	Lot 48 Duncans Creek	
250231-B	F12	Floor	2	1	Job Reference (optional)	175443987

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

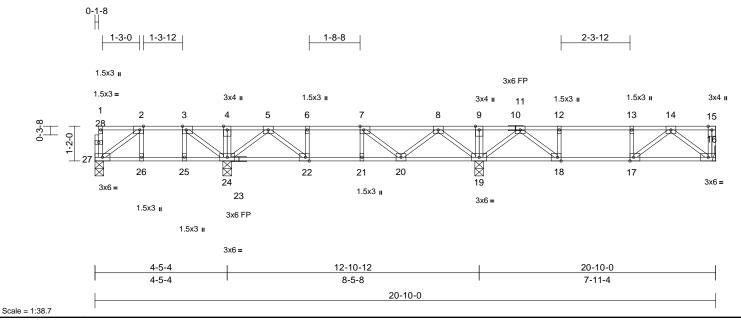


Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [7:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [22:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.04	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 106 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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, Except:

6-0-0 oc bracing: 19-20,18-19.

REACTIONS (size) 16= Mechanical, 19=0-3-8, 24=0-3-8, 27=0-3-8

Max Grav 16=324 (LC 5), 19=792 (LC 11),

24=551 (LC 16), 27=190 (LC 14)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-53/0, 15-16=-46/0, 1-2=-3/0,

2-3=-199/0, 3-4=-33/116, 4-5=-33/116, 5-6=-636/0, 6-7=-636/0, 7-8=-491/0, 8-9=0/394, 9-11=0/394, 11-12=-542/0, 12-13=-542/0, 13-14=-542/0, 14-15=0/0

BOT CHORD 26-27=0/199, 25-26=0/199, 24-25=0/199,

22-24=0/365, 21-22=0/636, 20-21=0/636, 19-20=-11/298, 18-19=-102/259,

17-18=0/542, 16-17=0/351

WEBS 4-24=-125/0, 9-19=-106/0, 2-27=-242/0,

3-24=-292/0, 2-26=-13/14, 3-25=0/33, 8-19=-603/0, 5-24=-475/0, 8-20=0/293 5-22=0/346, 7-20=-253/0, 6-22=-162/0, 7-21=-44/17, 11-19=-528/0, 11-18=0/440,

14-16=-440/0, 14-17=-10/244 13-17=-140/11, 12-18=-228/0

NOTES

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

- Plates checked for a plus or minus 1 degree rotation
- 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



August 7,2025

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

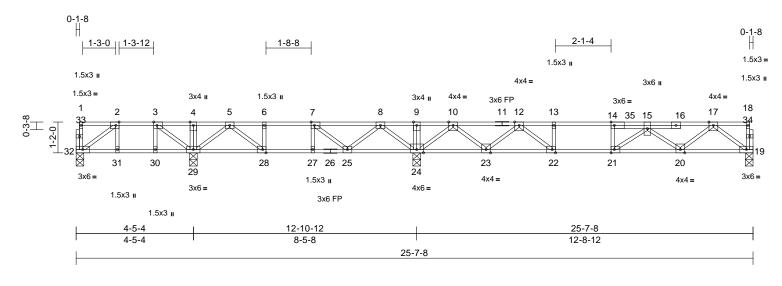
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 48 Duncans Creek	
250231-B	F13-GR	Floor Girder	1	1	Job Reference (optional)	175443988

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.6

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [7:0-1-8,Edge], [14:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,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	0.69	Vert(LL)	-0.15	20-21	>996	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.20	20-21	>754	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.03	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 132 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) *Except* 11-18:2x4 SP

2400F 2.0E(flat) 2x4 SP No.1(flat)

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

OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (size) 19=0-3-8, 24=0-3-8, 29=0-3-8,

32=0-3-8

Max Grav 19=835 (LC 13), 24=1448 (LC 11), 29=668 (LC 3), 32=214 (LC 14)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-32=-72/0, 18-19=-54/0, 1-2=-4/0,

2-3=-200/11, 3-4=0/222, 4-5=0/222,

5-6=-622/95, 6-7=-622/95, 7-8=-360/261 8-9=0/1004, 9-10=0/1004, 10-12=-1096/15,

12-13=-2403/0, 13-14=-2403/0,

14-15=-2421/0, 15-17=-1776/0, 17-18=-3/0

BOT CHORD 31-32=-11/200, 30-31=-11/200,

29-30=-11/200, 28-29=-73/362, 27-28=-95/622, 25-27=-95/622,

24-25=-413/74, 23-24=-239/425,

22-23=0/1787, 21-22=0/2403, 20-21=0/2478,

19-20=0/1027

4-29=-145/0, 9-24=-95/0, 2-32=-243/15,

3-29=-412/0. 2-31=-29/2. 3-30=0/50. 8-24=-833/0, 5-29=-543/0, 8-25=0/456

5-28=-28/337, 7-25=-458/0, 6-28=-167/13,

7-27=-14/67, 10-24=-1357/0, 10-23=0/912, 12-23=-945/0, 17-19=-1284/0, 17-20=0/967

15-20=-901/0, 15-21=-315/191, 12-22=0/974,

13-22=-460/0, 14-21=-109/89

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Recommend 2x6 strongbacks, on edge, spaced at 4) 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 315 lb down at 20-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 19-32=-10, 1-18=-100

Concentrated Loads (lb)

Vert: 35=-251 (F)



August 7,2025

NOTES

WEBS

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

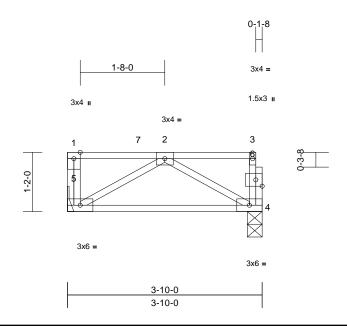
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 48 Duncans Creek	
250231-B	F14-GR	Floor Girder	1	1	Job Reference (optional)	175443989

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:22.7

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.38	Vert(LL)	n/a	` -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%F, 11%E

Concentrated Loads (lb)

Vert: 3=-283 (F), 7=-261 (F)

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

BRACING

LUMBER

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

bracing.

REACTIONS 4=0-3-8, 5= Mechanical (size) Max Grav 4=523 (LC 1), 5=331 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-109/0, 3-4=-312/0, 1-2=0/0, 2-3=-19/0

BOT CHORD 4-5=0/357

WFBS 2-4=-391/0, 2-5=-413/0

NOTES

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 261 lb down at 1-4-12, and 283 lb down at 3-7-12 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-5=-8, 1-3=-80



August 7,2025

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

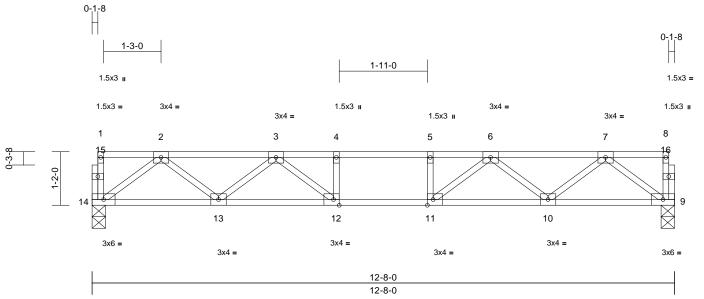
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 48 Duncans Creek	
250231-B	F15	Floor	5	1	Job Reference (optional)	175443990

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 $ID: 3uY_8Oep1_ZOjqzSUMIn8uyqc9d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:25.1

Plate Offsets (X, Y): [11:0-1-8,Edge], [12:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.07	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.09	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(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, 14=0-3-8

Max Grav 9=541 (LC 1), 14=541 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-29/0, 8-9=-29/0, 1-2=-2/0, 2-3=-1057/0,

3-4=-1596/0, 4-5=-1596/0, 5-6=-1596/0,

6-7=-1057/0, 7-8=-2/0

BOT CHORD 13-14=0/668, 12-13=0/1418, 11-12=0/1596,

10-11=0/1418, 9-10=0/668

WEBS 7-9=-836/0, 2-14=-836/0, 7-10=0/506,

2-13=0/506, 6-10=-470/0, 3-13=-470/0, 6-11=0/388, 3-12=0/388, 4-12=-183/0,

5-11=-183/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.

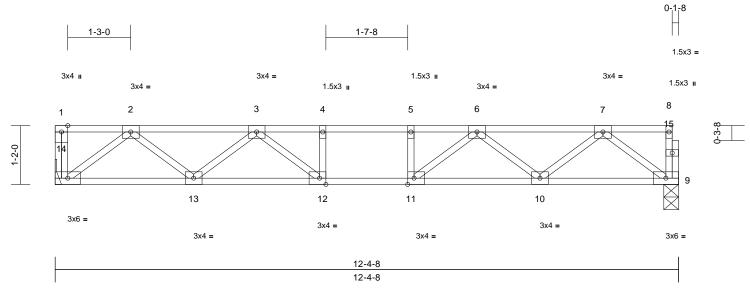
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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	Lot 48 Duncans Creek	
250231-B	F16	Floor	2	1	Job Reference (optional)	175443991

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 ID:YdACVM3molzQPD8A1DQ_2Gyqc94-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:22.9

Plate Offsets	(X,	Y):	[11:0-1-8,Edge],	[12:0-1-8,Edge]
---------------	-----	-----	------------------	-----------------

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.06	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.32	Vert(CT)	-0.08	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 (size) 9=0-3-8, 14= Mechanical Max Grav 9=528 (LC 1), 14=533 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-32/0, 8-9=-29/0, 1-2=0/0, 2-3=-1025/0, 3-4=-1527/0, 4-5=-1527/0, 5-6=-1527/0,

6-7=-1025/0, 7-8=-2/0

BOT CHORD 13-14=0/651, 12-13=0/1371, 11-12=0/1527,

10-11=0/1371, 9-10=0/651

WEBS 7-9=-814/0, 2-14=-817/0, 7-10=0/487, 2-13=0/487, 6-10=-451/0, 3-13=-450/0,

6-11=0/352, 3-12=0/352, 4-12=-163/0,

5-11=-163/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



August 7,2025

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)

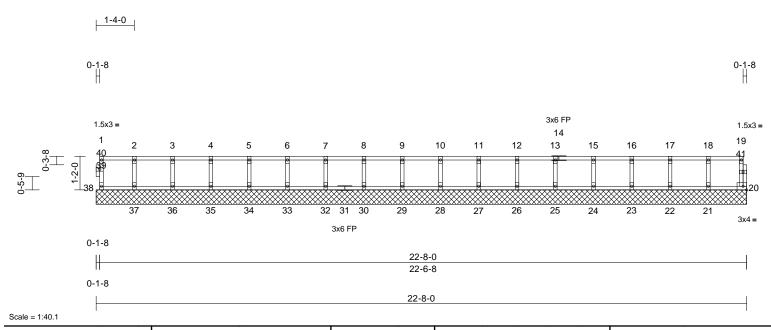


Job Truss Truss Type Qty Ply Lot 48 Duncans Creek 175443992 250231-B FKW1 Floor Supported Gable Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 93 lb	FT = 20%F, 11%E

LUMBER

2x4 SP No.1(flat) TOP CHORD 2x4 SP No.1(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) 20=22-8-0, 21=22-8-0, 22=22-8-0, 23=22-8-0, 24=22-8-0, 25=22-8-0, 26=22-8-0, 27=22-8-0, 28=22-8-0, 29=22-8-0, 30=22-8-0, 32=22-8-0, 33=22-8-0, 34=22-8-0, 35=22-8-0, 36=22-8-0, 37=22-8-0, 38=22-8-0

Max Grav 20=54 (LC 1), 21=146 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (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=147 (LC 1), 34=147 (LC 1), 35=146 (LC 1), 36=148 (LC 1), 37=141 (LC 1), 38=57 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-38=-51/0, 19-20=-50/0, 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, 12-13=-8/0, 13-15=-8/0,

