

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25083758R MSM-190

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center (Gastonia, NC).

Pages or sheets covered by this seal: I75737055 thru I75737072

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

North Carolina COA: C-0844



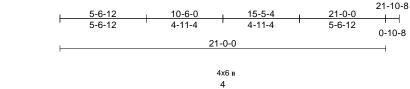
August 19,2025

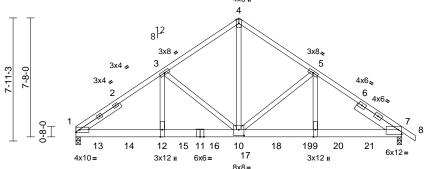
Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	B3GR	Common Girder	1	2	Job Reference (optional)	175737055

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:21 ID:Ai9qHSeGo0epnqmDUG7i0Jz3VfK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





5-6-12	10-6-0	15-5-4	21-0-0
5-6-12	4-11-4	4-11-4	5-6-12

Scale = 1:74.3

Plate Offsets (X, Y): [7:Edge,0-3-8], [10:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.09	10-12	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.18	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 279 lb	FT = 20%

### LUMBER

2x4 SP DSS \*Except\* 4-8:2x4 SP No.2 TOP CHORD

**BOT CHORD** 2x6 SP DSS

**WEBS** 2x4 SP No.3 \*Except\* 10-4:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 3-1-9, Right 2x6 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-7-9 oc purlins.

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

bracing

REACTIONS (size) 1=0-3-8, 7=0-3-8

> 1=-117 (LC 8) Max Horiz

Max Grav 1=6096 (LC 2), 7=5768 (LC 2) (lb) - Maximum Compression/Maximum

Tension

1-3=-8224/0, 3-4=-5573/0, 4-5=-5582/0, TOP CHORD

5-7=-7935/0. 7-8=0/18

BOT CHORD 1-12=0/6603, 10-12=0/6603, 9-10=0/6403,

7-9=0/6403

**WEBS** 3-12=0/3039, 3-10=-2570/0, 4-10=0/5728,

5-10=-2312/0, 5-9=0/2650

### NOTES

**FORCES** 

1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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 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.

- 4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1015 lb down at 1-5-4, 1015 lb down at 3-5-4, 1015 lb down at 5-5-4, 1015 lb down at 6-11-4, 1015 lb down at 8-11-4, 1015 lb down at 10-11-4, 1015 lb down at 12-11-4, 1015 lb down at 14-11-4, and 1015 lb down at 16-11-4, and 1015 lb down at 18-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-51, 4-8=-51, 1-7=-20

Concentrated Loads (lb)

Vert: 12=-896 (B), 13=-896 (B), 14=-896 (B), 15=-896 (B), 16=-896 (B), 17=-896 (B), 18=-896 (B),

19=-896 (B), 20=-896 (B), 21=-896 (B)



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

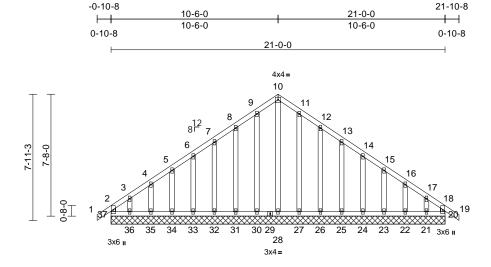
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



ſ	Job	Truss	Truss Type	Qty	Ply	MSM-190	
	25083758R	B1GE	Common Supported Gable	1	1	Job Reference (optional)	175737056

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:21 ID:pfEEyUmT?bRAWchBiQJaZwz3VgT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:72.4

TOP CHORD

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
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	20	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R							1	
BCDL	10.0										Weight: 158 lb	FT = 20%

TCDL BCLL BCDL	10.0 0.0* 10.0	Rep Stress Incr Code	YES IRC2015/TPI2014	WB Matrix-R	0.13	Horz(CT)	0.00	2	20 n	a ı	n/a	We
LUMBER			TOP CHORD	2-37=-127/20,	1-2=0/34, 2-	-3=-98/92,		4)	TCLL: A	SCE 7	7-10	; Pr=
TOP CHORD	2x4 SP No.2			3-4=-77/78, 4-5	5=-73/70, 5-	6=-65/62,		· 1	Plate DC	L=1.1	15);	Pg=2
BOT CHORD	2x4 SP No.2			6-7=-63/67, 7-8	8=-88/97, 8-	9=-116/130,			psf (flat r	oof sr	now:	Lun
WEBS	2x4 SP No.3			9-10=-134/152,	, 10-11=-13	4/152,		(	Category	II; Ex	хр В	; Pai
OTHERS	2x4 SP No.3			11-12=-116/130	0, 12-13=-8	8/97, 13-14=-	-63/67,	5)	This trus	s has	bee	n de
BRACING				14-15=-37/36,	15-16=-40/3	88, 16-17=-42	2/47,	- 1	load of 1	2.0 ps	sf or	1.00

