

Plumbing Drop Notes

Plumbing drop locations shown are NOT exact.
 Contractor to verify ALL plumbing drop

locations prior to setting Floor Trusses.

3. Adjust spacing as needed not to exceed 24"oc.

Dimension Notes

All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 All interior wall dimensions are to face of stud unless noted otherwise
 All exterior wall to truss dimensions are to face of stud unless noted otherwise

Roof Area = 2204.71 sq.ft. Ridge Line = 62.74 ft. Hip Line = 0 ft. Horiz. OH = 148.61 ft. Raked OH = 152.28 ft. Decking = 76 sheets

All Walls Shown Are Considered Load Bearing

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



	Conne	Nail Information				
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS410	USP	44	NA	16d/3-1/2"	16d/3-1/2"

		Products		
PlotID	Length	Product	Plies	Net Qty
FB3	10' 0"	1-3/4"x 14" LVL Kerto-S	2	2
FB1	6' 0"	1-3/4"x 14" LVL Kerto-S	2	2
FB4	22' 0"	1-3/4"x 18" LVL Kerto-S	3	3
FB5	16' 0"	1-3/4"x 18" LVL Kerto-S	3	3
BBO	16' 0"	2x10 SPF No.2	2	2
BBO	12' 0"	2x10 SPF No.2	2	2

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

ROOF & FLOOR TRUSSES & BEAMS

Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444
g reactions less than or equal to 3000#

Reilly Road Industrial Park

searing reactions less than or equal to 3000# are leemed to comply with the prescriptive Code equirements. The contractor shall refer to the ttached Tables (derived from the prescriptive Codequirements) to determine the minimum foundaticize and number of wood studs required to supporeactions 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 attacherables. A registered design professional shall be etained to design the support system for all eactions that exceed 15000#.

gnature Sales Area

Sales Area

LOAD CHART FOR JACK STUDS

EQ'D STUDS FOR (2) PLY HEADER		STUDS RHEADER/O HEADER/O (OL do) 2550 5100	REQ'D STUDS FOR HE (3) PLY HEADER		3400 (UP TO)	E GOS SALITS A'OSG
1 2 3		2550 5100	1 2		3400	PEO'N STILING FOR
2		5100	2			
3					6800	L
		7/50				
		7650	3		10200	
4		10200	4		13600	
5		12750	5		17000	
6		15300	6			
7						
8						
9						
	6 7 8	6 7 8	6 15300 7 8	6 15300 6 7 8	6 15300 6 7 8	6 15300 6 7 8

CITY / CO.	CITY / CO. Lillington / Harnett
ADDRESS	644 Beacon Hill Road
MODEL	Floor
DATE REV.	9/15/25
DRAWN BY	DRAWN BY Johnnie Baggett
SALES REP.	SALES REP. House Account

 BUILDER
 New Home Inc.

 JOB NAME
 Lot 54 Duncans Creek

 PLAN
 Plan

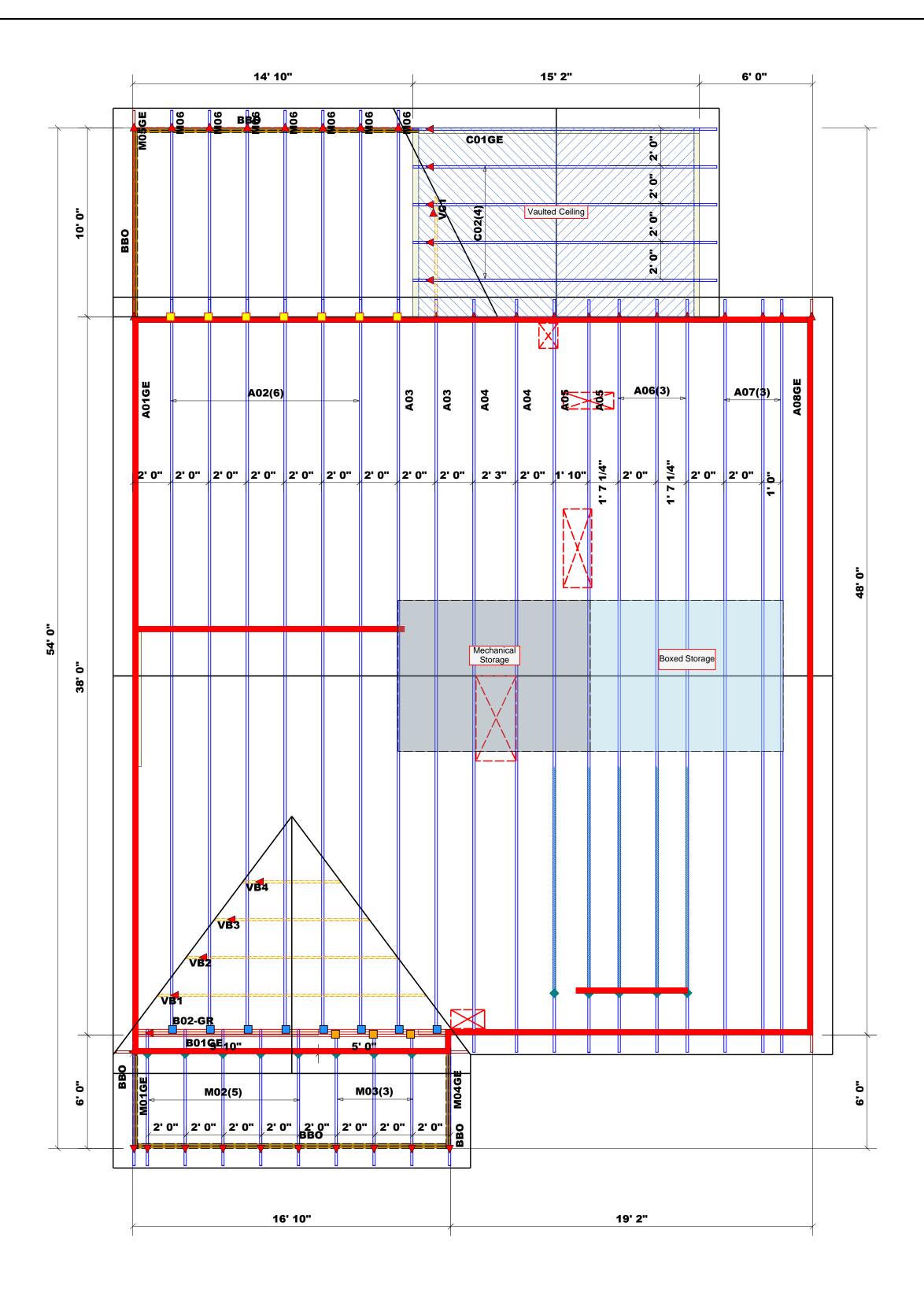
 SEAL DATE
 7/1/21

 QUOTE #
 Quote #

 JOB #
 251278 - B

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

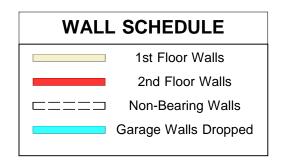


Dimension Notes 1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

Roof Area = 2204.71 sq.ft. Ridge Line = 62.74 ft. Hip Line = 0 ft. Horiz. OH = 148.61 ft. Raked OH = 152.28 ft. Decking = 76 sheets

All Walls Shown Are Considered Load Bearing

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



	Conne	ctor Info	rmati	on	Nail Information			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss		
	HUS26	USP	8	NA	16d/3-1/2"	16d/3-1/2"		
	JUS26	USP	10	NA	10d/3"	10d/3"		

соттесн **ROOF & FLOOR TRUSSES & BEAMS**

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

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

Sales Area Sales Area

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

NU/	MBER C	STUDS R HEADER/		A END OF	=
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR
1700	1	2550	1	3400	1
3400	2	5100	2	6800	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				

CITY / CO.	CITY / CO. Lillington / Harnett
ADDRESS	644 Beacon Hill Road
WODEL	Roof
DATE REV.	9/15/25
DRAWN BY	Johnnie Baggett
SALES REP	House Account

New Home Inc. Quote# Lot 54 7/1/21 JOB NAME SEAL DATE BUILDER QUOTE;

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 (Reference Engineered Truss Drawing)

= Indicates Left End of Truss

Do NOT Erect Truss Backwards



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 251278-A

Lot 54 Duncan's 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: I76364784 thru I76364806

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

North Carolina COA: C-0844



September 16,2025

Gilbert, Eric

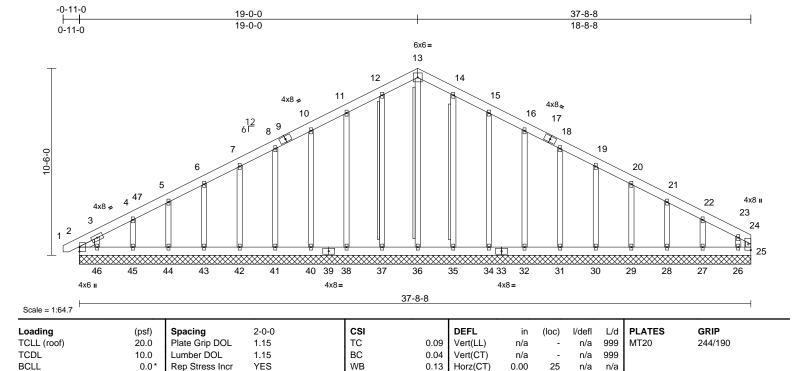
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 54 Duncan's Creek 176364784 251278-A A01GE COMMON SUPPORTED GAB Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:46 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



LUMBER

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

No.2(flat) SLIDER

Left 2x4 SP No.2 -- 0-11-10 **BRACING**

TOP CHORD BOT CHORD

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

2x4 SPF No.2 - 13-36, WFBS T-Brace:

12-37, 14-35

Code

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=37-8-8, 25=37-8-8, 26=37-8-8, 27=37-8-8, 28=37-8-8, 29=37-8-8, 30=37-8-8, 31=37-8-8, 32=37-8-8, 34=37-8-8. 35=37-8-8. 36=37-8-8. 37=37-8-8, 38=37-8-8, 40=37-8-8, 41=37-8-8, 42=37-8-8, 43=37-8-8, 44=37-8-8, 45=37-8-8, 46=37-8-8

Max Horiz 2=136 (LC 9)

Max Uplift 2=-53 (LC 8), 25=-37 (LC 11),

26=-150 (LC 13), 27=-36 (LC 13), 28=-33 (LC 13), 29=-33 (LC 13), 30=-34 (LC 13), 31=-33 (LC 13), 32=-34 (LC 13), 34=-42 (LC 13), 35=-7 (LC 13), 37=-14 (LC 12),