> 15-16=-8/0, 16-17=-8/0, 17-18=-8/0, 18-19=-8/0

BOT CHORD 37-38=0/8, 36-37=0/8, 35-36=0/8, 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=0/8, 20-21=0/8

WEBS

2-37=-130/0, 3-36=-134/0, 4-35=-133/0, 5-34=-133/0, 6-33=-133/0, 7-32=-133/0, 8-30=-133/0, 9-29=-133/0, 10-28=-133/0, 11-27=-133/0, 12-26=-133/0, 13-25=-133/0, 15-24=-133/0, 16-23=-133/0, 17-22=-134/0,

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- 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

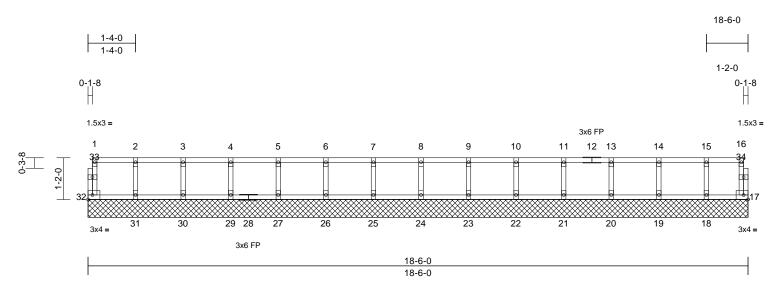
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 48 Duncans Creek	
250231-B	FKW2	Floor Supported Gable	1	1	Job Reference (optional)	175443993

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.3

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 77 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

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

REACTIONS (size)

17=18-6-0, 18=18-6-0, 19=18-6-0, 20=18-6-0, 21=18-6-0, 22=18-6-0, 23=18-6-0, 24=18-6-0, 25=18-6-0, 26=18-6-0, 27=18-6-0, 29=18-6-0, 30=18-6-0, 31=18-6-0, 32=18-6-0 Max Grav 17=46 (LC 1), 18=132 (LC 1), 19=150 (LC 1), 20=146 (LC 1),

21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1), 26=147 (LC 1), 27=147 (LC 1), 29=147 (LC 1), 30=147 (LC 1), 31=145 (LC 1),

32=54 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-32=-50/0, 16-17=-41/0, 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, 11-13=-8/0, 13-14=-8/0, 14-15=-8/0,

15-16=-8/0

BOT CHORD 31-32=0/8, 30-31=0/8, 29-30=0/8, 27-29=0/8,

26-27=0/8, 25-26=0/8, 24-25=0/8, 23-24=0/8, 22-23=0/8, 21-22=0/8, 20-21=0/8, 19-20=0/8,

18-19=0/8, 17-18=0/8

WEBS 2-31=-131/0, 3-30=-134/0, 4-29=-133/0,

5-27=-133/0, 6-26=-133/0, 7-25=-133/0, 8-24=-133/0, 9-23=-133/0, 10-22=-133/0 11-21=-134/0, 13-20=-133/0, 14-19=-136/0,

15-18=-122/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation
- 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.
- 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.

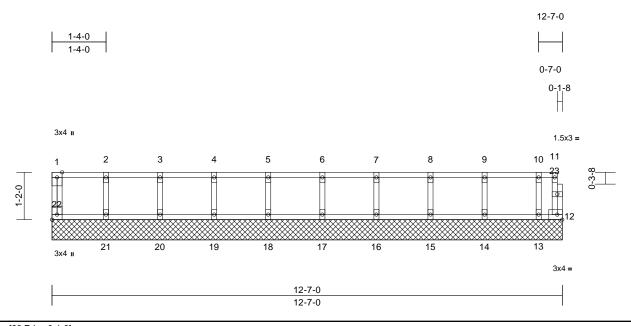
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 48 Duncans Creek	
250231-B	FKW3	Floor Supported Gable	1	1	Job Reference (optional)	175443994

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.4

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	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	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 55 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 (size) 12=12-7-0, 13=12-7-0, 14=12-7-0,

15=12-7-0, 16=12-7-0, 17=12-7-0, 18=12-7-0, 19=12-7-0, 20=12-7-0,

21=12-7-0, 22=12-7-0

Max Grav 12=8 (LC 1), 13=81 (LC 1), 14=122

(LC 1), 15=116 (LC 1), 16=118 (LC 1), 17=117 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=118 (LC 1), 22=47 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-44/0, 11-12=-1/0, 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

21-22=0/5, 20-21=0/5, 19-20=0/5, 18-19=0/5, **BOT CHORD**

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

13-14=0/5, 12-13=0/5

2-21=-106/0, 3-20=-107/0, 4-19=-107/0, WEBS 5-18=-107/0, 6-17=-107/0, 7-16=-107/0,

8-15=-106/0, 9-14=-111/0, 10-13=-81/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- 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



August 7,2025

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)

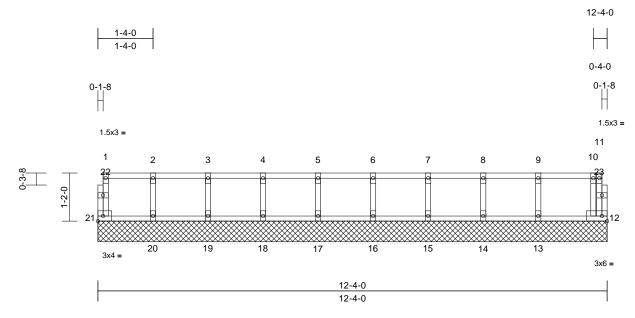


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-B	FKW4	Floor Supported Gable	1	1	Job Reference (optional)	175443995

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:27.9

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	0.07	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	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 54 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 (size)

12=12-4-0, 13=12-4-0, 14=12-4-0, 15=12-4-0, 16=12-4-0, 17=12-4-0, 18=12-4-0, 19=12-4-0, 20=12-4-0,

21=12-4-0

Max Grav 12=79 (LC 1), 13=160 (LC 1), 14=143 (LC 1), 15=148 (LC 1), 16=146 (LC 1), 17=147 (LC 1), 18=146 (LC 1), 19=149 (LC 1), 20=136 (LC 1), 21=61 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-21=-54/0, 11-12=0/19, 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=-3/0

BOT CHORD 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, 12-13=0/15 2-20=-127/0, 3-19=-135/0, 4-18=-133/0,

WEBS 5-17=-133/0, 6-16=-133/0, 7-15=-134/0,

8-14=-131/0, 9-13=-143/0, 10-12=-93/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- Plates checked for a plus or minus 1 degree rotation 2) about its center
- Gable requires continuous bottom chord bearing.
- 4) 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.

6) 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



August 7,2025



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

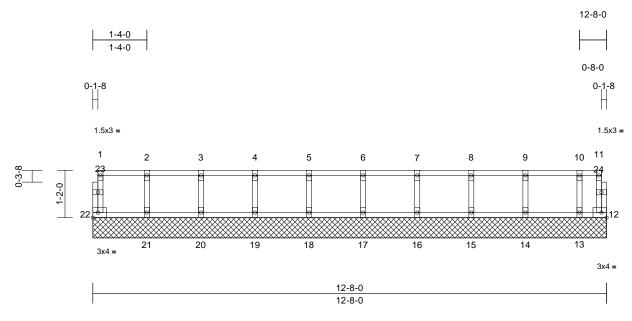
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 48 Duncans Creek	
250231-B	FKW5	Floor Supported Gable	1	1	Job Reference (optional)	175443996

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:41:21 ID:pXL0rRIBAua8un_7TYpI8UyqcBM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.4

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 55 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(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 (size)

12=12-8-0, 13=12-8-0, 14=12-8-0, 15=12-8-0, 16=12-8-0, 17=12-8-0, 18=12-8-0, 19=12-8-0, 20=12-8-0,

21=12-8-0, 22=12-8-0

Max Grav 12=16 (LC 1), 13=106 (LC 1), 14=153 (LC 1), 15=145 (LC 1), 16=147 (LC 1), 17=147 (LC 1), 18=147 (LC 1), 19=147 (LC 1),

20=147 (LC 1), 21=148 (LC 1), 22=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-49/0, 11-12=-8/0, 1-2=-6/0, 2-3=-6/0,

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

BOT CHORD 21-22=0/6, 20-21=0/6, 19-20=0/6, 18-19=0/6,

17-18=0/6, 16-17=0/6, 15-16=0/6, 14-15=0/6,

13-14=0/6, 12-13=0/6

WEBS 2-21=-133/0, 3-20=-134/0, 4-19=-133/0, 5-18=-133/0, 6-17=-133/0, 7-16=-134/0,

8-15=-132/0, 9-14=-139/0, 10-13=-102/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- Plates checked for a plus or minus 1 degree rotation about its center
- Gable requires continuous bottom chord bearing.
- 4) 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.

6) 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



August 7,2025





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

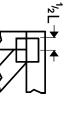
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



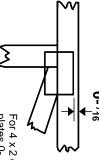
818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

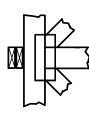
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

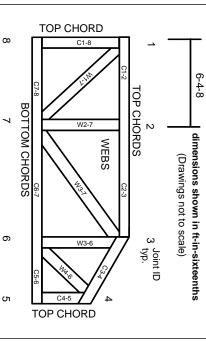
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

© 2023 MiTek® All Rights Reserved

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.

'n

- 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.
- 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 ANS/TPI 1 Quality Criteria.
 The design does not take into account any dynamic or other loads other than those expressly stated.

1. All exterior wall to wall dimensions are to face of wall unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

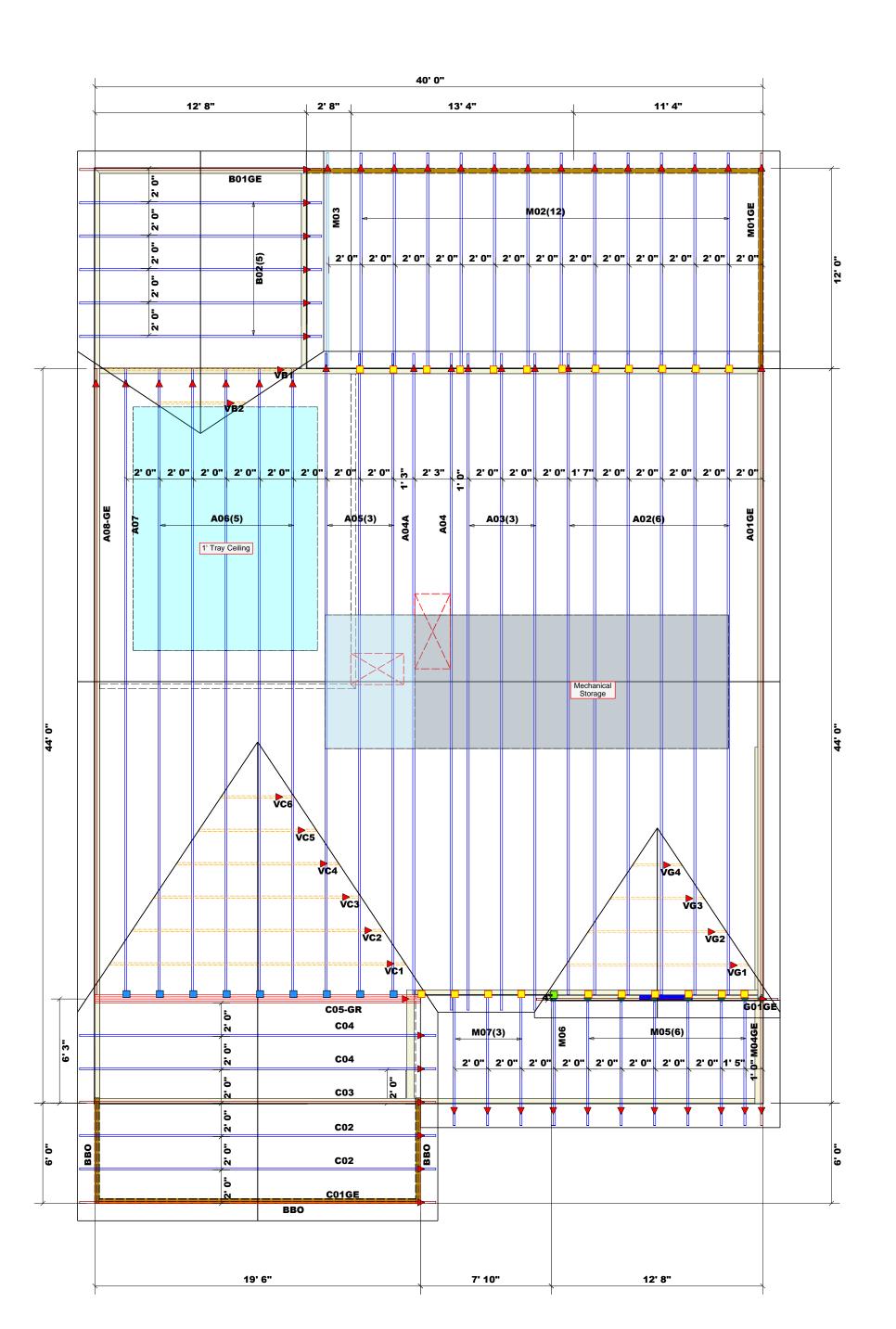
All Walls Shown Are Considered Load Bearing