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

Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 20=21-0-0, 21=21-0-0, 22=21-0-0, 23=21-0-0, 24=21-0-0, 25=21-0-0, 26=21-0-0, 27=21-0-0, 28=21-0-0, 30=21-0-0, 31=21-0-0, 32=21-0-0, 33=21-0-0, 34=21-0-0, 35=21-0-0, 36=21-0-0. 37=21-0-0

> Max Horiz 37=-130 (LC 12) Max Uplift 20=-1 (LC 11), 21=-28 (LC 10),

22=-8 (LC 14), 23=-12 (LC 14), 24=-11 (LC 14), 25=-11 (LC 14), 26=-17 (LC 14), 31=-17 (LC 14), 32=-11 (LC 14), 33=-11 (LC 14), 34=-12 (LC 14), 35=-8 (LC 14),

Structural wood sheathing directly applied or

36=-36 (LC 11), 37=-26 (LC 12) 20=128 (LC 29), 21=85 (LC 25), Max Grav 22=114 (LC 29), 23=105 (LC 2), 24=107 (LC 29), 25=107 (LC 2), 26=107 (LC 29), 27=111 (LC 29), 28=121 (LC 14), 30=111 (LC 28),

31=107 (LC 28), 32=107 (LC 2), 33=107 (LC 28), 34=105 (LC 2), 35=114 (LC 28), 36=99 (LC 24), 37=154 (LC 25)

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

17-18=-67/73, 18-19=0/34, 18-20=-113/28

21-0-0

36-37=-67/85, 35-36=-67/85, 34-35=-67/85, BOT CHORD 33-34=-67/85, 32-33=-67/85, 31-32=-67/85, 30-31=-67/85, 28-30=-67/85, 27-28=-67/85, 26-27=-67/85, 25-26=-67/85, 24-25=-67/85, 23-24=-67/85, 22-23=-67/85, 21-22=-67/85, 20-21=-67/85

WEBS 10-28=-126/72, 9-30=-84/22, 8-31=-80/46 7-32=-80/38, 6-33=-80/39, 5-34=-79/39, 4-35=-86/40, 3-36=-82/50, 11-27=-84/22 12-26=-80/46, 13-25=-80/38, 14-24=-80/39, 15-23=-79/39, 16-22=-86/40, 17-21=-85/50

### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 10-6-0, Corner (3) 10-6-0 to 13-6-0, Exterior (2) 13-6-0 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- r=20.0 psf (roof LL: Lum DOL=1.15 =20.0 psf (ground snow); Pf=15.4 um DOL=1.15 Plate DOL=1.15); artially Exp.; Ct=1.10
- designed for greater of min roof live 00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 (||) MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



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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)



ſ	Job	Truss	Truss Type	Qty	Ply	MSM-190	
	25083758R	B1GE	Common Supported Gable	1	1	Job Reference (optional)	175737056

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:21  Page: 2

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 37, 1 lb uplift at joint 20, 17 lb uplift at joint 31, 11 lb uplift at joint 32, 11 lb uplift at joint 33, 12 lb uplift at joint 34, 8 lb uplift at joint 35, 36 lb uplift at joint 36, 17 lb uplift at joint 26, 11 lb uplift at joint 25, 11 lb uplift at joint 24, 12 lb uplift at joint 23, 8 lb uplift at joint 22 and 28 lb uplift at joint 21.

LOAD CASE(S) Standard

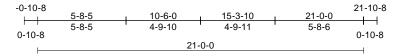


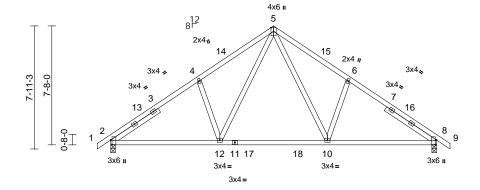


Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	B2	Common	6	1	Job Reference (optional)	175737057

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:21 ID:2fp3QN4ntajUecgBEungcOz3Vg3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







7-0-6 13-11-10 21-0-0 7-0-6 6-11-5 7-0-6

Plate Offsets (X, Y): [2:0-3-9,0-0-15], [8:0-3-9,0-0-15]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.10	10-12	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.15	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 119 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SP No.3

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-11 oc purlins.