38=-40 (LC 12), 40=-34 (LC 12), 41=-33 (LC 12), 42=-34 (LC 12),

43=-34 (LC 12), 44=-33 (LC 12), 45=-38 (LC 12), 46=-104 (LC 12) Max Grav 2=148 (LC 21), 25=174 (LC 13),

Matrix-S

IRC2021/TPI2014

BOT CHORD

26=122 (LC 20), 27=166 (LC 26), 28=159 (LC 1), 29=160 (LC 1), 30=160 (LC 26), 31=160 (LC 1), 32=160 (LC 1), 34=162 (LC 26), 35=162 (LC 1), 36=169 (LC 22), 37=162 (LC 1), 38=162 (LC 25), 40=160 (LC 1), 41=160 (LC 1),

42=160 (LC 25), 43=160 (LC 25), 44=159 (LC 1), 45=164 (LC 25),

46=134 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-8/0, 2-3=-251/112, 3-4=-147/92, 4-5=-109/87, 5-6=-97/88, 6-7=-88/109,

7-8=-80/167, 8-10=-82/224, 10-11=-102/283, 11-12=-125/346, 12-13=-138/383, 13-14=-138/383, 14-15=-125/346, 15-16=-102/283, 16-18=-82/224,

18-19=-62/167, 19-20=-45/109, 20-21=-47/52, 21-22=-60/22, 22-23=-118/38,

23-24=-211/58, 24-25=-163/42 2-46=-39/154, 45-46=-39/154,

44-45=-39/154, 43-44=-39/154, 42-43=-39/154, 41-42=-39/154,

40-41=-39/154, 38-40=-39/154, 37-38=-39/154, 36-37=-39/154 35-36=-39/154, 34-35=-39/154,

32-34=-39/154, 31-32=-39/154, 30-31=-39/154, 29-30=-39/154,

28-29=-39/154, 27-28=-39/154, 26-27=-39/154, 25-26=-39/154

WEBS 13-36=-206/32, 12-37=-122/60,

11-38=-122/121, 10-40=-120/106, 8-41=-120/105, 7-42=-120/105, 6-43=-120/105, 5-44=-120/105, 4-45=-123/157, 3-46=-97/203,

Weight: 329 lb

FT = 20%

14-35=-122/60, 15-34=-122/121, 16-32=-120/106, 18-31=-120/105,

19-30=-120/105, 20-29=-120/106, 21-28=-119/130, 22-27=-125/178,

23-26=-87/201

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) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 19-0-0, Corner(3R) 19-0-0 to 23-4-13, Exterior(2N) 23-4-13 to 37-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60



September 16,2025

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 54 Duncan's Creek	
251278-A	A01GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	176364784

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:46 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 2

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 25, 53 lb uplift at joint 2, 14 lb uplift at joint 37, 40 lb uplift at joint 38, 34 lb uplift at joint 40, 33 lb uplift at joint 41, 34 lb uplift at joint 42, 34 lb uplift at joint 43, 33 lb uplift at joint 44, 38 lb uplift at joint 45, 104 lb uplift at joint 46, 7 lb uplift at joint 35, 42 lb uplift at joint 34, 34 lb uplift at joint 32, 33 lb uplift at joint 31, 34 lb uplift at joint 30, 33 lb uplift at joint 29, 33 lb uplift at joint 28, 36 lb uplift at joint 27 and 150 lb uplift at joint 26.
- 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 54 Duncan's Creek	
251278-A	A02	FINK	6	1	Job Reference (optional)	176364785

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:47 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1

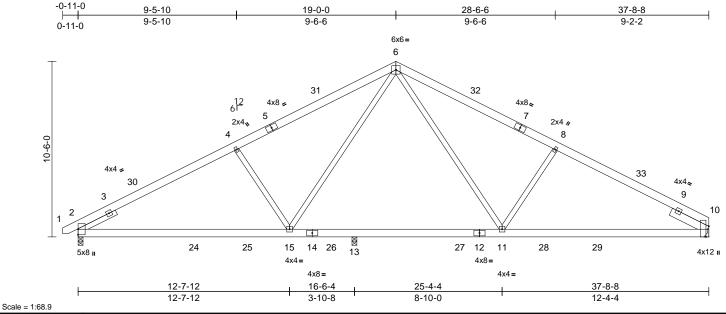


Plate Offsets (X, Y): [10:0-7-10,Edge]

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	0.30	Vert(LL)	-0.22	15-18	>901	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.38	15-18	>524	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	15-18	>999	240	Weight: 251 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 2x6 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, 13=0-3-8

Max Horiz 2=132 (LC 9)

Max Uplift 2=-115 (LC 12), 10=-102 (LC 13)

2=1580 (LC 2), 10=1604 (LC 2), Max Grav

13=481 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/20, 2-4=-2299/535, 4-6=-2127/557,

6-8=-2237/556, 8-10=-2437/533

BOT CHORD 2-15=-376/2090 13-15=-150/1431

11-13=-150/1431, 10-11=-352/2110

WEBS 4-15=-536/304, 6-15=-115/782,

6-11=-108/958, 8-11=-497/294

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 37-8-8 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, 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 115 lb uplift at joint 2 and 102 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



September 16,2025

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

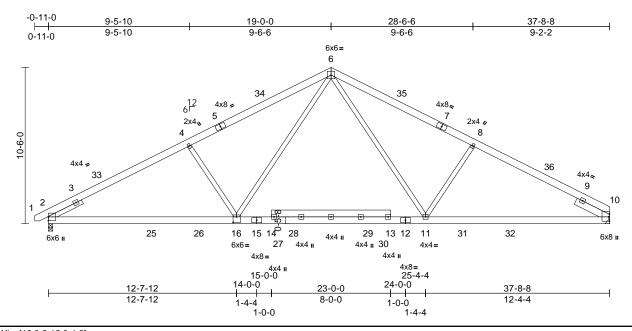
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-A	A03	FINK	2	1	Job Reference (optional)	176364786

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:47 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:77.4

Plate Offsets (X, Y): [16:0-2-12,0-4-8]

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	0.43	Vert(LL)	-0.19	11-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.39	11-16	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	11-16	>999	240	Weight: 269 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 2x6 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=132 (LC 9)

Max Uplift 2=-2 (LC 12)

Max Grav 2=1941 (LC 2), 10=1907 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-3118/333, 4-6=-2914/354, 6-8=-2863/355, 8-10=-3057/333

BOT CHORD 2-16=-201/2760, 11-16=-23/1876,

10-11=-180/2644

WEBS 4-16=-493/319, 6-16=-12/1247, 6-11=-6/1168,

8-11=-456/312

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 37-8-8 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, 19-0-0 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 2 lb uplift at joint 2.
- 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



September 16,2025

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

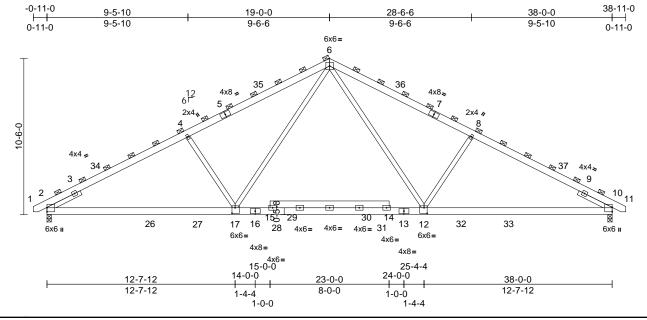
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 54 Duncan's Creek	
251278-A	A04	FINK	2	1	Job Reference (optional)	176364787

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:47 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? fwliain and the control of th

Page: 1



Scale = 1:77.5

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	0.67	Vert(LL)	-0.20	12-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.40	12-17	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.07	12-17	>999	240	Weight: 271 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 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 2-0-0 oc purlins (3-9-3 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=-137 (LC 10)

Max Uplift 2=-7 (LC 12), 10=-7 (LC 13)

Max Grav 2=2071 (LC 2), 10=2071 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/22, 2-4=-3337/372, 4-6=-3118/394, TOP CHORD

6-8=-3118/394, 8-10=-3337/372, 10-11=0/22

BOT CHORD 2-17=-196/2961. 12-17=0/2011. 10-12=-194/2906

4-17=-539/346, 6-17=-28/1327,

6-12=-28/1327, 8-12=-539/346

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 38-9-2 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, 19-0-0 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 7 lb uplift at joint 2 and 7 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

September 16,2025

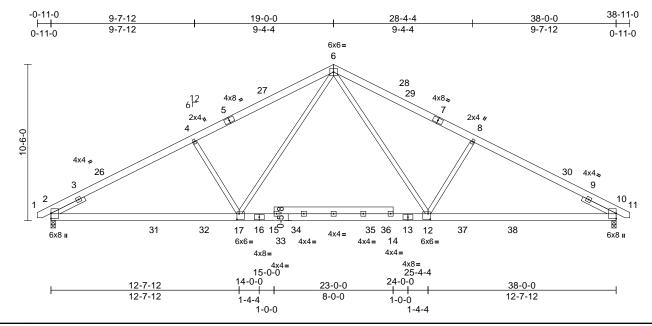




Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	A05	Common	2	1	Job Reference (optional)	176364788

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:47 ID:xsvSYoiYI1ZaxOJd9d7875ydOEo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:77.5

Plate Offsets (X, Y): [12:0-1-12,0-4-8], [17:0-1-12,0-4-8]

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	0.42	Vert(LL)	-0.19	12-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.39	12-17	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	12-17	>999	240	Weight: 271 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 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=0-3-8 Max Horiz 2=129 (LC 11)

Max Uplift 2=-10 (LC 12), 10=-38 (LC 13)

Max Grav 2=2031 (LC 2), 10=2268 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/20, 2-4=-3293/388, 4-6=-3097/418.