= Indicates Left End of Truss 🛕 (Reference Engineered Truss Drawing) Do Not Erect Trusses Backwards

WALL SCHEDULE							
1st Floor Walls							
2nd Floor Walls							
Non-Bearing Walls							
Garage Walls Dropped							

		Products		
Net Qty	Plies	Product	Length	PlotID
2	2	1-3/4"x 14" LVL Kerto-S	7' 1 1/2"	2FB1
2	2	1-3/4"x 14" LVL Kerto-S	6' 5"	2FB3
2	2	1-3/4"x 14" LVL Kerto-S	3' 11"	2FB2
3	3	1-3/4"x 23-7/8" LVL Kerto-S	21' 3"	2FB5

Nail Info	ormation	Connector Information							
Truss	Header	Supported Member	Qty	Manuf	Product	Sym			
10d/3"	10d/3"	NA	22	USP	JUS24				
16d/3-1/2"	16d/3-1/2"	NA	9	USP	HUS26				
10d/3"	16d/3-1/2"	NA	1	USP	THD26-2				



= Indicates Left End of Truss (Reference Engineered Truss Drawing) Do NOT Erect Truss Backwards

COMTECH **ROOF & FLOOR TRUSSES & BEAMS**

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

paring reactions less than or equal to 3000# are seemed to comply with the prescriptive Code quirements. The contractor shall refer to the tached Tables (derived from the prescriptive Code quirements) to determine the minimum foundation ize and number of wood studs required to support seations greater than 3000# but not greater than 5000#. A registered design professional shall be etained to design the support system for any eaction that exceeds those specified in the attached fables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

13600 8 15300 9 Sales Area

Sales Area

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER END REACTION
(UP TO)
REQ'D STUDS FOR
(3) PLY HEADER END REACTION
(UP TO)
REQ'D STUDS FOR
(4) PLY HEADER 3400 1 1700 1 2550 1 3400 2 6800 2 5100 2 5100 3 7650 3 10200 3 6800 4 10200 4 13600 4 8500 5 12750 5 17000 5 10200 6 15300 6 11900 7

Hill Road Lillington / Harnett Baggett Johnnie l 8/6/25 778 DRAWN BY SALES REP. CITY / CO. DATE REV. ADDRESS MODEL

Georgian Site Name JOB NAME SEAL DATE **QUOTE**# BUILDER

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

PLAN



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 250231-A

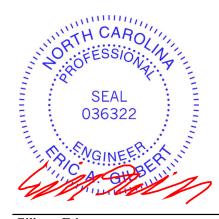
Lot 48 Duncans Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I75443999 thru I75444034

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

North Carolina COA: C-0844



August 7,2025

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

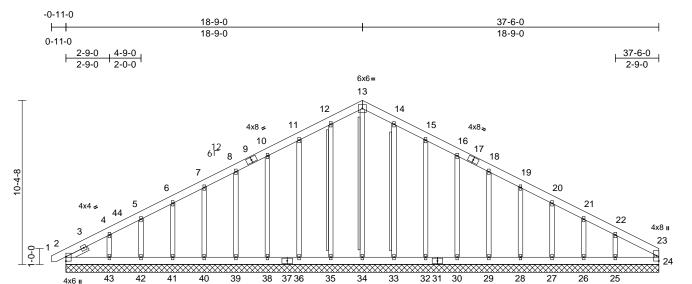
Job Truss Truss Type Qtv Ply Lot 48 Duncans Creek 175443999 250231-A A01GE COMMON SUPPORTED GAB Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:12 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4x8=

Page: 1



Scale = 1:72.9 Loading 2-0-0 CSI **DEFL** L/d **PLATES** GRIP (psf) Spacing in (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) n/a n/a 999 MT20 244/190 BC TCDI Vert(CT) 10.0 Lumber DOL 1 15 0.04 n/a n/a 999 **BCLL** 0.0* Rep Stress Incr WB Horz(CT) 0.00 24 YES 0.13 n/a n/a

37-6-0

4x8=

Matrix-S

IRC2021/TPI2014

FORCES

TOP CHORD

L	U.	M	В	ΕF	₹	
_	_	_	_		_	

BCDL

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS

OTHERS 2x4 SP No.2 *Except* 0-0,0-0,0-0:2x4 SPF

10.0

Code

No.2(flat)

SLIDER Left 2x4 SP No.2 -- 1-6-4

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.

WFBS T-Brace:

2x4 SPF No.2 - 13-34, 12-35, 14-33

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance

Brace must cover 90% of web length.

REACTIONS (size)

2=37-6-0, 24=37-6-0, 25=37-6-0, 26=37-6-0, 27=37-6-0, 28=37-6-0, 29=37-6-0, 30=37-6-0, 32=37-6-0, 33=37-6-0. 34=37-6-0. 35=37-6-0.

36=37-6-0, 38=37-6-0, 39=37-6-0,

40=37-6-0, 41=37-6-0, 42=37-6-0, 43=37-6-0

43=-160 (LC 12)

Max Horiz 2=210 (LC 12)

Max Uplift 2=-48 (LC 13), 25=-148 (LC 13), 26=-46 (LC 13), 27=-73 (LC 13), 28=-68 (LC 13), 29=-69 (LC 13), 30=-70 (LC 13), 32=-82 (LC 13), 33=-31 (LC 13), 35=-43 (LC 12), 36=-78 (LC 12), 38=-69 (LC 12), 39=-69 (LC 12), 40=-69 (LC 12), 41=-72 (LC 12), 42=-47 (LC 12),

Max Grav 2=183 (LC 21), 24=119 (LC 22), 25=210 (LC 26), 26=147 (LC 1), 27=162 (LC 26), 28=160 (LC 1), 29=160 (LC 1), 30=160 (LC 1),

32=162 (LC 26), 33=161 (LC 26), 34=200 (LC 22), 35=161 (LC 25), 36=162 (LC 25), 38=160 (LC 1), 39=160 (LC 1), 40=159 (LC 1),

41=163 (LC 25), 42=147 (LC 1), 43=209 (LC 25)

(lb) - Maximum Compression/Maximum Tension

1-2=-8/0, 2-4=-257/111, 4-5=-161/114, 5-6=-130/140, 6-7=-100/170, 7-8=-83/199,

8-10=-89/230, 10-11=-109/288, 11-12=-131/352, 12-13=-145/389, 13-14=-145/389, 14-15=-131/352, 15-16=-109/288, 16-18=-89/230, 18-19=-69/172, 19-20=-53/115,

20-21=-56/57, 21-22=-82/21, 22-23=-143/42, 23-24=-83/0

BOT CHORD

2-43=-33/151, 42-43=-33/151, 41-42=-33/151, 40-41=-33/151,

39-40=-33/151, 38-39=-33/151, 36-38=-33/151, 35-36=-33/151, 34-35=-33/151, 33-34=-33/151,

32-33=-33/151, 30-32=-33/151, 29-30=-33/151, 28-29=-33/151, 27-28=-33/151, 26-27=-33/151.

25-26=-33/151, 24-25=-33/151 13-34=-210/36, 12-35=-121/67 11-36=-122/121, 10-38=-120/106,

8-39=-120/105, 7-40=-120/105, 6-41=-121/107, 5-42=-113/93, 4-43=-149/237, 14-33=-121/60, 15-32=-122/121, 16-30=-120/106, 18-29=-120/105, 19-28=-120/105,

20-27=-121/107, 21-26=-111/112, 22-25=-156/242

NOTES

WEBS

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

Weight: 324 lb FT = 20%

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 18-9-0, Corner(3R) 18-9-0 to 23-1-13, Exterior(2N) 23-1-13 to 37-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



August 7,2025

Continued on page 2

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	Lot 48 Duncans Creek	
250231-A	A01GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	175443999

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:12 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 2

Provide mechanical connection (by others) of truss to Provide mechanical connection (by others) of itses to bearing plate capable of withstanding 48 lb uplift at joint 2, 43 lb uplift at joint 35, 78 lb uplift at joint 36, 69 lb uplift at joint 38, 69 lb uplift at joint 39, 69 lb uplift at joint 40, 72 lb uplift at joint 41, 47 lb uplift at joint 42, 160 lb uplift at joint 43, 31 lb uplift at joint 33, 82 lb uplift at joint 32, 70 lb uplift at joint 30, 69 lb uplift at joint 29, 68 lb uplift at joint 28, 73 lb uplift at joint 27, 46 lb uplift at joint 26 and 148 lb uplift at joint 25.

10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

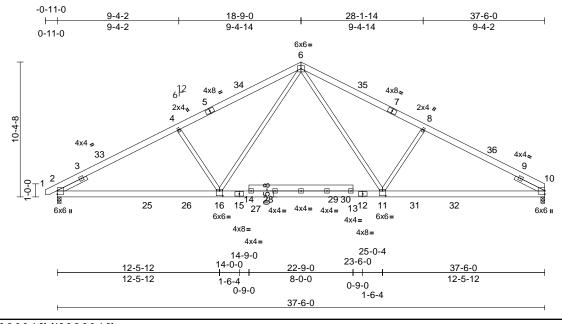




Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	A02	FINK	6	1	Job Reference (optional)	175444000

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:13 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:88.6

Plate Offsets (X, Y): [11:0-3-0,0-4-8], [16:0-3-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.18	11-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.37	11-16	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	11-16	>999	240	Weight: 265 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=128 (LC 9)

Max Grav 2=1927 (LC 2), 10=1888 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/20, 2-4=-3096/329, 4-6=-2895/350, 6-8=-2897/356, 8-10=-3097/335

BOT CHORD 2-16=-194/2740, 11-16=-19/1875,

10-11=-180/2695

WEBS 4-16=-485/315, 6-16=-11/1219,

6-11=-12/1221, 8-11=-487/316

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior (1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 18-9-0 from left end, supported at two points, 5-0-0 apart.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

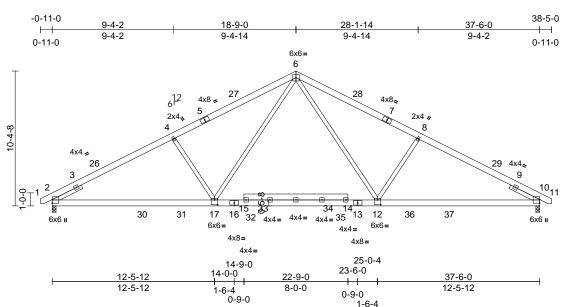




Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	A03	COMMON	3	1	Job Reference (optional)	175444001

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:13 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:88.6

Plate Offsets (X, Y): [12:0-3-0,0-4-8], [17:0-3-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.18	12-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.37	12-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	12-17	>999	240	Weight: 268 lb	FT = 20%

37-6-0

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=-127 (LC 10)

Max Grav 2=1926 (LC 2), 10=1926 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-4=-3095/329, 4-6=-2895/350,

TOP CHORD 6-8=-2895/350, 8-10=-3095/329, 10-11=0/20

BOT CHORD 2-17=-167/2744, 12-17=0/1879,

10-12=-165/2692 WEBS 4-17=-485/315 6-17=-12/1219

6-12=-12/1219, 8-12=-485/315

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior (1) 23-1-13 to 38-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 18-9-0 from left end, supported at two points, 5-0-0 apart.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

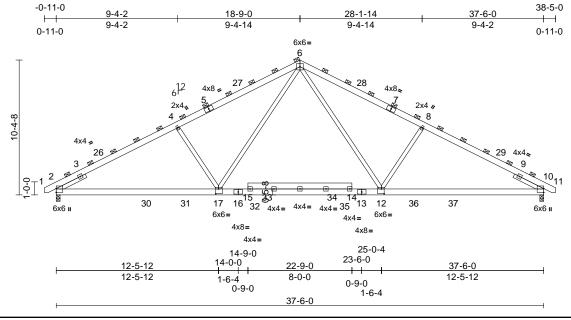




Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	A04	COMMON	1	1	Job Reference (optional)	175444002

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:13 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:88.6

Plate Offsets (X, Y): [12:0-2-8,0-4-8], [17:0-2-8,0-4-8]

Loading	(psf)	Spacing	2-1-8	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.20	12-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.39	12-17	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.06	12-17	>999	240	Weight: 268 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2

-- 2-6-0

BRACING TOP CHORD 2-0-0 oc purlins (3-10-3 max.)

(Switched from sheeted: Spacing > 2-0-0).

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

bracing

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=-135 (LC 10)

Max Uplift 2=-6 (LC 12), 10=-6 (LC 13)

Max Grav 2=2040 (LC 2), 10=2040 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/22, 2-4=-3282/366, 4-6=-3067/387.

6-8=-3067/387, 8-10=-3282/366, 10-11=0/22

BOT CHORD 2-17=-192/2912. 12-17=0/1980. 10-12=-189/2858

4-17=-530/342, 6-17=-26/1303,

6-12=-26/1303. 8-12=-530/342

WEBS NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior (1) 23-1-13 to 38-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 18-9-0 from left end, supported at two points, 5-0-0 apart.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 2 and 6 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 7,2025

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

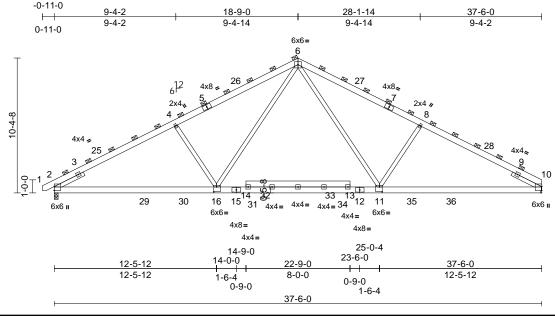
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 48 Duncans Creek	
250231-A	A04A	COMMON	1	1	Job Reference (optional)	175444003

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:14 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:88.6

Loading	(psf)	Spacing	2-1-8	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.20	11-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.39	11-16	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.06	11-16	>999	240	Weight: 265 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2

-- 2-6-0

BRACING

TOP CHORD 2-0-0 oc purlins (3-10-3 max.)

(Switched from sheeted: Spacing > 2-0-0).

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

bracing

REACTIONS (size) 2=0-3-8, 10= Mechanical

Max Horiz 2=136 (LC 9) Max Uplift 2=-6 (LC 12)

Max Grav 2=2041 (LC 2), 10=2000 (LC 2)

(lb) - Maximum Compression/Maximum **FORCES**

Tension

TOP CHORD 1-2=0/22, 2-4=-3283/366, 4-6=-3068/387,

6-8=-3069/393, 8-10=-3284/372

BOT CHORD 2-16=-221/2908. 11-16=-24/1975. 10-11=-206/2860

4-16=-530/342, 6-16=-26/1303,

WEBS 6-11=-26/1305. 8-11=-532/342

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior (1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 18-9-0 from left end, supported at two points, 5-0-0 apart.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 6 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or hottom chord

LOAD CASE(S) Standard



August 7,2025

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

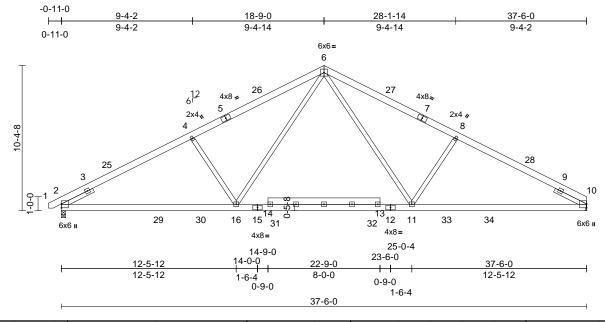
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 48 Duncans Creek	
250231-A	A05	COMMON	3	1	Job Reference (optional)	175444004

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:14 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.18	11-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.28	11-16	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	11-16	>999	240	Weight: 265 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 10= Mechanical

Max Horiz 2=128 (LC 9)

Max Uplift 2=-100 (LC 12), 10=-89 (LC 13) Max Grav 2=1827 (LC 2), 10=1788 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2884/541, 4-6=-2682/563, 6-8=-2684/569, 8-10=-2886/547

2-16=-378/2556, 11-16=-154/1740, BOT CHORD

10-11=-364/2511

WEBS 4-16=-502/298, 6-16=-120/1110, 6-11=-120/1113, 8-11=-504/298

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior (1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 4x4 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 2 and 89 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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	Lot 48 Duncans Creek	
250231-A	A06	Roof Special	5	1	Job Reference (optional)	175444005

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:14 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

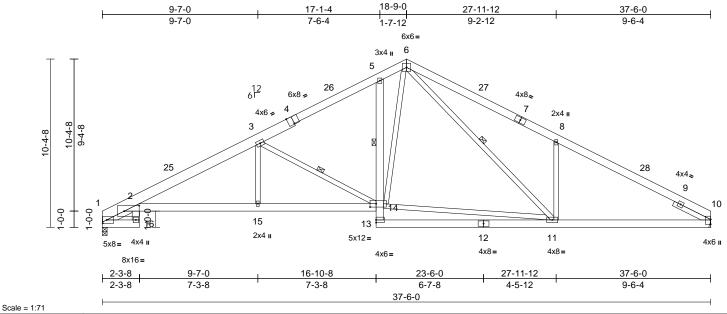


Plate Offsets (X, Y): [1:0-2-15,0-2-8], [2:0-11-0,0-4-2], [4:0-4-0,Edge], [14:0-4-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.19	2-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.39	2-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.22	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.16	2-15	>999	240	Weight: 299 lb	FT = 20%

LUMBER

2x6 SP No.1 *Except* 1-4:2x8 SP No.1 TOP CHORD

BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

Left 2x4 SP No.1 -- 1-7-11, Right 2x4 SP SLIDER

No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied. Except:

1 Row at midpt 5-14

WEBS

1 Row at midpt 3-14, 6-11

REACTIONS (size) 1=0-3-8, 10= Mechanical

Max Horiz 1=122 (LC 9)

Max Uplift 1=-85 (LC 12), 10=-89 (LC 13)

Max Grav 1=1500 (LC 1), 10=1494 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-535/143, 2-3=-3037/607

3-5=-2063/517, 5-6=-1784/556,

6-8=-2426/696, 8-10=-2428/514

BOT CHORD 1-16=-7/20, 2-16=-60/369, 2-15=-448/2713, 14-15=-448/2713, 13-14=0/214,

5-14=-36/218, 11-13=-10/459,

10-11=-335/2084

WEBS 3-15=0/409, 3-14=-1155/299, 11-14=-137/1089, 6-14=-174/813,

6-11=-264/850, 8-11=-523/338

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior (1) 4-6-9 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior (1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 1 and 89 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 7,2025

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

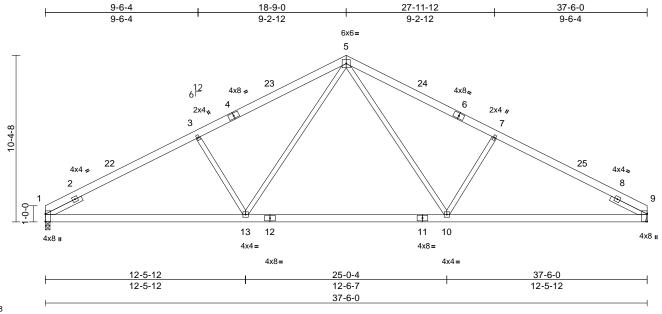
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 48 Duncans Creek	
250231-A	A07	Common	1	1	Job Reference (optional)	175444006

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:14 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.8

Plate Offsets (X, Y): [1:0-5-10,0-0-1], [9:0-5-10,0-0-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.11	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.27	10-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	10-13	>999	240	Weight: 244 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 1=0-3-8, 9= Mechanical

Max Horiz 1=122 (LC 9)

Max Uplift 1=-89 (LC 12), 9=-89 (LC 13) Max Grav 1=1500 (LC 1), 9=1500 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-3=-2423/541, 3-5=-2190/571, 5-7=-2190/571, 7-9=-2423/541 TOP CHORD **BOT CHORD**

1-13=-371/2084, 10-13=-151/1440,

9-10=-357/2084

WEBS 3-13=-500/300, 5-13=-126/802, 5-10=-126/802, 7-10=-500/300

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior (1) 4-4-13 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior (1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 1 and 89 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 7,2025

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

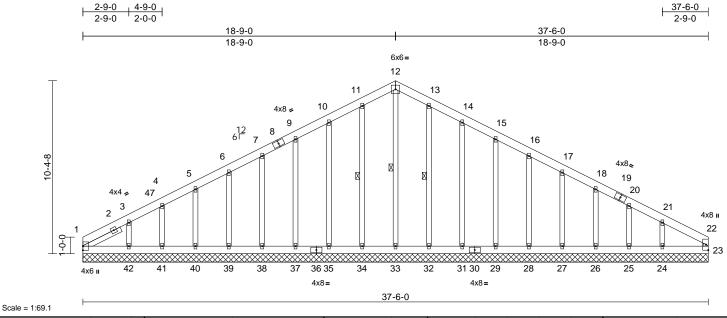
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 48 Duncans Creek	
250231-A	A08-GE	Common Supported Gable	1	1	Job Reference (optional)	175444007

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:14 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.01	23	n/a	n/a	1		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 323 lb	FT = 20%	
LUMBER			TOP CHORD	22-23=-87/0, 1-3	3=-238/104	1, 3-4=-164/10	07,	3) Tru:	ss desig	ned fo	r wind loads in the	e plane of the trus	ss

BRACING	
SLIDER	Left 2x4 SP No.2 2-6-0
OTHERS	2x4 SP No.2
WEBS	2x4 SP No.2
BOT CHORD	2x6 SP No.1
TOP CHORD	2x6 SP No.1

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

WFBS 1 Row at midpt 12-33, 11-34, 13-32

1=37-6-0, 23=37-6-0, 24=37-6-0, REACTIONS (size) 25=37-6-0, 26=37-6-0, 27=37-6-0,

28=37-6-0, 29=37-6-0, 31=37-6-0, 32=37-6-0, 33=37-6-0, 34=37-6-0, 35=37-6-0, 37=37-6-0, 38=37-6-0, 39=37-6-0, 40=37-6-0, 41=37-6-0,