6-8=-3288/472, 8-10=-3589/470, 10-11=0/20 BOT CHORD 2-17=-215/2925, 12-17=-46/2060,

10-12=-306/3101

WEBS 4-17=-483/316, 6-17=-15/1241. 6-12=-108/1492, 8-12=-732/402

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 38-9-2 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, 19-0-0 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 10 lb uplift at joint 2 and 38 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 21 lb up at 35-9-8 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-60, 6-29=-60, 9-29=-90 (F=-30), 9-11=-60,

18-22=-20

Concentrated Loads (lb)

Vert: 9=-60 (F), 34=-100, 35=-100



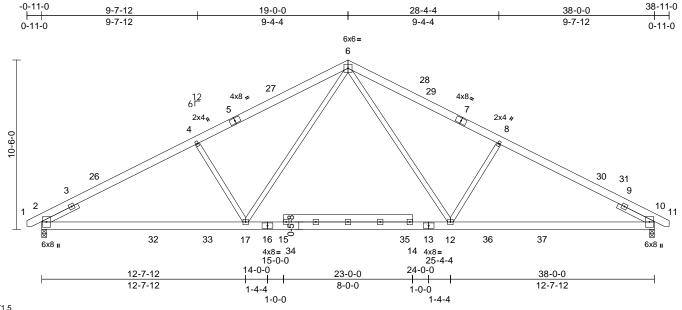
September 16,2025



Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	A06	Common	3	1	Job Reference (optional)	176364789

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:47 ID:TISnciWazc?3ThxVaBqsLDydODI-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.5 Plate Offsets (X, Y): [2:0-4-6,0-0-9], [10:0-4-6,0-0-9]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL (roof)	· · · ·	Plate Grip DOL	1.15	TC TC	0.45	Vert(LL)	-0.19	(/	>999		MT20	244/190
` '						` '						244/190
TCDL		Lumber DOL	1.15	BC	0.80	` ′	-0.31	12-24	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	12-17	>999	240	Weight: 271 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 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=0-3-8

Max Horiz 2=-129 (LC 10)

Max Uplift 2=-110 (LC 12), 10=-143 (LC 13)

Max Grav 2=1934 (LC 2), 10=2212 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/20, 2-4=-3087/603, 4-6=-2890/634

6-8=-3092/693, 8-10=-3438/701, 10-11=0/20 BOT CHORD 2-17=-401/2746, 12-17=-183/1931,

10-12=-499/2937

WEBS 4-17=-500/299, 6-17=-123/1131, 6-12=-223/1401, 8-12=-762/390

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 38-9-2 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2 and 143 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 42 lb up at 35-9-5 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-60, 6-29=-60, 29-31=-90 (F=-30),

11-31=-60, 18-22=-20 Concentrated Loads (lb)

Vert: 31=-120 (F)



September 16,2025



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

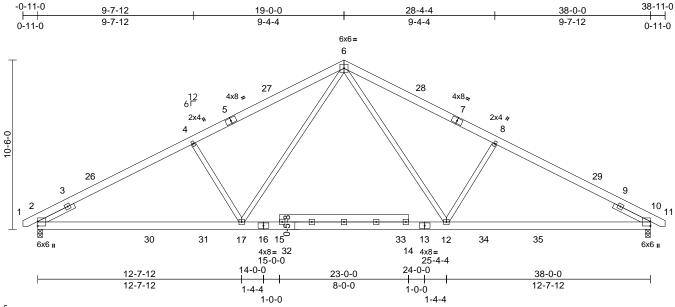
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-A	A07	Common	3	1	Job Reference (optional)	176364790

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 ID:n_1Y2RyScMZcr8bSUKBmF6ydNtE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.5

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	0.28	Vert(LL)	-0.19	12-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.29	12-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	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: 271 lb	FT = 20%

LUMBER

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

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

BRACING

FORCES

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=-129 (LC 10)

Max Uplift 2=-101 (LC 12), 10=-101 (LC 13)

Max Grav 2=1860 (LC 2), 10=1860 (LC 2) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2939/544, 4-6=-2741/575, 6-8=-2741/575, 8-10=-2939/544, 10-11=0/20

2-17=-350/2607, 12-17=-127/1778, BOT CHORD

10-12=-348/2555

WEBS 4-17=-510/303, 6-17=-129/1148, 6-12=-129/1148, 8-12=-510/303

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 38-9-2 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.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 2 and 101 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



September 16,2025



Job Truss Truss Type Qtv Ply Lot 54 Duncan's Creek 176364791 251278-A A08GE Common Supported Gable Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314 Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 Page: 1 ID:v0NJvVXxYoUx_MhUliXof0ydNsV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-11-0 38-11-0 19-0-0 38-0-0 19-0-0 19-0-0 0-11-0 0-11-0 6x6= 13 12 15 11 4x8 = 4x8 ≥ 10 16 12 6Г 9 17 18 19 M 6 20 X 21 4x4 54 53 22 23 25 $\times\!\!\times\!\!\times$ 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 4x6 ı 4x8= 4x8= 38-0-0 Scale = 1:64.7

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	вс	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 337 lb	FT = 20%

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

LUMBER

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.

WFBS 13-35, 12-36, 14-34 1 Row at midpt REACTIONS (size) 2=38-0-0, 24=38-0-0, 26=38-0-0, 27=38-0-0, 28=38-0-0, 29=38-0-0, 30=38-0-0, 31=38-0-0, 33=38-0-0,

34=38-0-0, 35=38-0-0, 36=38-0-0, 37=38-0-0, 39=38-0-0, 40=38-0-0, 41=38-0-0, 42=38-0-0, 43=38-0-0, 44=38-0-0 Max Horiz 2=-129 (LC 10)

Max Uplift 2=-19 (LC 8), 26=-82 (LC 13), 27=-19 (LC 13), 28=-36 (LC 13), 29=-33 (LC 13), 30=-33 (LC 13), 31=-34 (LC 13), 33=-42 (LC 13), 34=-5 (LC 13), 36=-11 (LC 12), 37=-40 (LC 12), 39=-34 (LC 12),

40=-33 (LC 12), 41=-33 (LC 12), 42=-37 (LC 12), 43=-16 (LC 12), 44=-93 (LC 12) Max Grav 2=175 (LC 20), 24=172 (LC 1),

26=227 (LC 26), 27=139 (LC 1), 28=164 (LC 26), 29=159 (LC 1), 30=160 (LC 1), 31=160 (LC 1), 33=163 (LC 26), 34=159 (LC 26), 35=157 (LC 22), 36=159 (LC 25), 37=163 (LC 25), 39=160 (LC 1), 40=160 (LC 1), 41=159 (LC 1), 42=164 (LC 25), 43=139 (LC 1),

FORCES (lb) - Maximum Compression/Maximum

44=227 (LC 25)

TOP CHORD 1-2=0/20, 2-4=-155/89, 4-5=-112/71 5-6=-101/74, 6-7=-93/96, 7-8=-84/154,

8-10=-85/211, 10-11=-105/269, 11-12=-128/333, 12-13=-140/367 13-14=-140/367, 14-15=-128/333, 15-16=-105/269, 16-18=-85/211,

18-19=-65/154, 19-20=-58/96, 20-21=-64/37, 21-22=-78/22, 22-24=-129/50, 24-25=0/20

BOT CHORD 2-44=-45/200, 43-44=-45/200, 42-43=-45/200, 41-42=-45/200 40-41=-45/200, 39-40=-45/200,

37-39=-45/200, 36-37=-45/200, 35-36=-45/200, 34-35=-45/200, 33-34=-45/200, 31-33=-45/200, 30-31=-45/200. 29-30=-45/200. 28-29=-45/200, 27-28=-45/200 26-27=-45/200. 24-26=-45/200 13-35=-181/28, 12-36=-119/54

11-37=-123/120, 10-39=-120/107, 8-40=-120/105, 7-41=-120/105, 6-42=-121/107, 5-43=-111/93, 4-44=-156/225,

14-34=-119/54, 15-33=-123/120, 16-31=-120/107, 18-30=-120/105 19-29=-120/105, 20-28=-121/107, 21-27=-111/92, 22-26=-156/222

NOTES

WEBS

- 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 Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 19-0-0, Corner(3R) 19-0-0 to 23-4-13, Exterior(2N) 23-4-13 to 38-9-2 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.
- 6) 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 19 lb uplift at joint 2, 11 lb uplift at joint 36, 40 lb uplift at joint 37, 34 lb uplift at joint 39, 33 lb uplift at joint 40, 33 lb uplift at joint 41, 37 lb uplift at joint 42, 16 lb uplift at joint 43, 93 lb uplift at joint 44, 5 lb uplift at joint 34, 42 lb uplift at joint 33, 34 lb uplift at joint 31, 33 lb uplift at joint 30, 33 lb uplift at joint 29, 36 lb uplift at joint 28, 19 lb uplift at joint 27, 82 lb uplift at joint 26 and 19 lb uplift at joint 2.



September 16,2025

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 54 Duncan's Creek	
251278-A	A08GE	Common Supported Gable	1	1	Job Reference (optional)	176364791

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 $ID: v0NJvVXxYoUx_MhUliXof0ydNsV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f$

Page: 2

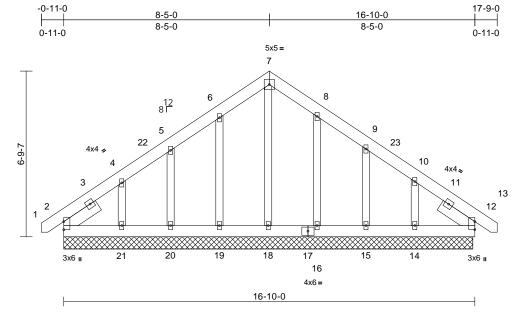
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	B01GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	176364792

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:47.2

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	0.03	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	0.08	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.1 -- 1-7-11, Right 2x6 SP SLIDER

No.1 -- 1-7-11

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=16-9-0, 12=16-9-0, 14=16-9-0, 15=16-9-0, 16=16-9-0, 18=16-9-0, 19=16-9-0, 20=16-9-0, 21=16-9-0

Max Horiz 2=-150 (LC 8)

Max Uplift 2=-38 (LC 8), 12=-1 (LC 9), 14=-86 (LC 13), 15=-45 (LC 13), 16=-33

(LC 13), 19=-39 (LC 12), 20=-43

(LC 12), 21=-92 (LC 12)

Max Grav 2=185 (LC 20), 12=173 (LC 1), 14=213 (LC 20), 15=165 (LC 20),

16=171 (LC 20), 18=124 (LC 22), 19=178 (LC 19), 20=163 (LC 19),

21=218 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-9/0, 2-4=-163/105, 4-5=-116/75,

5-6=-108/146, 6-7=-133/222, 7-8=-132/221,

8-9=-98/149, 9-10=-85/62, 10-12=-127/56,

12-13=-9/0

BOT CHORD 2-21=-49/132, 20-21=-49/132

19-20=-49/132, 18-19=-49/132, 16-18=-49/133. 15-16=-49/133.

14-15=-49/133, 12-14=-49/133 WEBS 7-18=-134/34, 6-19=-137/109,

5-20=-128/137, 4-21=-161/212,

8-16=-129/105, 9-15=-131/137,

10-14=-156/214

- 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 Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 8-5-0, Corner(3R) 8-5-0 to 12-9-13, Exterior(2N) 12-9-13 to 17-7-7 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 38 lb uplift at joint 2, 39 lb uplift at joint 19, 43 lb uplift at joint 20, 92 lb uplift at joint 21, 33 lb uplift at joint 16, 45 lb uplift at joint 15, 86 lb uplift at joint 14 and 1 lb uplift at joint 12.

LOAD CASE(S) Standard



September 16,2025

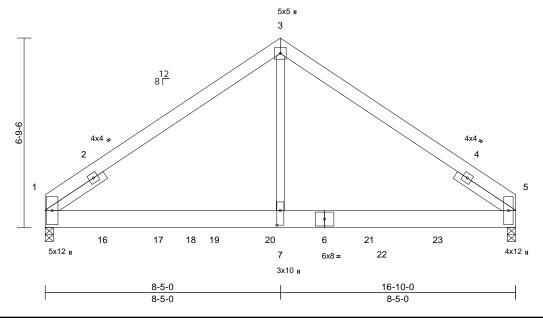
NOTES



Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	B02-GR	COMMON GIRDER	1	3	Job Reference (optional)	176364793

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-6-0,0-0-8], [5:0-6-3,0-1-0], [7:0-6-4,0-1-8]

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	0.20	Vert(LL)	-0.09	7-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.17	7-14	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.62	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.05	7-10	>999	240	Weight: 349 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1

2x8 SP 2400F 2.0E *Except* 6-5:2x8 SP BOT CHORD

No.1

WFBS 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 or

6-0-0 oc purlins.

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

bracing.

REACTIONS 1=0-3-8, 5=0-3-8 (size)

Max Horiz 1=-135 (LC 4)

Max Uplift 1=-325 (LC 8)

Max Grav 1=6601 (LC 2), 5=8094 (LC 2) (lb) - Maximum Compression/Maximum

FORCES

Tension 1-3=-7163/339. 3-5=-7163/274

TOP CHORD **BOT CHORD** 1-7=-129/5972, 5-7=-129/5972

WEBS 3-7=-153/7536

NOTES

1) 3-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 - 2 rows staggered at 0-4-0 oc.

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 $\dot{\text{CASE}(S)}$ 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); 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 325 lb uplift at joint
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1569 lb down and 114 lb up at 2-0-12, 1569 lb down and 114 lb up at 4-0-12, 1542 lb down and 114 lb up at 6-0-12, 1546 lb down and 114 lb up at 8-0-12, 1539 lb down and 114 lb up at 10-0-12, 1561 lb down and 114 lb up at 12-0-12, and 1872 lb down at 14-0-12, and 1876 lb down at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-5=-60, 8-12=-20

Concentrated Loads (lb)

Vert: 6=-1371 (B), 14=-1591 (B), 16=-1371 (B), 17=-1371 (B), 19=-1371 (B), 20=-1371 (B), 22=-1371

(B), 23=-1589 (B)



September 16,2025

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

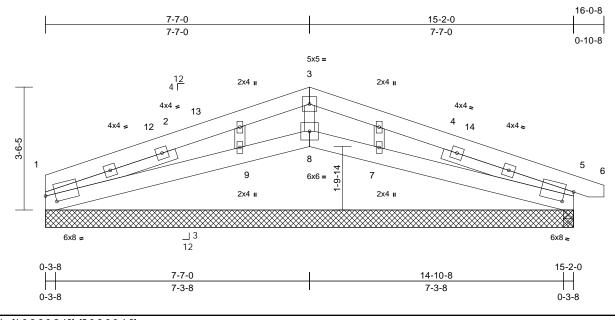
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-A	C01GE	GABLE	1	1	Job Reference (optional)	6364794

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:33.1

Plate Offsets (X, Y): [1:0-3-6,0-2-12], [5:0-3-0,0-4-2]

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	0.21	Vert(LL)	-0.01	1-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	1-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.01	5-7	>999	240	Weight: 92 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 3-11-8, Right 2x4 SP

No.2 -- 3-11-8

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=15-2-0, 5=15-2-0, 7=15-2-0,

8=15-2-0, 9=15-2-0

Max Horiz 1=42 (LC 12)

1=-69 (LC 8), 5=-101 (LC 9), 8=-60 Max Uplift

(LC 8)

1=322 (LC 1), 5=370 (LC 1), 7=237 Max Grav

(LC 3), 8=245 (LC 1), 9=239 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-592/511, 3-5=-613/489, 5-6=-19/0

1-9=-394/512, 8-9=-385/485, 7-8=-386/485, **BOT CHORD**

5-7=-392/513

WFBS 3-8=-72/8

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) 0-1-5 to 4-6-2, Interior (1) 4-6-2 to 7-7-0, Exterior(2R) 7-7-0 to 11-11-13, Interior (1) 11-11-13 to 15-9-13 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 1, 60 lb uplift at joint 8 and 101 lb uplift at joint 5.

LOAD CASE(S) Standard



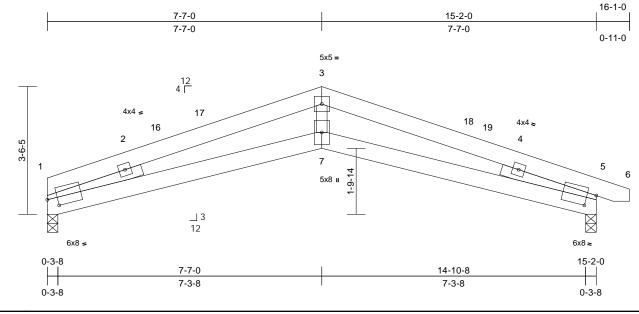
September 16,2025



Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	C02	SCISSORS	4	1	Job Reference (optional)	176364795

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:31.8

Plate Offsets (X, Y): [1:0-3-6,0-2-12], [5:0-3-0,0-4-2]

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	0.17	Vert(LL)	-0.09	` Ź	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.17	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	7	>999	240	Weight: 86 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 -- 2-9-0, Right 2x4 SP No.2

-- 2-9-0

BRACING TOP CHORD

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

REACTIONS (size) 1=0-3-8, 5=0-3-8

Max Horiz 1=-36 (LC 13) Max Uplift 1=-47 (LC 8), 5=-72 (LC 9) Max Grav 1=606 (LC 1), 5=649 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-3=-1854/774, 3-5=-1854/776, 5-6=0/13 TOP CHORD

BOT CHORD 1-7=-646/1756, 5-7=-642/1756 **WEBS**

3-7=-228/859

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) 0-0-0 to 4-4-13, Interior (1) 4-4-13 to 7-7-0, Exterior(2R) 7-7-0 to 11-11-13, Interior (1) 11-11-13 to 15-10-5 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 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.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1 and 72 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



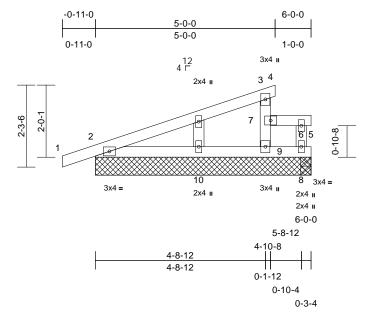
September 16,2025



Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	M01GE	GABLE	1	1	Job Reference (optional)	176364796

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32

		l	•		-	·		-				
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	0.18	Vert(LL)	-0.01	10-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.01	10-14	>999	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)	0.01	10-14	>999	240	Weight: 24 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 3-7

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

bracing.

REACTIONS (size) 2=6-0-0, 7=6-0-0, 8=0-3-8, 9=6-0-0, 10=6-0-0

Max Horiz 2=68 (LC 8)

Max Uplift 2=-46 (LC 8), 7=-68 (LC 12), 8=-21

(LC 12), 9=-24 (LC 1), 10=-13 (LC

12)

Max Grav 2=188 (LC 1), 7=217 (LC 1), 8=139

(LC 1), 9=36 (LC 12), 10=164 (LC

1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-64/31, 3-4=-2/0, 7-9=0/0, 3-7=-111/152

2-10=-47/74, 9-10=0/0, 8-9=0/0, 6-7=0/0, 5-6=0/0

WEBS 6-8=-116/62

NOTES

BOT CHORD

- 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) -0-11-0 to 3-5-13, Interior (1) 3-5-13 to 5-0-0 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 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.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 9, 46 lb uplift at joint 2, 68 lb uplift at joint 7, 13 lb uplift at joint 10, 21 lb uplift at joint 8 and 46 lb uplift at joint 2.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-20, 8-12=-20, 6-7=-220, 5-6=-20



September 16,2025

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

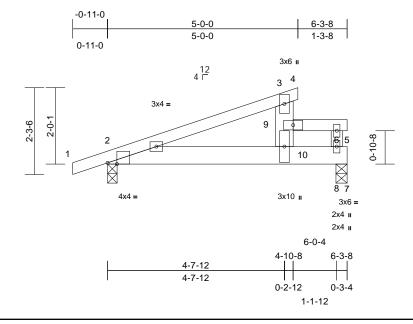
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-A	M02	Roof Special	5	1	Job Reference (optional)	176364797

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.3

Plate Offsets (X, Y): [2:0-2-15,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	0.35	Vert(LL)	-0.06	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.13	10-12	>557	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.24	10-12	>293	240	Weight: 30 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1

2x6 SP 2400F 2.0E *Except* 9-5:2x4 SP BOT CHORD

No.1

WFBS 2x6 SP No.1 *Except* 6-8:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 3-9

BOT CHORD Rigid ceiling directly applied or 7-6-8 oc

bracing.

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

Max Horiz 2=69 (LC 8)

Max Uplift 2=-200 (LC 8), 8=-417 (LC 8)

Max Grav 2=478 (LC 1), 8=944 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-409/594, 3-4=-102/112,

9-10=-1043/1877, 3-9=-494/621

BOT CHORD 2-10=-644/355, 8-10=0/0, 7-8=0/0, 6-9=0/0,

5-6=0/0

WFBS 6-8=-109/210

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 5-0-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 2 and 417 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down and 355 lb up at 5-0-0 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 + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 2-7=-20, 6-9=-130, 5-6=-20

Concentrated Loads (lb)

Vert: 4=-300 (F), 9=-460



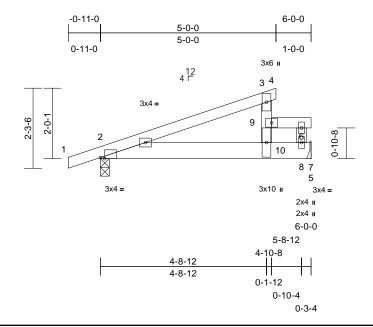
September 16,2025



Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	M03	Roof Special	3	1	Job Reference (optional)	176364798

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.8

Plate Offsets (X, Y): [2:0-1-7,Edge]

-		1					-					•
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	0.31	Vert(LL)	-0.05	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.10	10-12	>644	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.19	10-12	>355	240	Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1

BOT CHORD 2x6 SP No.1 *Except* 9-5:2x4 SP No.1

2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 3-9

BOT CHORD Rigid ceiling directly applied or 5-1-7 oc

bracing

REACTIONS (size) 2=0-3-0, 8= Mechanical Max Horiz 2=69 (LC 8)

Max Uplift 2=-176 (LC 8), 8=-353 (LC 8)

Max Grav 2=426 (LC 1), 8=831 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-338/456, 3-4=-2/0,

9-10=-907/1627, 3-9=-432/556

BOT CHORD 2-10=-521/293, 8-10=0/0, 7-8=0/0, 6-9=0/0,

5-6=0/0

WEBS 6-8=-38/24

NOTES

FORCES

- Unbalanced roof live loads have been considered for
- 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 5-0-0 zone; 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 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 176 lb uplift at joint 2 and 353 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down and 355 lb up at 5-0-0 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-20, 2-7=-20, 6-9=-30 (F=-10),

5-6=-20

Concentrated Loads (lb)

Vert: 3=-300 (F), 9=-460



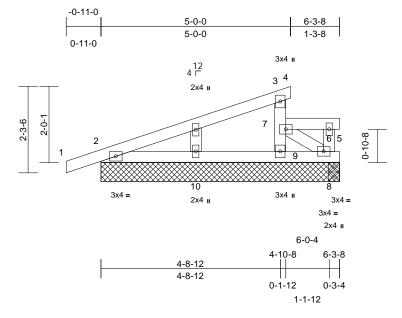
September 16,2025



Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	M04GE	GABLE	1	1	Job Reference (optional)	176364799

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:48 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.4

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	0.17	Vert(LL)	0.00	10-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.01	10-14	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.01	10-14	>999	240	Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD

Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 3-7

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

bracing.