42=37-6-0 Max Horiz 1=192 (LC 12)

Max Uplift 1=-37 (LC 13), 24=-151 (LC 13), 25=-45 (LC 13), 26=-73 (LC 13),

27=-68 (LC 13), 28=-69 (LC 13), 29=-70 (LC 13), 31=-81 (LC 13), 32=-27 (LC 13), 34=-39 (LC 12), 35=-78 (LC 12), 37=-70 (LC 12), 38=-69 (LC 12), 39=-68 (LC 12),

40=-74 (LC 12), 41=-45 (LC 12), 42=-163 (LC 12)

Max Grav 1=165 (LC 21), 23=124 (LC 22), 24=209 (LC 26), 25=147 (LC 1), 26=162 (LC 26), 27=160 (LC 1),

28=160 (LC 1), 29=160 (LC 1), 31=162 (LC 26), 32=160 (LC 26), 33=193 (LC 22), 34=160 (LC 25), 35=162 (LC 25), 37=160 (LC 1), 38=160 (LC 1), 39=159 (LC 1), 40=164 (LC 25), 41=143 (LC 1),

42=220 (LC 25) (lb) - Maximum Compression/Maximum TOP CHORD 22-23=-87/0, 1-3=-238/104, 3-4=-164/107, 4-5=-130/131, 5-6=-101/161, 6-7=-84/191,

7-9=-87/221, 9-10=-107/279, 10-11=-130/343, 11-12=-141/377 12-13=-141/377, 13-14=-130/343,

14-15=-107/279, 15-16=-87/221, 16-17=-67/163, 17-18=-55/106,

18-20=-61/48, 20-21=-88/20, 21-22=-152/43 1-42=-35/159, 41-42=-35/159,

40-41=-35/159, 39-40=-35/159, 38-39=-35/159, 37-38=-35/159, 35-37=-35/159, 34-35=-35/159, 33-34=-35/159, 32-33=-35/159,

31-32=-35/159, 29-31=-35/159, 28-29=-35/159. 27-28=-35/159. 26-27=-35/159, 25-26=-35/159,

24-25=-35/159, 23-24=-35/159 12-33=-189/29, 11-34=-120/63 10-35=-122/120, 9-37=-120/107,

7-38=-120/105, 6-39=-120/105, 5-40=-121/106, 4-41=-113/109, 3-42=-151/230, 13-32=-120/53, 14-31=-122/120, 15-29=-120/107, 16-28=-120/105, 17-27=-120/105, 18-26=-121/107, 20-25=-111/112,

21-24=-155/242

NOTES

WFRS

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 4-4-13, Exterior(2N) 4-4-13 to 18-9-0, Corner(3R) 18-9-0 to 23-1-13, Exterior(2N) 23-1-13 to 37-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 39 lb uplift at joint 34, 78 lb uplift at joint 35, 70 lb uplift at joint 37, 69 lb uplift at joint 38, 68 lb uplift at joint 39, 74 lb uplift at joint 40, 45 lb uplift at joint 41, 163 lb uplift at joint 42, 27 lb uplift at joint 32, 81 lb uplift at joint 31, 70 lb uplift at joint 29, 69 lb uplift at joint 28, 68 lb uplift at joint 27, 73 lb uplift at joint 26, 45 lb uplift at joint 25, 151 lb uplift at joint 24 and 37 lb uplift at joint 1.



Continued on page 2

Tension

FORCES

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	Lot 48 Duncans Creek	
250231-A	A08-GE	Common Supported Gable	1	1	Job Reference (optional)	175444007

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:14 ID: 6XJu5 EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

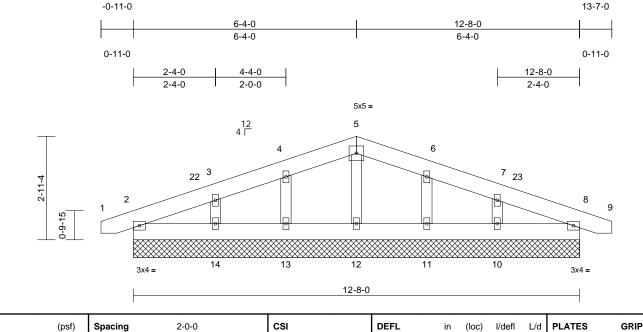




Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	B01GE	Common Supported Gable	1	1	Job Reference (optional)	175444008

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:14 ID:tX41NO4E9igq__Uon4EKvRyqd39-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



BCDL LUMBER

Scale = 1:32.7 Loading

TCLL (roof)

TCDI

BCLL

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 **OTHERS**

BRACING TOP CHORD

Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

20.0

10.0

10.0

0.0*

REACTIONS (size) 2=12-8-0, 8=12-8-0, 10=12-8-0, 11=12-8-0, 12=12-8-0, 13=12-8-0,

14=12-8-0 Max Horiz 2=-28 (LC 13)

Max Uplift 2=-27 (LC 8), 8=-32 (LC 9), 10=-34

(LC 13), 11=-23 (LC 9), 13=-22 (LC

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

YES

IRC2021/TPI2014

8), 14=-36 (LC 12)

2=136 (LC 1), 8=136 (LC 1), Max Grav

10=186 (LC 26), 11=158 (LC 26), 12=143 (LC 1), 13=158 (LC 25),

14=186 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/13, 2-3=-43/31, 3-4=-42/91, TOP CHORD

4-5=-55/145, 5-6=-55/142, 6-7=-42/86,

7-8=-39/26, 8-9=0/13

BOT CHORD 2-14=-20/43, 13-14=0/43, 12-13=0/43,

11-12=0/43, 10-11=0/43, 8-10=-1/43 **WEBS** 5-12=-100/64, 4-13=-123/179,

3-14=-131/190, 6-11=-123/179,

7-10=-131/190

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-8-5 to 3-8-8, Exterior(2N) 3-8-8 to 6-4-0, Corner(3R) 6-4-0 to 10-8-13, Exterior(2N) 10-8-13 to 13-4-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

0.02

0.01

0.03

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

n/a 999

n/a

n/a n/a

8

999

MT20

Weight: 75 lb

244/190

FT = 20%

- All plates are 2x4 (||) MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.

TC

BC

WB

Matrix-AS

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 32 lb uplift at joint 8, 22 lb uplift at joint 13, 36 lb uplift at joint 14, 23 lb uplift at joint 11, 34 lb uplift at joint 10, 27 lb uplift at joint 2 and 32 lb uplift at joint 8.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

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.

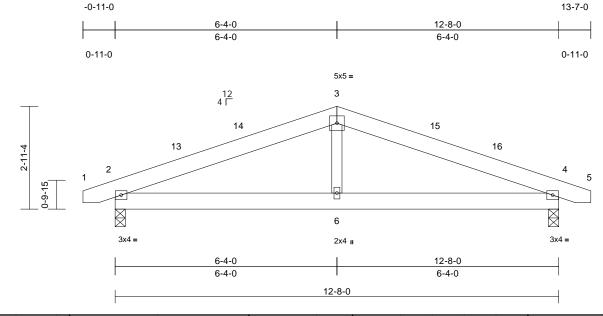
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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 Lot 48 Duncans Creek		
250231-A	B02	Common	5	1	Job Reference (optional)	175444009

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries. Inc. Wed Aug 06 10:42:14

Page: 1



Scale = 1:32.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	6-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	6-9	>999	240	Weight: 69 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 4=0-3-8

Max Horiz 2=-28 (LC 13)

Max Uplift 2=-65 (LC 8), 4=-65 (LC 9)

Max Grav 2=548 (LC 1), 4=548 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/13, 2-3=-811/431, 3-4=-811/431,

4-5=0/13

BOT CHORD 2-6=-315/714, 4-6=-315/714

WFBS 3-6=0/246

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-5 to 3-8-8, Interior (1) 3-8-8 to 6-4-0, Exterior(2R) 6-4-0 to 10-8-13, Interior (1) 10-8-13 to 13-4-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 2 and 65 lb uplift at joint 4.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 7,2025



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	C01GE	GABLE	1	1	Job Reference (optional)	175444010

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:14 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

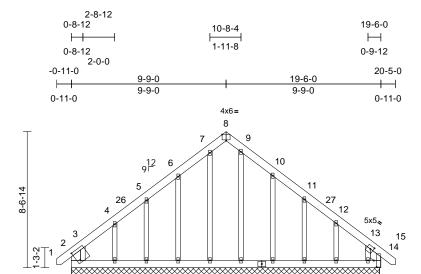


Plate Offsets (X, Y): [2:0-2-6,0-8-7], [8:0-3-0,Edge], [13:0-2-5,0-2-4], [14:0-5-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 171 lb	FT = 20%

22

19-6-0

2019

4x6=

18

17

16

3x10 II

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 OTHERS 2x4 SP No.2

Left 2x6 SP No.1 -- 0-10-6, Right 2x6 SP SLIDER No.1 -- 0-11-10

BRACING TOP CHORD

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

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

bracing.

REACTIONS (size)

17=19-5-0, 18=19-5-0, 19=19-5-0, 21=19-5-0, 22=19-5-0, 23=19-5-0, 24=19-5-0, 25=19-5-0

Max Horiz 2=241 (LC 11)

Max Uplift 2=-16 (LC 8), 14=-95 (LC 11),

16=-242 (LC 13), 17=-107 (LC 13), 18=-99 (LC 13), 19=-115 (LC 13), 22=-8 (LC 9), 23=-115 (LC 12),

2=19-5-0, 14=19-5-0, 16=19-5-0,

24=-84 (LC 12), 25=-179 (LC 12) Max Grav 2=197 (LC 21), 14=278 (LC 13),

16=174 (LC 11), 17=184 (LC 20), 18=180 (LC 20), 19=187 (LC 20), 21=130 (LC 1), 22=155 (LC 19),

23=187 (LC 19), 24=163 (LC 19), 25=222 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/22, 2-3=-223/131, 3-4=-227/162, TOP CHORD

> 4-5=-148/109, 5-6=-130/102, 6-7=-114/172, 7-8=-104/161, 8-9=-102/156, 9-10=-115/176, 10-11=-85/72, 11-12=-102/53, 12-13=-166/88,

13-14=-335/149, 14-15=-9/0

BOT CHORD 2-25=-104/231, 24-25=-94/221, 23-24=-94/221, 22-23=-94/221, 21-22=-94/221, 19-21=-94/221,

18-19=-94/221, 17-18=-94/221, 16-17=-94/221, 14-16=-94/221

WEBS 7-22=-116/32, 6-23=-145/153,

5-24=-132/126, 4-25=-176/201, 9-21=-91/0, 10-19=-147/151, 11-18=-140/134,

12-17=-144/167, 13-16=-143/240

NOTES

25

10x10 🚜

24

23

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 9-9-0. Corner(3R) 9-9-0 to 14-1-13. Exterior(2N) 14-1-13 to 20-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2, 8 lb uplift at joint 22, 115 lb uplift at joint 23, 84 lb uplift at joint 24, 179 lb uplift at joint 25, 115 lb uplift at joint 19, 99 lb uplift at joint 18, 95 lb uplift at joint 14, 107 lb uplift at joint 17 and 242 lb uplift at joint 16.
- Non Standard bearing condition. Review required.