REACTIONS (size) 2=6-3-8, 8=6-3-8, 9=6-3-8,

10=6-3-8

Max Horiz 2=68 (LC 8)

2=-45 (LC 8), 8=-30 (LC 12), 9=-31 Max Uplift

(LC 8), 10=-16 (LC 12)

2=176 (LC 1), 8=177 (LC 1), 9=236 Max Grav

(LC 1), 10=165 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/17, 2-3=-54/20, 3-4=-2/0,

7-9=-234/238, 3-7=-105/145

BOT CHORD 2-10=-44/67, 9-10=-14/10, 8-9=-25/18,

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

WEBS 6-8=-148/106, 7-8=-21/30

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) -0-11-0 to 3-5-13, Interior (1) 3-5-13 to 5-0-0 zone; 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.

- 4) * 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 9, 45 lb uplift at joint 2, 30 lb uplift at joint 8, 16 lb uplift at joint 10 and 45 lb uplift at joint 2.

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=-20, 8-12=-20, 6-7=-220, 5-6=-20



September 16,2025

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

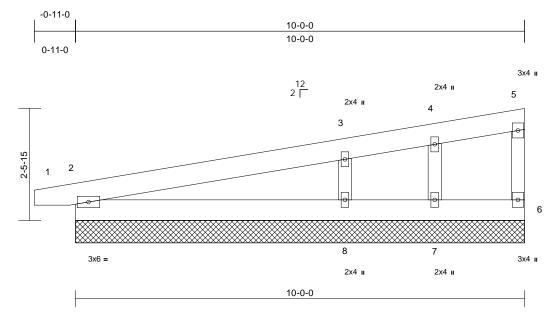
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-A	M05GE	Monopitch Supported Gable	1	1	Job Reference (optional)	176364800

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:49 ID:v2RkaifzQzxAv_AMH_244WydNfQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le	=	1	:25	. 7

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 55 lb	FT = 20%

LUMBER

TOP CHORD 2x6 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, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=10-0-0, 6=10-0-0, 7=10-0-0, 8=10-0-0

Max Horiz 2=58 (LC 8)

Max Uplift 2=-28 (LC 8), 6=-43 (LC 12),

8=-103 (LC 12)

Max Grav 2=248 (LC 25), 6=49 (LC 25), 7=557 (LC 3), 8=393 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/5, 2-3=-151/30, 3-4=-49/0, 4-5=-22/2,

5-6=-78/89

BOT CHORD 2-8=-152/54, 7-8=-17/18, 6-7=-17/18

WEBS 4-7=0/91, 3-8=-414/441

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) -0-6-4 to 3-10-8, Exterior(2N) 3-10-8 to 9-10-4 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.
- 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 28 lb uplift at joint 2, 43 lb uplift at joint 6, 103 lb uplift at joint 8 and 28 lb uplift at joint 2.
- 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



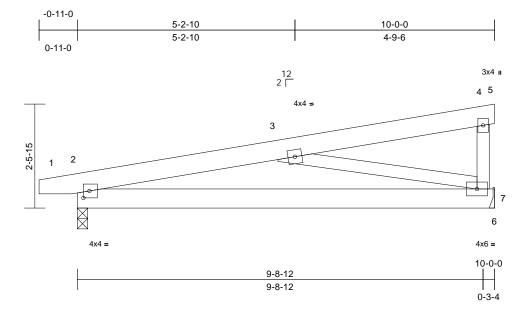
September 16,2025



١	Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek
	251278-A	M06	Monopitch	7	1	Job Reference (optional)

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:49

Page: 1



Scale = 1:27.6

Plate Offsets (X, Y): [2:0-1-12,0-2-0]

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)	-0.04	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.09	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	7-10	>999	240	Weight: 59 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 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=58 (LC 8)

Max Uplift 2=-163 (LC 8), 7=-157 (LC 8) Max Grav 2=421 (LC 1), 7=399 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/5, 2-3=-785/659, 3-4=-109/60,

4-5=-1/0, 4-7=-146/135

BOT CHORD 2-7=-724/754, 6-7=0/0

WEBS 3-7=-695/661

NOTES

- Unbalanced roof live loads have been considered for
- 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) -0-6-4 to 3-10-8, Interior (1) 3-10-8 to 10-0-0 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 7 and 163 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



September 16,2025



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

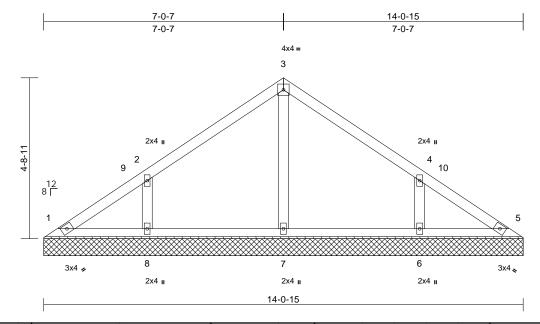
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-A	VB1	Valley	1	1	Job Reference (optional)	

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:49 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.8

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	0.13	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	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 55 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=14-0-15, 5=14-0-15, 6=14-0-15,

7=14-0-15, 8=14-0-15

Max Horiz 1=106 (LC 11)

Max Uplift 1=-13 (LC 8), 6=-97 (LC 13), 8=-97

(LC 12)

1=102 (LC 20), 5=88 (LC 1), 6=336 Max Grav (LC 20), 7=260 (LC 1), 8=336 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-105/83, 2-3=-125/119, 3-4=-113/114, 4-5=-77/46

BOT CHORD 1-8=-29/62, 7-8=-29/62, 6-7=-29/62, 5-6=-29/62

WEBS 3-7=-177/19, 2-8=-262/218, 4-6=-262/218

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) 0-5-15 to 4-10-12, Interior (1) 4-10-12 to 7-1-0, Exterior(2R) 7-1-0 to 11-5-13, Interior (1) 11-5-13 to 13-8-2 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 13 lb uplift at joint 1, 97 lb uplift at joint 8 and 97 lb uplift at joint 6.

LOAD CASE(S) Standard



September 16,2025

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

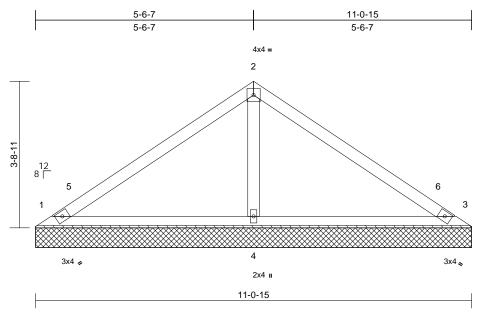
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 54 Duncan's Creek	
251278-A	VB2	Valley	1	1	Job Reference (optional)	176364803

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:49 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.3

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: 39 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=11-0-15, 3=11-0-15, 4=11-0-15

Max Horiz 1=82 (LC 11)

Max Uplift 1=-25 (LC 12), 3=-33 (LC 13) 1=202 (LC 1), 3=202 (LC 1), 4=410 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-148/88, 2-3=-141/86

BOT CHORD 1-4=-14/64, 3-4=-14/64

WFBS 2-4=-260/141

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) 0-5-15 to 4-10-12, Interior (1) 4-10-12 to 5-7-0, Exterior(2R) 5-7-0 to 9-11-13, Interior (1) 9-11-13 to 10-8-2 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 25 lb uplift at joint 1 and 33 lb uplift at joint 3.

LOAD CASE(S) Standard



September 16,2025

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

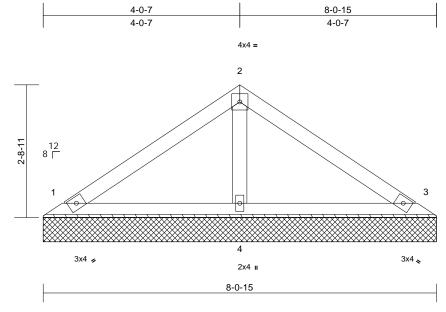
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-A	VB3	Valley	1	1	Job Reference (optional)	176364804

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:49 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:23.7

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	0.18	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	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 28 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=8-0-15, 3=8-0-15, 4=8-0-15

Max Horiz 1=-58 (LC 10)

Max Uplift 1=-25 (LC 12), 3=-30 (LC 13)

Max Grav 1=156 (LC 1), 3=156 (LC 1), 4=262

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-95/67, 2-3=-87/67 BOT CHORD 1-4=-11/41, 3-4=-11/41 WFBS 2-4=-172/113

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 25 lb uplift at joint 1 and 30 lb uplift at joint 3.

LOAD CASE(S) Standard



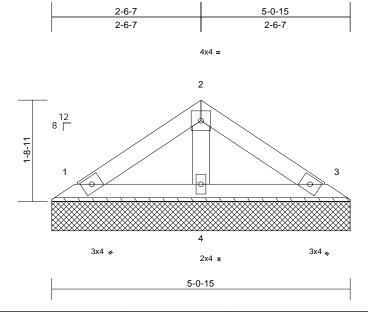
September 16,2025



Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	VB4	Valley	1	1	I763648 Job Reference (optional)	05

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:02:49 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:19.6

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	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: 17 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

5-2-1 oc purlins.

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

bracing.

REACTIONS (size) 1=5-0-15, 3=5-0-15, 4=5-0-15

Max Horiz 1=-34 (LC 8)

Max Uplift 1=-14 (LC 12), 3=-18 (LC 13) Max Grav 1=91 (LC 1), 3=91 (LC 1), 4=153

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-55/47, 2-3=-51/47 BOT CHORD 1-4=-6/24, 3-4=-6/24

WFBS 2-4=-100/83

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 14 lb uplift at joint 1 and 18 lb uplift at joint 3.

LOAD CASE(S) Standard



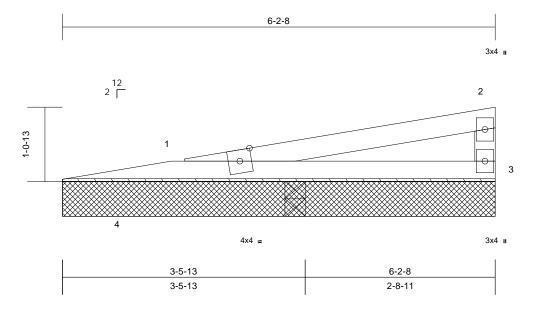
September 16,2025



Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-A	VC1	Valley	1	1	Job Reference (optional)	176364806

Run: 25.30 E Sep 7 2025 Print: 25.3.0 E Sep 7 2025 MiTek Industries. Inc. Tue Sep 16 17:35:07 ID:_e7gPyu?spEwbQqvcKsS4XydNcX-7BsHq8?2mc07NF8?ceqgmNGlpq9Ezh3rClMvH3yd90Y

Page: 1



Scale = 1:16.5

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	0.07	Vert(LL)	0.00	3-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	3-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.00	3-6	>999	240	Weight: 17 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SP No.1 2x4 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. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (lb/size) 1=160/6-2-8, 3=97/6-2-8,

4=12/6-2-8 Max Horiz 4=15 (LC 8)

Max Uplift 3=-15 (LC 8)

Max Grav 1=163 (LC 3), 3=97 (LC 1), 4=36

(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

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 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 100 lb uplift at joint



September 16,2025



Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

DSB-22: ANSI/TPI1:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

© 2023 MiTek® All Rights Reserved

MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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

- 9 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 251278-B

Lot 54 Duncan's 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: I76366206 thru I76366220

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

North Carolina COA: C-0844



September 16,2025

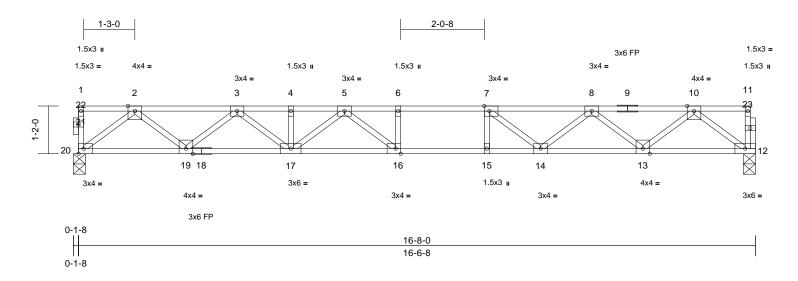
Gilbert, Eric

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.

Γ,	Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
	251278-B	F01	FLOOR	4	1	Job Reference (optional)	366206

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:52 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:28.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.25	16-17	>788	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.34	16-17	>576	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 83 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, Except: 2-2-0 oc bracing: 15-16.

REACTIONS (size) 12=0-3-8, 20=0-3-8

Max Grav 12=893 (LC 1), 20=899 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-35/0, 11-12=-41/0, 1-2=0/0, 2-3=-1827/0, 3-4=-3040/0, 4-5=-3040/0,

5-6=-3468/0, 6-7=-3468/0, 7-8=-3003/0,

8-10=-1869/0, 10-11=-2/0

BOT CHORD 19-20=0/1073, 17-19=0/2554, 16-17=0/3362,

15-16=0/3468, 14-15=0/3468, 13-14=0/2582,

12-13=0/1117

WEBS 2-20=-1370/0, 2-19=0/982, 3-19=-945/0,

3-17=0/621, 10-12=-1399/0, 10-13=0/979, 8-13=-928/0, 8-14=0/596, 7-14=-751/0, 4-17=-87/0, 5-17=-411/0, 5-16=-166/492,

6-16=-219/0, 7-15=-74/197

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



September 16,2025



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

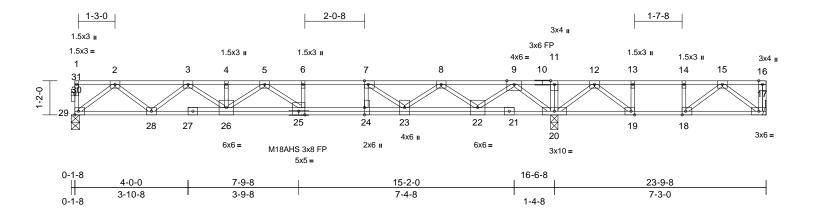
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 54 Duncan's Creek	
251278-B	F02	FLOOR	3	1	Job Reference (optional)	176366207

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:53 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:39.4

Plate Offsets (X, Y): [7:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge], [24:0-3-0,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	0.59	Vert(LL)	-0.18	25-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.24	25-26	>802	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 134 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= Mechanical, 20=0-3-0,

REACTIONS (size) 29=0-3-8

Max Uplift 17=-65 (LC 3)

17=330 (LC 4), 20=1556 (LC 1), Max Grav

29=829 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-29=-35/0, 16-17=-51/5, 1-2=0/0,

2-3=-1643/0, 3-4=-2810/0, 4-5=-2810/0, 5-6=-3034/0, 6-7=-3050/0, 7-8=-2346/0, 8-9=-1002/0, 9-11=0/1325, 11-12=0/1325,

12-13=-440/404, 13-14=-440/404,

14-15=-440/404, 15-16=0/0

28-29=0/978, 26-28=0/2336, 24-26=0/3050, BOT CHORD

> 23-24=0/3050, 22-23=0/1833, 20-22=-134/101, 19-20=-835/84

18-19=-404/440, 17-18=-121/342 WEBS

11-20=-165/0, 2-29=-1248/0, 2-28=0/865, 3-28=-903/0, 3-26=0/592, 4-26=-78/0,

5-26=-328/0, 5-25=-223/298, 6-25=-134/0, 9-20=-1507/0, 9-22=0/1161, 8-22=-1077/0, 8-23=0/676, 7-23=-1016/0, 7-24=-17/401,

15-17=-429/151, 12-20=-808/0, 15-18=-361/124, 12-19=0/784, 13-19=-372/0,

14-18=-83/165

NOTES

Unbalanced floor live loads have been considered for this design.

- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation 4) about its center.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 17.
- 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



September 16,2025



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

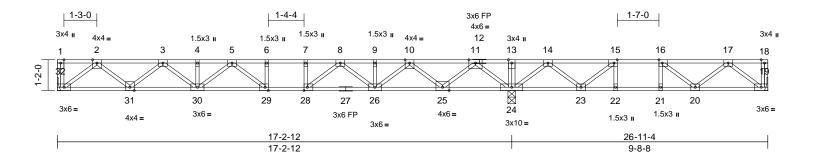
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-B	F03	Floor	3	1	Job Reference (optional)	6366208

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:43.7

Plate Offsets (X, Y): [15:0-1-8,Edge], [16:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	тс	0.64	Vert(LL)	-0.21	29-30	>974	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.29	29-30	>712	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.04	24	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 138 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

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= Mechanical, 24=0-3-8, 32=

Mechanical Max Uplift 19=-54 (LC 3)

Max Grav 19=442 (LC 4), 24=1814 (LC 1),

32=832 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-32=-39/0, 18-19=-29/9, 1-2=0/0, 2-3=-1696/0, 3-4=-2727/0, 4-5=-2727/0, 5-6=-2948/0, 6-7=-2948/0, 7-8=-2948/0,

8-9=-2022/0, 9-10=-2022/0, 10-11=-468/115, 11-13=0/2101, 13-14=0/2101,

14-15=-364/1054, 15-16=-820/577, 16-17=-714/242, 17-18=0/0

31-32=0/1030, 30-31=0/2335, 29-30=0/2961, BOT CHORD

28-29=0/2948, 26-28=0/2535, 25-26=0/1360, 24-25=-785/0, 23-24=-1413/0, 22-23=-577/820, 21-22=-577/820

20-21=-577/820. 19-20=-65/534 WFBS 13-24=-128/0, 2-32=-1292/0, 11-24=-1651/0,

2-31=0/867, 11-25=0/1232, 3-31=-831/0, 10-25=-1193/0, 3-30=0/501, 4-30=-81/0, 10-26=0/881, 9-26=-112/0, 5-30=-299/0, 8-26=-692/0, 5-29=-304/286, 8-28=0/743,

6-29=-135/90, 7-28=-325/0, 17-19=-670/82, 14-24=-1077/0, 17-20=-230/234,

14-23=0/771, 16-20=-136/428, 15-23=-943/0,

15-22=0/302, 16-21=-276/0

- 1) 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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 16,2025

NOTES

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

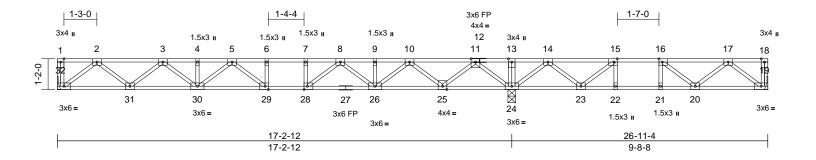
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-B	F04	FLOOR	6	1	Job Reference (optional)	

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:43.7

Plate Offsets (X, Y): [15:0-1-8,Edge], [16:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	\(\(\mathrea{\pi}\)	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.17	29-30	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.23	29-30	>891	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	24	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 138 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

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= Mechanical, 24=0-3-8, 32=

Mechanical Max Uplift 19=-43 (LC 3)

Max Grav 19=354 (LC 4), 24=1450 (LC 1),

32=666 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-32=-31/0, 18-19=-23/7, 1-2=0/0, 2-3=-1356/0, 3-4=-2180/0, 4-5=-2180/0,

5-6=-2357/0, 6-7=-2357/0, 7-8=-2357/0, 8-9=-1617/0, 9-10=-1617/0, 10-11=-374/92, 11-13=0/1679, 13-14=0/1679,

14-15=-291/843, 15-16=-655/462, 16-17=-570/193, 17-18=0/0

31-32=0/823, 30-31=0/1866, 29-30=0/2368, BOT CHORD

28-29=0/2357, 26-28=0/2027, 25-26=0/1087, 24-25=-627/0, 23-24=-1129/0, 22-23=-462/655, 21-22=-462/655,

20-21=-462/655, 19-20=-52/427 WFBS 13-24=-102/0, 2-32=-1033/0, 11-24=-1320/0,

2-31=0/693, 11-25=0/985, 3-31=-664/0, 10-25=-954/0, 3-30=0/400, 4-30=-65/0, 10-26=0/704, 9-26=-90/0, 5-30=-239/0 8-26=-553/0, 5-29=-243/229, 8-28=0/594, 6-29=-108/72, 7-28=-259/0, 17-19=-536/65, 14-24=-861/0, 17-20=-184/187, 14-23=0/616,