August 7,2025

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

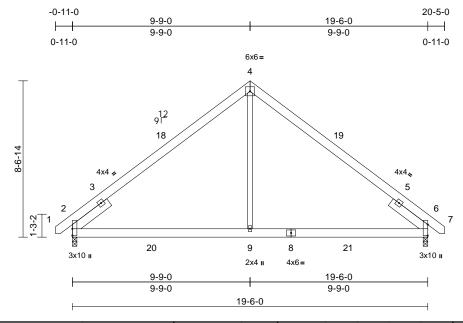
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 48 Duncans Creek	
250231-A	C02	COMMON	2	1	Job Reference (optional)	175444011

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:14 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scal	ما	_	1	·63	•

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.08	9-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.12	9-12	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.09	9-12	>999	240	Weight: 132 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

SLIDER Left 2x6 SP No.1 -- 2-6-0, Right 2x6 SP No.1

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 2=0-3-0, 6=0-3-0 Max Horiz 2=-190 (LC 10)

Max Uplift 2=-111 (LC 9), 6=-111 (LC 8) Max Grav 2=1030 (LC 2), 6=1030 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/29, 2-4=-931/487, 4-6=-931/487, 6-7=0/28

BOT CHORD 2-9=-196/747, 6-9=-196/747

WEBS 4-9=-253/747

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-8 to 3-7-5, Interior (1) 3-7-5 to 9-9-0, Exterior(2R) 9-9-0 to 14-1-13, Interior (1) 14-1-13 to 20-3-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2 and 111 lb uplift at joint 6.

This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 7,2025



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

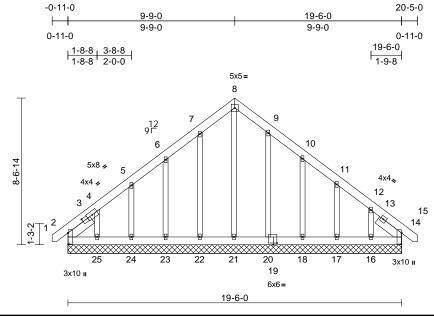
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 48 Duncans Creek	
250231-A	C03	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	175444012

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:15 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.3

Plate Offsets (X, Y): [2:0-7-12,0-0-4], [2:1-1-6,0-2-0], [14:0-7-12,0-0-4], [19:0-2-8,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 175 lb	FT = 20%

LUMBER TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 OTHERS

SLIDER Left 2x6 SP No.1 -- 1-8-15, Right 2x6 SP

No.1 -- 1-8-14

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing.

REACTIONS (size) 2=19-6-0, 14=19-6-0, 16=19-6-0, 17=19-6-0, 18=19-6-0, 20=19-6-0, 21=19-6-0, 22=19-6-0, 23=19-6-0,

24=19-6-0, 25=19-6-0 Max Horiz 2=240 (LC 9)

Max Uplift 2=-90 (LC 8), 14=-29 (LC 9),

16=-184 (LC 13), 17=-92 (LC 13), 18=-111 (LC 13), 20=-69 (LC 13), 22=-81 (LC 12), 23=-103 (LC 12),

24=-122 (LC 12), 25=-153 (LC 12) Max Grav 2=220 (LC 20), 14=187 (LC 22),

16=194 (LC 20), 17=179 (LC 20), 18=184 (LC 20), 20=174 (LC 20), 21=164 (LC 22), 22=186 (LC 19), 23=177 (LC 19), 24=200 (LC 19),

25=177 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-9/0, 2-3=-260/173, 3-4=-179/106, TOP CHORD

4-5=-169/144, 5-6=-143/114, 6-7=-125/155, 7-8=-139/226, 8-9=-138/226, 9-10=-102/153, 10-11=-90/56, 11-12=-107/63

12-14=-235/113, 14-15=-9/0

BOT CHORD 2-25=-102/177, 24-25=-87/197

23-24=-87/197, 22-23=-87/197, 21-22=-87/197, 20-21=-87/198, 18-20=-87/198, 17-18=-87/198, 16-17=-87/198, 14-16=-87/198 8-21=-159/48, 7-22=-146/105, 6-23=-137/141, 5-24=-160/169,

3-25=-142/199, 9-20=-134/96, 10-18=-144/145, 11-17=-141/143, 12-16=-148/223

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-8 to 3-8-8, Exterior(2N) 3-8-8 to 9-9-0, Corner(3R) 9-9-0 to 14-1-13, Exterior(2N) 14-1-13 to 20-3-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 5)
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 2, 81 lb uplift at joint 22, 103 lb uplift at joint 23, 122 lb uplift at joint 24, 153 lb uplift at joint 25, 69 lb uplift at joint 20, 111 lb uplift at joint 18, 92 lb uplift at joint 17, 184 lb uplift at joint 16 and 29 lb uplift at joint 14.

LOAD CASE(S) Standard



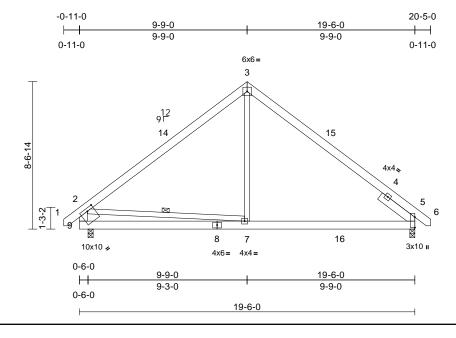
August 7,2025



Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	C04	COMMON	2	1	Job Reference (optional)	175444013

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:15 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67

Plate Offsets (X, Y): [9:0-4-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.10	7-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.14	7-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	7-12	>999	240	Weight: 141 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 *Except* 9-2:2x6 SP No.1 WEBS

Right 2x6 SP No.1 -- 2-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals

BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 2-7

REACTIONS (size) 5=0-3-8, 9=0-3-8 Max Horiz 9=-214 (LC 10)

Max Uplift 5=-46 (LC 13), 9=-48 (LC 12) Max Grav 5=998 (LC 20), 9=967 (LC 19) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/37, 2-3=-1014/217, 3-5=-864/214,

5-6=0/28, 2-9=-831/258 BOT CHORD 7-9=-287/775. 5-7=-93/723 WEBS 3-7=0/569, 2-7=-241/335

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-8 to 3-7-5, Interior (1) 3-7-5 to 9-9-0, Exterior(2R) 9-9-0 to 14-1-13, Interior (1) 14-1-13 to 20-3-8 zone; cantilever left exposed; end vertical left exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 9 and 46 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 7,2025

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/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)

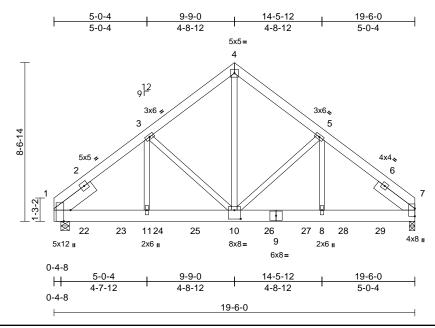


Job Truss Truss Type Qtv Ply Lot 48 Duncans Creek 175444014 250231-A C05-GR Common Girder 4 Job Reference (optional)

Comtech. Inc. Favetteville, NC - 28314

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:15 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.2

Plate Offsets (X, Y): [1:0-7-4,Edge], [10:0-4-0,0-5-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.05	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.09	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.03	10-11	>999	240	Weight: 690 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x8 SP No.1 2x4 SP No.2 WEBS

SLIDER Left 2x8 SP No.1 -- 2-6-0, Right 2x6 SP No.1

-- 2-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing

REACTIONS (size) 1=0-5-8, 7=0-3-8 Max Horiz 1=-175 (LC 6)

Max Uplift 7=-476 (LC 9)

Max Grav 1=9840 (LC 2), 7=7213 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-3=-7889/553, 3-4=-6157/498, TOP CHORD

4-5=-6169/499, 5-7=-8374/584

BOT CHORD 1-11=-438/6086, 10-11=-438/6086,

8-10=-398/6465, 7-8=-398/6465 WFRS 3-11=-137/2817, 3-10=-1954/221,

4-10=-489/6753. 5-10=-2094/262.

5-8=-166/2892

NOTES

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

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

Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Solid blocking is required on both sides of the truss at joint(s), 1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 476 lb uplift at joint
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1985 lb down at 0-4-12, 1768 lb down and 101 lb up at 1-7-12, 1768 lb down and 101 lb up at 3-7-12, 1768 lb down and 101 lb up at 5-7-12, 1474 lb down and 101 lb up at 7-7-12, 1474 lb down and 101 lb up at 9-7-12, 1474 lb down and 101 lb up at 11-7-12, 1474 lb down and 101 lb up at 13-7-12, and 1474 lb down and 101 lb up at 15-7-12, and 1480 lb down and 101 lb up at 17-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-7=-60, 12-18=-20

Concentrated Loads (lb)

Vert: 10=-1474 (B), 14=-1679 (B), 22=-1480 (B), 23=-1480 (B), 24=-1480 (B), 25=-1474 (B), 26=-1474 (B), 27=-1474 (B), 28=-1474 (B), 29=-1480 (B)





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

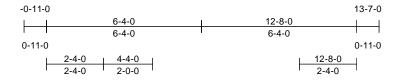
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 48 Duncans Creek	
250231-A	G01GE	GABLE	1	1	Job Reference (optional)	175444015

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:15 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



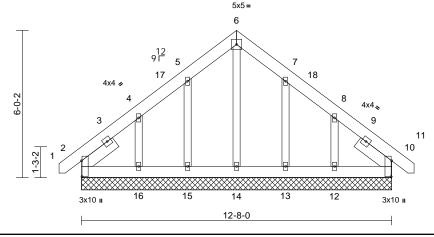


Plate Offsets (X, Y): [2:0-7-12,0-0-4], [10:0-7-12,0-0-4]

				1			-		-			-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 OTHERS 2x4 SP No.2

SLIDER Left 2x6 SP No.1 -- 1-8-9, Right 2x6 SP No.1

-- 1-8-9

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing.

REACTIONS (size)

2=12-8-0, 10=12-8-0, 12=12-8-0, 13=12-8-0, 14=12-8-0, 15=12-8-0,

16=12-8-0

Max Horiz 2=164 (LC 9)

Max Uplift 2=-46 (LC 8), 10=-11 (LC 9),

12=-166 (LC 13), 13=-75 (LC 13), 15=-76 (LC 12), 16=-174 (LC 12)

Max Grav 2=194 (LC 20), 10=176 (LC 1), 12=218 (LC 20), 13=172 (LC 20),

14=133 (LC 22), 15=174 (LC 19),

16=227 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-9/0, 2-4=-167/106, 4-5=-117/129, 5-6=-136/224, 6-7=-136/224, 7-8=-90/126,

8-10=-142/62, 10-11=-9/0

BOT CHORD 2-16=-55/134. 15-16=-55/134.

14-15=-55/134, 13-14=-55/134,

12-13=-55/134, 10-12=-55/134 WEBS 6-14=-145/42, 5-15=-139/141,

4-16=-171/275, 7-13=-137/140,

8-12=-171/273

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 6-4-0, Corner(3R) 6-4-0 to 10-8-13, Exterior(2N) 10-8-13 to 13-5-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2, 11 lb uplift at joint 10, 76 lb uplift at joint 15, 174 lb uplift at joint 16, 75 lb uplift at joint 13 and 166 lb uplift at ioint 12.

LOAD CASE(S) Standard



August 7,2025

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

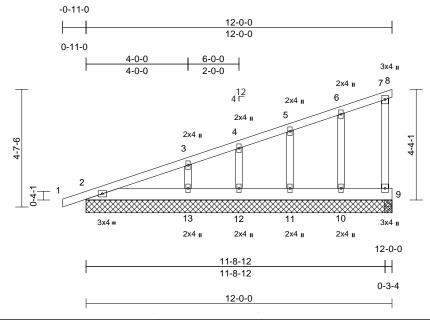
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 48 Duncans Creek	
250	231-A	M01GE	Monopitch	1	1	Job Reference (optional)	175444016

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:15 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	=	1.45	2
Ocale	_	1.70.	_

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	2-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.00	2-13	>999	240	Weight: 65 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2 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)

2=12-0-0, 8=12-0-0, 9=12-0-0, 10=12-0-0, 11=12-0-0, 12=12-0-0,

13=12-0-0 Max Horiz 2=207 (LC 8)

Max Uplift 2=-40 (LC 8), 8=-5 (LC 8), 9=-28 (LC 12), 10=-53 (LC 8), 11=-62 (LC

12), 12=-38 (LC 8), 13=-104 (LC

12)

2=194 (LC 1), 8=4 (LC 1), 9=69 Max Grav (LC 1), 10=157 (LC 1), 11=177 (LC

1), 12=94 (LC 1), 13=314 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-292/91, 3-4=-194/54,

4-5=-149/47, 5-6=-88/29, 6-7=-31/13,

7-8=-4/1, 7-9=-55/70

BOT CHORD 2-13=-2/1, 12-13=-2/1, 11-12=-2/1,

10-11=-2/1, 9-10=-2/1

6-10=-118/157, 5-11=-129/171, 4-12=-84/116, WEBS

3-13=-209/269

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 12-0-0 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 8, 28 lb uplift at joint 9, 40 lb uplift at joint 2, 53 lb uplift at joint 10, 62 lb uplift at joint 11, 38 lb uplift at joint 12 and 104 lb uplift at joint 13.