16-20=-108/342, 15-23=-754/0, 15-22=0/242, 16-21=-220/0

- 1) 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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 16,2025

NOTES

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

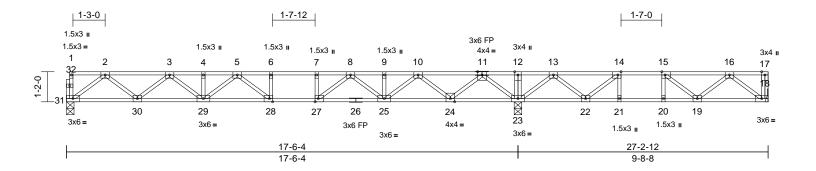
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-B	F05	Floor	4	1	Job Reference (optional)	3366210

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:44.7

Plate Offsets (X, Y): [1-	4:0-1-8, Edge], [[15:0-1-8,Edge],	[27:0-1-8, Edge],	[28:0-1-8,Edge]
---------------------------	-------------------	------------------	-------------------	-----------------

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	\(\(\mathrea{\pi}\)	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.19	(/	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	0.65	Vert(CT)	-0.25	28-29	>821	360	-	
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.04	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing. REACTIONS (size) 18= Mechanical, 23=0-3-8,

31=0-3-8

Max Uplift 18=-46 (LC 3)

18=354 (LC 4), 23=1465 (LC 1), Max Grav

31=673 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-31=-28/0, 17-18=-23/8, 1-2=-2/0,

2-3=-1387/0, 3-4=-2244/0, 4-5=-2244/0,

5-6=-2443/0, 6-7=-2443/0, 7-8=-2443/0,

8-9=-1653/0, 9-10=-1653/0, 10-12=-379/1699, 12-13=0/1699

13-14=-290/862, 14-15=-655/475,

15-16=-570/201, 16-17=0/0

BOT CHORD 30-31=0/839, 29-30=0/1914, 28-29=0/2445,

27-28=0/2443, 25-27=0/2079, 24-25=0/1107. 23-24=-630/0, 22-23=-1153/0,

21-22=-475/655, 20-21=-475/655,

19-20=-475/655, 18-19=-56/427 12-23=-102/0, 2-31=-1051/0, 2-30=0/713,

3-30=-685/0, 3-29=0/421, 4-29=-64/0,

11-23=-1340/0, 11-24=0/1004, 10-24=-972/0,

10-25=0/723, 9-25=-94/0, 8-25=-572/0,

8-27=0/643, 5-29=-257/0, 5-28=-236/251

6-28=-122/65, 7-27=-285/0, 16-18=-536/70,

13-23=-864/0, 16-19=-189/187, 13-22=0/620, 15-19=-108/350, 14-22=-760/0, 14-21=0/245,

15-20=-224/0

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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 18
- 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



September 16,2025

WFBS

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

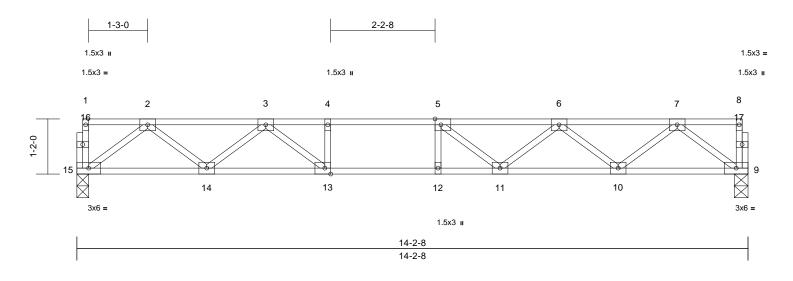
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-B	F07	FLOOR	2	1	Job Reference (optional)	176366211

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:24.4

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	0.56	Vert(LL)	-0.17	11-12	>965	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.23	11-12	>728	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 70 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

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, 15=0-3-0

Max Grav 9=761 (LC 1), 15=761 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-15=-35/0, 8-9=-43/0, 1-2=-2/0, 2-3=-1521/0,

3-4=-2508/0, 4-5=-2508/0, 5-6=-2350/0,

6-7=-1541/0, 7-8=-3/0

BOT CHORD 14-15=0/944, 13-14=0/2093, 12-13=0/2508,

11-12=0/2508, 10-11=0/2118, 9-10=0/937

WEBS 2-15=-1183/0, 2-14=0/751, 3-14=-744/0, 3-13=0/715, 4-13=-303/0, 7-9=-1172/0,

7-10=0/787, 6-10=-751/0, 6-11=0/386,

5-11=-421/24, 5-12=-151/72

NOTES

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



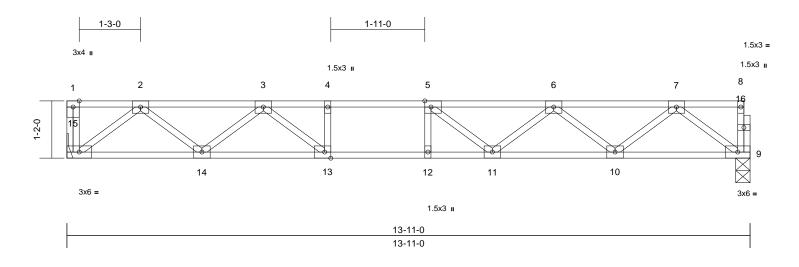
September 16,2025



Γ,	Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
:	251278-B	F08	Floor	2	1	Job Reference (optional)	176366212

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:23.5

Plate Offsets (X, Y):	[5:0-1-8,Edge]	, [13:0-1-8,Edge]
-----------------------	----------------	-------------------

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.15	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.20	11-12	>836	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 70 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, 15= Mechanical Max Grav 9=745 (LC 1), 15=752 (LC 1) **FORCES**

Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-15=-39/0, 8-9=-43/0, 1-2=0/0, 2-3=-1483/0,

3-4=-2411/0, 4-5=-2411/0, 5-6=-2271/0,

6-7=-1501/0, 7-8=-3/0

BOT CHORD 14-15=0/924, 13-14=0/2034, 12-13=0/2411,

11-12=0/2411, 10-11=0/2059, 9-10=0/916 2-15=-1159/0, 2-14=0/728, 3-14=-717/0,

WEBS 3-13=0/658, 4-13=-270/0, 7-9=-1146/0,

7-10=0/763, 6-10=-725/0, 6-11=0/358,

5-11=-387/39. 5-12=-148/68

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x4 (=) MT20 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 16,2025



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

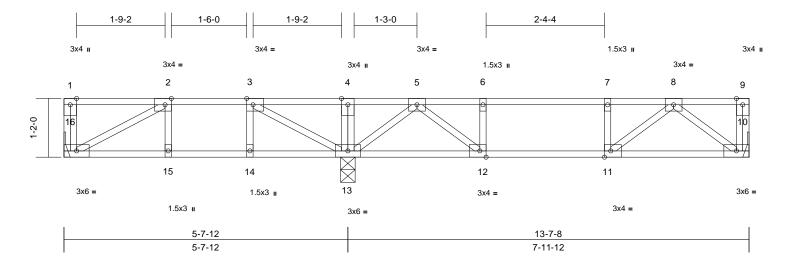
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Jol)	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
25	1278-B	F09	Floor	3	1	Job Reference (optional)	176366213

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:22.9

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,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	0.27	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.19	Vert(CT)	-0.04	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 69 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

BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 10= Mechanical, 13=0-3-8, 16=

Mechanical

Max Grav 10=429 (LC 7), 13=770 (LC 1),

16=310 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD $1-16=-91/0,\ 9-10=-60/0,\ 1-2=0/0,\ 2-3=-410/0,$

3-4=-64/184, 4-5=-67/181, 5-6=-763/0, 6-7=-763/0, 7-8=-763/0, 8-9=0/0

BOT CHORD 15-16=0/410, 14-15=0/410, 13-14=0/410,

12-13=0/455, 11-12=0/763, 10-11=0/470 **WEBS** 4-13=-195/0, 2-16=-465/0, 3-13=-533/0,

2-15=-18/21, 3-14=0/53, 5-13=-595/0,

8-10=-590/0, 5-12=0/462, 8-11=0/374,

6-12=-250/0, 7-11=-207/0

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.
- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 16,2025



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

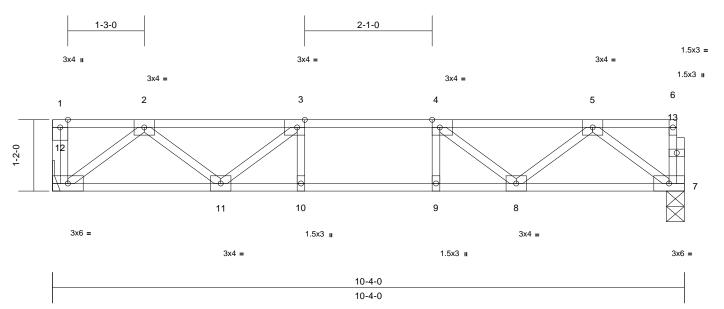
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 54 Duncan's Creek	
2	251278-B	F10	FLOOR	5	1	Job Reference (optional)	176366214

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:18.8

Plate Offsets (X, Y): [3:0-1-8,Edge], [4:0-1-8,Edge]	lge]
--	------

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	0.19	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.06	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 52 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)

7=0-3-8, 12= Mechanical Max Grav 7=438 (LC 1), 12=443 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-30/0, 6-7=-27/0, 1-2=0/0, 2-3=-799/0, 3-4=-1055/0, 4-5=-799/0, 5-6=-2/0

BOT CHORD 11-12=0/533, 10-11=0/1055, 9-10=0/1055, 8-9=0/1055, 7-8=0/533

2-12=-669/0, 2-11=0/347, 3-11=-359/0,

3-10=-58/81, 5-7=-666/0, 5-8=0/347,

4-8=-359/0. 4-9=-58/81

NOTES

WEBS

- 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



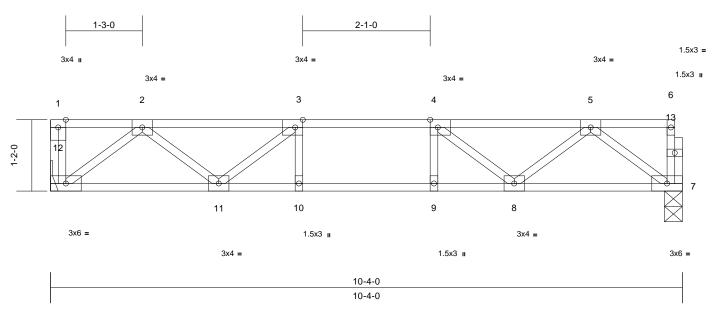
September 16,2025



Job		Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278	3-B	F11	FLOOR	6	1	Job Reference (optional)	176366215