LOAD CASE(S) Standard



August 7,2025

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

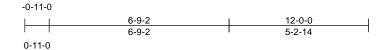
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

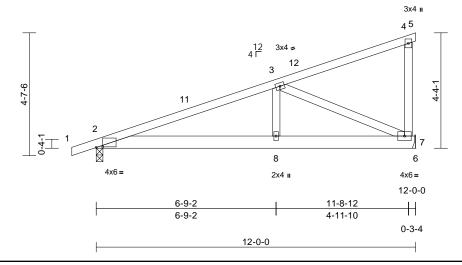


Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	M02	Monopitch	12	1	Job Reference (optional)	175444017

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:15 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1





Scale = 1:43.3

Plate Offsets (X, Y): [2:0-2-15,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.03	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	8-10	>999	240	Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 2=0-3-0, 7= Mechanical

Max Horiz 2=145 (LC 8)

Max Uplift 2=-197 (LC 8), 7=-200 (LC 8)

Max Grav 2=529 (LC 1), 7=472 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-796/499, 3-4=-75/20,

4-5=-2/0, 4-7=-124/125

BOT CHORD 2-8=-617/712 7-8=-617/712 6-7=0/0 **WEBS**

3-8=-181/283, 3-7=-759/655

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior (1) 3-5-13 to 12-0-0 zone; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2 and 200 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 7,2025

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

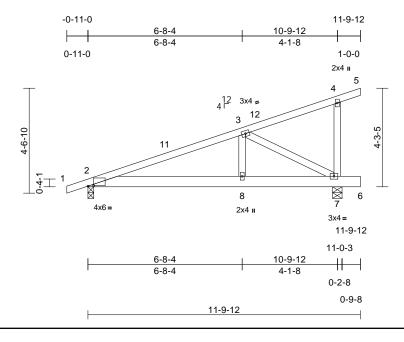
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 48 Duncans Creek	
250231-A	M03	Monopitch	1	1	Job Reference (optional)	175444018

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:15 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:49.9

Plate Offsets (X, Y): [2:0-2-15,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.02	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	8-10	>999	240	Weight: 62 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 2=0-3-0, 7=0-4-15

Max Horiz 2=141 (LC 8) Max Uplift 2=-182 (LC 8), 7=-187 (LC 8)

Max Grav 2=489 (LC 1), 7=508 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-674/410, 3-4=-65/30,

4-5=-19/0

BOT CHORD 2-8=-531/596, 7-8=-531/596, 6-7=0/0 **WEBS** 4-7=-154/145, 3-8=-189/267, 3-7=-674/601

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior (1) 3-5-13 to 11-9-12 zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2 and 187 lb uplift at joint 7.

This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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 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)

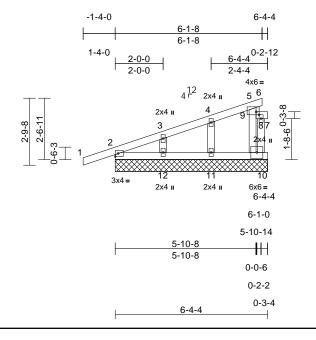


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	M04GE	GABLE	1	1	Job Reference (optional)	175444019

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:15 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 30 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

Except:

6-0-0 oc bracing: 5-9

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

bracing.

REACTIONS (size)

2=6-4-4, 7=6-4-4, 10=6-4-4, 11=6-4-4, 12=6-4-4

Max Horiz 2=119 (LC 8)

Max Uplift 2=-81 (LC 8), 7=-86 (LC 1),

10=-217 (LC 12), 11=-61 (LC 8),

12=-53 (LC 12)

Max Grav 2=193 (LC 1), 7=26 (LC 8), 10=767 (LC 1), 11=174 (LC 1), 12=132 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/14, 2-3=-168/35, 3-4=-87/8, 4-5=-58/8,

5-6=-8/0, 9-10=-391/491, 5-9=-53/115 **BOT CHORD** 2-12=-46/35, 11-12=-46/35, 10-11=-46/35,

8-9=-11/11, 7-8=0/0

WEBS 3-12=-130/212, 4-11=-130/247,

8-10=-163/169

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-0 to 3-0-13, Exterior(2N) 3-0-13 to 6-1-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2, 86 lb uplift at joint 7, 53 lb uplift at joint 12, 61 lb uplift at joint 11 and 217 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 200 lb down and 225 lb up at 5-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) 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

Concentrated Loads (lb)

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1 15 Uniform Loads (lb/ft) Vert: 1-5=-60, 5-6=-60, 2-10=-20, 7-9=-20

Vert: 9=-400, 10=-200 (F)



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

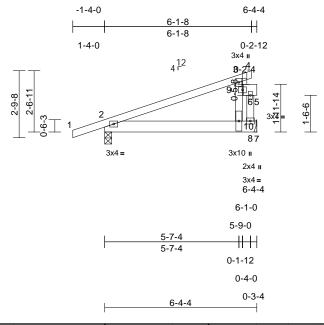
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 48 Duncans Creek	
250231-A	M05	MONOPITCH	6	1	Job Reference (optional)	175444020

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:15 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:48.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.03	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.07	10-13	>981	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.06	10-13	>999	240	Weight: 32 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

Except:

6-0-0 oc bracing: 3-9

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

bracing

REACTIONS (size) 2=0-3-8, 8= Mechanical

Max Horiz 2=87 (LC 8)

Max Uplift 2=-72 (LC 8), 8=-115 (LC 12) Max Grav 2=374 (LC 1), 8=1129 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/25, 2-3=-172/41, 3-4=-10/0,

9-10=-696/592, 3-9=-166/215

2-10=0/101, 8-10=0/0, 7-8=0/0, 6-9=0/0, BOT CHORD

5-6=0/0

WFBS 6-8=-50/12

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior (1) 3-0-13 to 6-1-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 115 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 360 lb down and 259 lb up at 6-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 7-11=-20, 6-9=-130, 5-6=-20

Concentrated Loads (lb)

Vert: 9=-500, 8=-360 (F)



August 7,2025

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

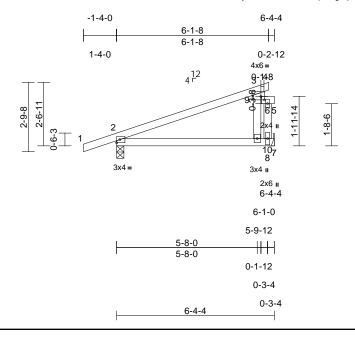
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Lot 48 Duncans Creek	
250231-A	M06	MONOPITCH	1	2	Job Reference (optional)	175444021

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.4

Plate Offsets (X, Y): [3:0-1-12,0-1-10]

-					-							
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.04	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.09	10-13	>844	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.07	10-13	>999	240	Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

Except:

6-0-0 oc bracing: 3-9

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

bracing

REACTIONS (size) 2=0-3-8, 8= Mechanical

Max Horiz 2=87 (LC 8)

Max Uplift 2=-69 (LC 8), 8=-92 (LC 12)

Max Grav 2=353 (LC 1), 8=896 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-258/66, 3-4=-9/0,

9-10=-490/451, 3-9=-188/236

BOT CHORD 2-10=-189/92, 8-10=0/0, 7-8=0/0, 6-9=0/0,

5-6=0/0

unless otherwise indicated.

WEBS 6-8=-23/0

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0
 - Bottom chords connected as follows: 2x4 1 row at
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B),
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior (1) 3-0-13 to 6-1-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 2 and 92 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 360 lb down and 259 lb up at 6-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 7-11=-20, 5-9=-20

Concentrated Loads (lb)

Vert: 9=-300, 8=-360 (F)



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

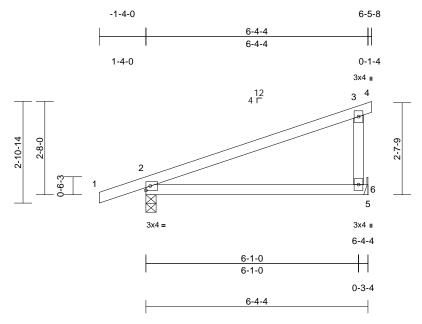
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 48 Duncans Creek	
250231-A	M07	MONOPITCH	3	1	Job Reference (optional)	175444022

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries. Inc. Wed Aug 06 10:42:16 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:33

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.05	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.11	6-9	>659	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	6-9	>999	240	Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 2=0-3-8, 6= Mechanical

Max Horiz 2=91 (LC 8)

Max Uplift 2=-65 (LC 8), 6=-41 (LC 12) Max Grav 2=331 (LC 1), 6=263 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-340/133, 3-4=-7/0,

3-6=-187/236 BOT CHORD

2-6=-220/125, 5-6=0/0

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior (1) 3-0-13 to 6-5-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 6 and 65 lb uplift at joint 2.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 7,2025

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

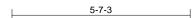
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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

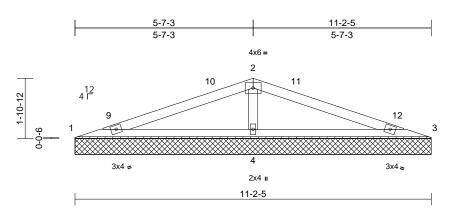


Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	VB1	Valley	1	1	Job Reference (optional)	175444023

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries. Inc. Wed Aug 06 10:42:16 ID:bTaT2oehrb4mCc27QBPT1lyqcHN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:36.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 33 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=11-2-5, 3=11-2-5, 4=11-2-5

Max Horiz 1=21 (LC 16)

Max Uplift 1=-16 (LC 12), 3=-19 (LC 13), 4=-44 (LC 8)

Max Grav 1=119 (LC 25), 3=119 (LC 26),

4=728 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-236/416, 2-3=-218/416

BOT CHORD 1-4=-348/279, 3-4=-348/279

2-4=-541/416 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-2 to 4-5-15, Interior (1) 4-5-15 to 5-8-5, Exterior(2R) 5-8-5 to 10-1-1, Interior (1) 10-1-1 to 11-3-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 19 lb uplift at joint 3 and 44 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 7,2025

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)



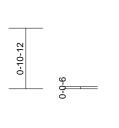
Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	VB2	Valley	1	1	Job Reference (optional)	5444024

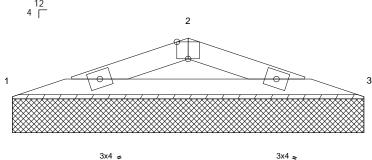
Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID:xROM5Vhqg7i3JNx4Dk_ekLyqcHI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1









5-2-5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 13 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=5-2-5, 3=5-2-5

Max Horiz 1=9 (LC 16)

Max Uplift 1=-16 (LC 8), 3=-16 (LC 9) Max Grav 1=208 (LC 1), 3=208 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-476/476, 2-3=-476/418

BOT CHORD 1-3=-453/444

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1 and 16 lb uplift at joint 3.

This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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.

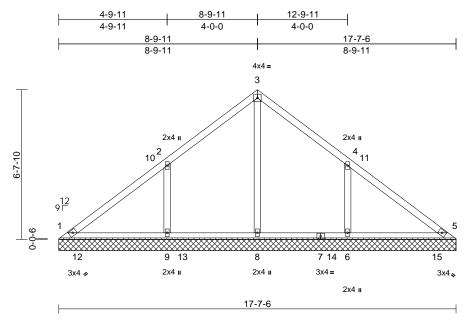
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent 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	Lot 48 Duncans Creek	
250231-A	VC1	Valley	1	1	Job Reference (optional)	

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=17-7-6, 5=17-7-6, 6=17-7-6,

8=17-7-6, 9=17-7-6 Max Horiz 1=-151 (LC 8)

Max Uplift 1=-4 (LC 8), 6=-140 (LC 13),

9=-140 (LC 12)

1=191 (LC 20), 5=169 (LC 19), Max Grav 6=549 (LC 20), 8=398 (LC 22),

9=549 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-147/120, 2-3=-142/149, 3-4=-131/141, 4-5=-110/83

1-9=-51/99, 8-9=-51/99, 6-8=-51/99, 5-6=-51/99

WEBS 3-8=-148/0, 2-9=-335/250, 4-6=-335/250

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-3, Interior (1) 4-10-3 to 8-10-3, Exterior(2R) 8-10-3 to 13-3-0, Interior (1) 13-3-0 to 17-3-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 140 lb uplift at joint 9 and 140 lb uplift at joint 6.

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.

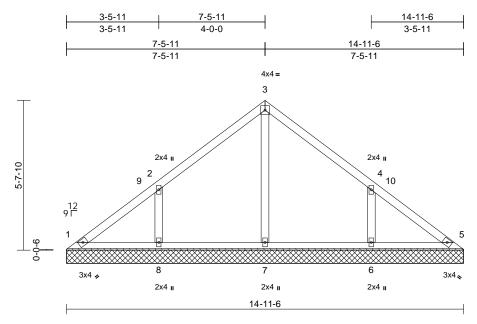
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 48 Duncans Creek	
250231-A	VC2	Valley	1	1	I75444026 Job Reference (optional)	

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le	=	1	:43	
Sca	ıe	=	1	:43	

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 62 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 **OTHERS** 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=14-11-6, 5=14-11-6, 6=14-11-6,

7=14-11-6, 8=14-11-6 Max Horiz 1=-127 (LC 8)

Max Uplift 1=-14 (LC 8), 6=-118 (LC 13),

8=-118 (LC 12)

1=131 (LC 20), 5=115 (LC 1), Max Grav

6=363 (LC 20), 7=244 (LC 1),

8=363 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-127/99, 2-3=-138/137, 3-4=-125/130,

4-5=-97/58 **BOT CHORD** 1-8=-39/85, 7-8=-39/85, 6-7=-39/85,

5-6=-39/85 3-7=-164/0, 2-8=-281/245, 4-6=-281/245

WEBS NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior (1) 4-10-1 to 7-6-3. Exterior(2R) 7-6-3 to 11-11-0, Interior (1) 11-11-0 to 14-7-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 118 lb uplift at joint 8 and 118 lb uplift at joint 6.

LOAD CASE(S) Standard



August 7,2025

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

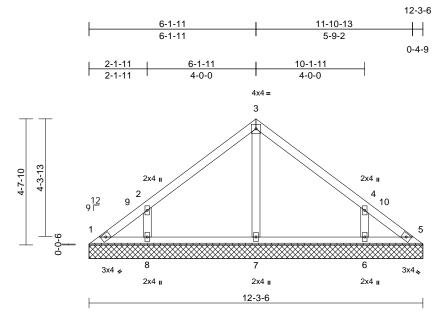
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 48 Duncans Creek	
250231-A	VC3	Valley	1	1	Job Reference (optional)	175444027

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=12-3-6, 5=12-3-6, 6=12-3-6, 7=12-3-6, 8=12-3-6

Max Horiz 1=103 (LC 9)

Max Uplift 1=-31 (LC 8), 5=-11 (LC 9), 6=-107

(LC 13), 8=-107 (LC 12)

1=74 (LC 20), 5=59 (LC 19), 6=319 (LC 20), 7=253 (LC 1), 8=319 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-106/88, 2-3=-135/122, 3-4=-125/117,

4-5=-84/55 **BOT CHORD** 1-8=-28/68, 7-8=-28/68, 6-7=-28/68,

5-6=-28/68

WEBS 3-7=-167/27, 2-8=-256/262, 4-6=-256/262

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior (1) 4-10-1 to 6-2-3, Exterior(2R) 6-2-3 to 10-7-0, Interior (1) 10-7-0 to 11-11-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1, 11 lb uplift at joint 5, 107 lb uplift at joint 8 and 107 lb uplift at joint 6.

LOAD CASE(S) Standard



August 7,2025

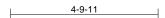


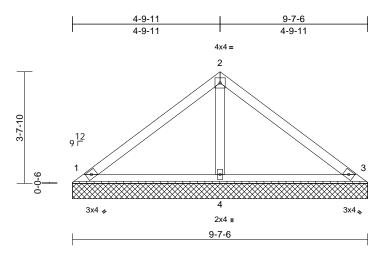


Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	VC4	Valley	1	1	Job Reference (optional)	175444028

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1





Scale = 1:37.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 35 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=9-7-6, 3=9-7-6, 4=9-7-6

Max Horiz 1=79 (LC 9)

Max Uplift 1=-21 (LC 12), 3=-29 (LC 13)

Max Grav 1=182 (LC 1), 3=182 (LC 1), 4=342

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-142/86, 2-3=-135/90 BOT CHORD 1-4=-15/62, 3-4=-15/62

WFBS 2-4=-211/128

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 29 lb uplift at joint 3.

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.

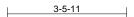
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

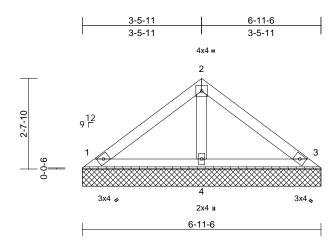


Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	VC5	Valley	1	1	Job Reference (optional)	175444029

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1





Scale = 1:33.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=6-11-6, 3=6-11-6, 4=6-11-6

Max Horiz 1=-55 (LC 10)

Max Uplift 1=-21 (LC 12), 3=-27 (LC 13)

Max Grav 1=138 (LC 1), 3=138 (LC 1), 4=216

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-90/68, 2-3=-82/69 BOT CHORD 1-4=-11/40, 3-4=-11/40

WFBS 2-4=-139/98

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 27 lb uplift at joint 3.

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 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)

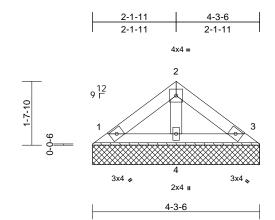


Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	VC6	Valley	1	1	Job Reference (optional)	175444030

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1

2-1-11



Scale = 1:29.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-6 oc purlins.

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

bracing.

REACTIONS (size) 1=4-3-6, 3=4-3-6, 4=4-3-6

Max Horiz 1=-31 (LC 10)

Max Uplift 1=-12 (LC 12), 3=-15 (LC 13) Max Grav 1=78 (LC 1), 3=78 (LC 1), 4=122

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-51/43, 2-3=-47/43

BOT CHORD 1-4=-6/23, 3-4=-6/23

WFBS 2-4=-79/64

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 15 lb uplift at joint 3.

LOAD CASE(S) Standard

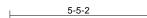
August 7,2025

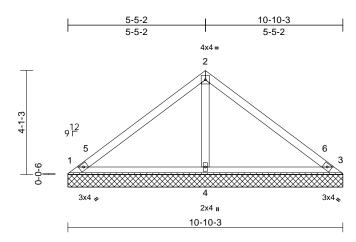


Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	VG1	Valley	1	1	Job Reference (optional)	175444031

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1





Scale = 1:45.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 40 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=10-10-3, 3=10-10-3, 4=10-10-3

Max Horiz 1=90 (LC 9)

Max Uplift 1=-24 (LC 12), 3=-33 (LC 13) 1=207 (LC 1), 3=207 (LC 1), 4=389 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-162/102, 2-3=-154/97 BOT CHORD 1-4=-17/71, 3-4=-17/71

WFBS 2-4=-240/135

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior (1) 4-10-1 to 5-5-10, Exterior(2R) 5-5-10 to 9-10-6, Interior (1) 9-10-6 to 10-5-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1 and 33 lb uplift at joint 3.

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.

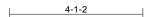
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

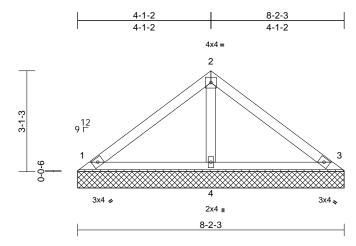


Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	VG2	Valley	1	1	Job Reference (optional)	175444032

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1





Scale = 1:35.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 30 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=8-2-3, 3=8-2-3, 4=8-2-3

Max Horiz 1=66 (LC 9)

Max Uplift 1=-26 (LC 12), 3=-32 (LC 13) Max Grav 1=166 (LC 1), 3=166 (LC 1), 4=259

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-108/75, 2-3=-99/77 BOT CHORD 1-4=-14/48, 3-4=-14/48

WFBS 2-4=-167/108

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 32 lb uplift at joint 3.

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 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)

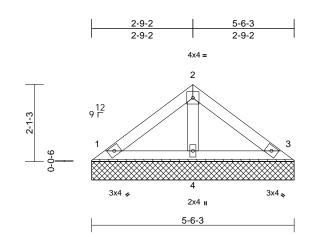


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	VG3	Valley	1	1	Job Reference (optional)	175444033

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:16 ID: 6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:31.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-3 oc purlins.

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

bracing.

REACTIONS (size) 1=5-6-3, 3=5-6-3, 4=5-6-3

Max Horiz 1=-42 (LC 8)

Max Uplift 1=-16 (LC 12), 3=-20 (LC 13) Max Grav 1=106 (LC 1), 3=106 (LC 1), 4=166

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-69/57, 2-3=-63/57 BOT CHORD 1-4=-9/31, 3-4=-9/31 WFBS 2-4=-107/83

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1 and 20 lb uplift at joint 3.

LOAD CASE(S) Standard



August 7,2025

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



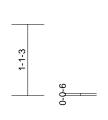
Job	Truss	Truss Type	Qty	Ply	Lot 48 Duncans Creek	
250231-A	VG4	Valley	1	1	Job Reference (optional)	175444034

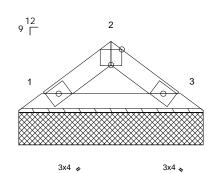
Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Aug 06 10:42:17 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x4 =





2-10-3

Scale = 1:17.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 8 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 BOT CHORD

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-11-3 oc purlins.

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

bracing.

REACTIONS (size) 1=2-10-3, 3=2-10-3

Max Horiz 1=-19 (LC 10)

Max Uplift 1=-4 (LC 12), 3=-4 (LC 13) Max Grav 1=82 (LC 1), 3=82 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-66/59, 2-3=-66/61

BOT CHORD 1-3=-17/42

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 4 lb uplift at joint 3.

LOAD CASE(S) Standard



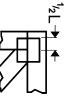
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 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)

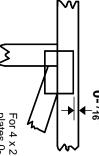


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

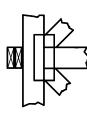
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

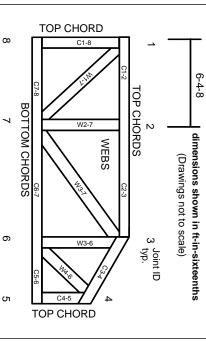
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

© 2023 MiTek® All Rights Reserved

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.

ω

- 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.

'n

- 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.

9

- 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.