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:18.8

Plate Offsets (X, Y): [3:0-1-8,Edge], [4:0-1-8,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	0.24	Vert(LL)	-0.06	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.07	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 52 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)

7=0-3-8, 12= Mechanical Max Grav 7=548 (LC 1), 12=555 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-37/0, 6-7=-33/0, 1-2=0/0, 2-3=-1000/0,

3-4=-1319/0, 4-5=-1000/0, 5-6=-2/0

BOT CHORD 11-12=0/667, 10-11=0/1319, 9-10=0/1319,

8-9=0/1319, 7-8=0/666

WEBS 2-12=-836/0, 2-11=0/434, 3-11=-449/0, 5-7=-833/0, 5-8=0/434, 4-8=-449/0,

4-9=-73/101, 3-10=-73/102

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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



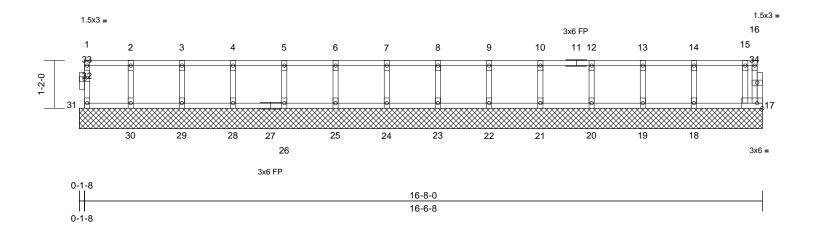
September 16,2025



Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-B	FKW1	Floor Supported Gable	1	1	Job Reference (optional)	176366216

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:28.1

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	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 71 lb	FT = 20%F, 11%E

LUMBER

BOT CHORD WEBS

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

20=16-8-0, 21=16-8-0, 22=16-8-0, 23=16-8-0, 24=16-8-0, 25=16-8-0, 26=16-8-0, 28=16-8-0, 29=16-8-0,

Max Grav 17=80 (LC 1), 18=155 (LC 1), 19=132 (LC 1), 20=139 (LC 1), 21=137 (LC 1), 22=138 (LC 1), 23=137 (LC 1), 24=138 (LC 1), 25=137 (LC 1), 26=138 (LC 1),

FORCES

TOP CHORD 1-31=-50/0, 16-17=0/2, 1-2=-12/0, 2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0,

7-8=-12/0, 8-9=-12/0, 9-10=-12/0, 10-12=-12/0, 12-13=-12/0, 13-14=-12/0,

BOT CHORD 30-31=0/12, 29-30=0/12, 28-29=0/12,

> 23-24=0/12, 22-23=0/12, 21-22=0/12, 20-21=0/12, 19-20=0/12, 18-19=0/12,

17-18=0/12

WEBS 2-30=-117/0, 3-29=-127/0, 4-28=-124/0

> 8-23=-125/0, 9-22=-125/0, 10-21=-125/0 12-20=-126/0, 13-19=-122/0, 14-18=-137/0,

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

2x4 SP No.3(flat) OTHERS

BRACING TOP CHORD Structural wood sheathing directly applied or

bracing.

REACTIONS (size) 17=16-8-0, 18=16-8-0, 19=16-8-0,

30=16-8-0, 31=16-8-0

28=137 (LC 1), 29=141 (LC 1),

30=124 (LC 1), 31=59 (LC 1)

(lb) - Maximum Compression/Maximum

14-15=-12/0, 15-16=0/1

26-28=0/12, 25-26=0/12, 24-25=0/12,

5-26=-125/0, 6-25=-125/0, 7-24=-125/0,

15-17=-80/0

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 1-3-0 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



September 16,2025

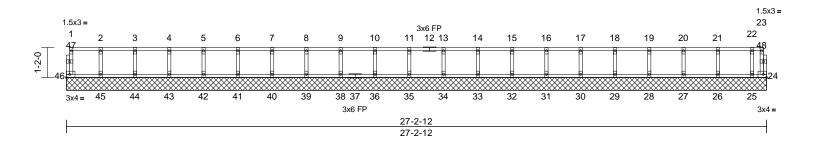




Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-B	FKW2	Floor Supported Gable	1	1	Job Reference (optional)	176366217

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 ig K2 ne 3 CQdqy 3 dwn CxyStr D-Rf C? Ps B70 Hq3NSgPqn L8w 3 uITXbGKWr CDoi 7J4z JC? full for the control of the co

Page: 1



Scale = 1:44.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	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	24	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 113 lb	FT = 20%F, 11%E

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) 2x4 SP No.3(
34=147 (IC 1) 35=147 (IC 1) 4) Truss to be fully sheathed from one face or securely

45=148 (LC 1), 46=52 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum Tension

39=147 (LC 1), 40=147 (LC 1),

41=147 (LC 1), 42=147 (LC 1),

43=147 (LC 1), 44=147 (LC 1),

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)



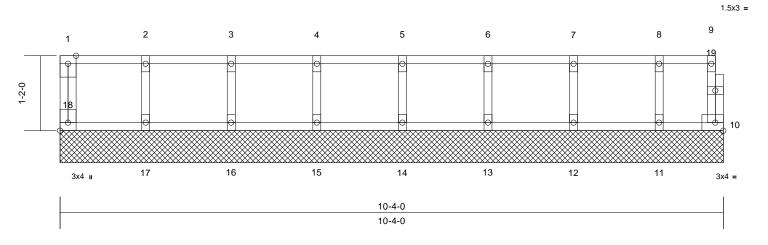
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-B	FKW3	Floor Supported Gable	1	1	Job Reference (optional)	176366218

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1

3x4 II



Scale = 1:17.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	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	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 45 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.

Max Grav

REACTIONS (size) 10=10-4-0, 11=10-4-0, 12=10-4-0, 13=10-4-0, 14=10-4-0, 15=10-4-0,

16=10-4-0, 17=10-4-0, 18=10-4-0 10=37 (LC 1), 11=122 (LC 1), 12=152 (LC 1), 13=145 (LC 1), 14=147 (LC 1), 15=147 (LC 1),

16=147 (LC 1), 17=146 (LC 1),

18=60 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-18=-55/0, 9-10=-32/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0,

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

BOT CHORD 17-18=0/7, 16-17=0/7, 15-16=0/7, 14-15=0/7, 13-14=0/7, 12-13=0/7, 11-12=0/7, 10-11=0/7

WEBS 2-17=-132/0, 3-16=-134/0, 4-15=-133/0,

5-14=-134/0, 6-13=-132/0, 7-12=-138/0,

8-11=-113/0

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.

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



September 16,2025

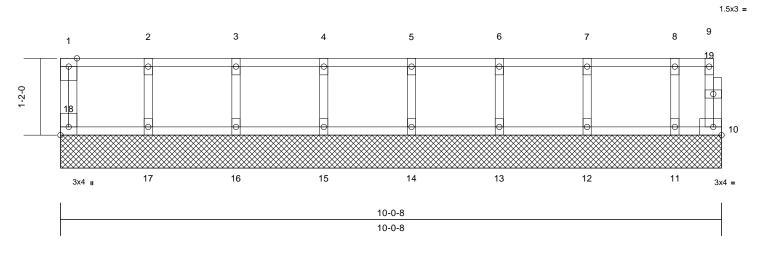


Job	Truss	Truss Type	Qty	Ply	Lot 54 Duncan's Creek	
251278-B	FKW4	Floor Supported Gable	1	1	Job Reference (optional)	176366219

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:54 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1

3x4 II



Scale = 1:17.5

Plate Offsets (X, Y): [18: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	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 44 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) 10=10-0-8, 11=10-0-8, 12=10-0-8,

13=10-0-8, 14=10-0-8, 15=10-0-8, 16=10-0-8, 17=10-0-8, 18=10-0-8

Max Grav 10=15 (LC 1), 11=85 (LC 1),

12=122 (LC 1), 13=116 (LC 1), 14=118 (LC 1), 15=117 (LC 1), 16=117 (LC 1), 17=118 (LC 1),

18=47 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-18=-44/0, 9-10=-10/0, 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

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, 11-12=0/5, 10-11=0/5

WEBS 2-17=-106/0, 3-16=-107/0, 4-15=-106/0,

5-14=-107/0, 6-13=-105/0, 7-12=-111/0,

8-11=-82/0

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.

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



September 16,2025



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

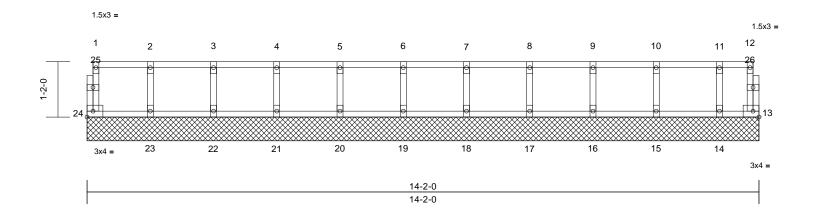
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 54 Duncan's Creek	
251278-B	FKW5	Floor Supported Gable	1	1	Job Reference (optional)	176366220

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Mon Sep 15 13:24:55 ID: JQb1 igK2 ne3CQdqy3 dwnCxyStrD-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the property of the

Page: 1



Scale = 1:24.3

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	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 60 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)

13=14-2-0, 14=14-2-0, 15=14-2-0, 16=14-2-0, 17=14-2-0, 18=14-2-0, 19=14-2-0, 20=14-2-0, 21=14-2-0,

22=14-2-0, 23=14-2-0, 24=14-2-0

13=27 (LC 1), 14=113 (LC 1), Max Grav 15=153 (LC 1), 16=145 (LC 1),

17=147 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=148 (LC 1), 24=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-49/0, 12-13=-21/0, 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,

11-12=-6/0

BOT CHORD 23-24=0/6, 22-23=0/6, 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

WEBS 2-23=-132/0, 3-22=-134/0, 4-21=-133/0, 5-20=-133/0, 6-19=-133/0, 7-18=-133/0, 8-17=-134/0, 9-16=-132/0, 10-15=-138/0,

11-14=-107/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated
- Plates checked for a plus or minus 1 degree rotation about its center.
- 3) 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



September 16,2025





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)



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

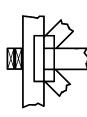
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

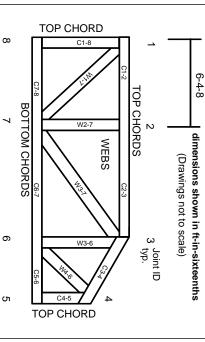
Industry Standards:

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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.