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

bracing.

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

Max Horiz 2=118 (LC 13)

Max Uplift 2=-4 (LC 14), 8=-4 (LC 14) Max Grav 2=893 (LC 2), 8=893 (LC 2)

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

Tension

TOP CHORD 1-2=0/14, 2-4=-1141/49, 4-5=-1030/111,

5-6=-1030/110, 6-8=-1140/49, 8-9=0/14

**BOT CHORD** 2-12=0/911, 10-12=0/624, 8-10=0/866 WEBS 4-12=-269/119, 5-12=-29/486, 5-10=-29/486,

6-10=-269/119

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 10-6-0, Exterior (2) 10-6-0 to 13-6-0, Interior (1) 13-6-0 to 21-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 2 and 4 lb uplift at joint 8.

LOAD CASE(S) Standard

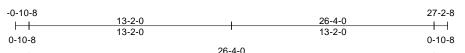


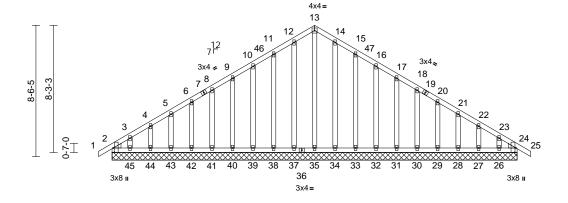
August 19,2025



Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	A1GE	Common Supported Gable	1	1	Job Reference (optional)	175737058

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:18 ID:5fXlbppYMddEAdjC82wHPTz3Vhh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:74.9

Plate Offsets (X, Y): [2:0-3-8,Edge], [24:0-3-8,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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	24	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0	1									Weight: 203 lb	FT = 20%

26-4-0

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

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=26-4-0. 24=26-4-0. 26=26-4-0. 27=26-4-0, 28=26-4-0, 29=26-4-0, 30=26-4-0. 31=26-4-0. 32=26-4-0. 33=26-4-0, 34=26-4-0, 35=26-4-0, 37=26-4-0, 38=26-4-0, 39=26-4-0, 40=26-4-0, 41=26-4-0, 42=26-4-0, 43=26-4-0, 44=26-4-0, 45=26-4-0

Max Horiz 2=128 (LC 15)

Max Uplift 2=-11 (LC 14), 26=-11 (LC 16), 27=-11 (LC 16), 28=-8 (LC 16), 29=-8 (LC 16), 30=-8 (LC 16), 31=-8 (LC 16), 32=-8 (LC 16), 33=-13 (LC 16), 38=-13 (LC 16), 39=-8 (LC 16), 40=-8 (LC 16), 41=-8 (LC 16), 42=-8 (LC 16), 43=-8 (LC 16), 44=-11 (LC 16), 45=-12 (LC 13)

**FORCES** 

30=107 (LC 33), 31=107 (LC 2), 32=107 (LC 2), 33=121 (LC 22), 34=130 (LC 22), 35=107 (LC 16), 37=130 (LC 21), 38=121 (LC 21), 39=107 (LC 2), 40=107 (LC 2), 41=107 (LC 32), 42=107 (LC 32), 43=105 (LC 2), 44=112 (LC 32), 45=95 (LC 28) (lb) - Maximum Compression/Maximum

Max Grav 2=136 (LC 29), 24=121 (LC 2),

26=88 (LC 29), 27=112 (LC 33),

28=105 (LC 2), 29=107 (LC 33),

Tension

TOP CHORD 1-2=0/14, 2-3=-113/105, 3-4=-94/89, 4-5=-87/81, 5-6=-81/74, 6-8=-74/67, 8-9=-68/59 9-10=-76/82 10-11=-97/107 11-12=-121/135, 12-13=-136/153, 13-14=-136/153, 14-15=-121/135,

15-16=-97/107, 16-17=-76/82, 17-18=-54/56, 18-20=-36/30, 20-21=-41/24, 21-22=-47/31, 22-23=-57/48, 23-24=-93/83, 24-25=0/14 2-45=-69/92, 44-45=-69/92, 43-44=-69/92,

**BOT CHORD** 42-43=-69/92, 41-42=-69/92, 40-41=-69/92, 39-40=-69/92, 38-39=-69/92, 37-38=-69/92, 35-37=-69/92, 34-35=-69/92, 33-34=-69/92, 32-33=-69/92, 31-32=-69/92, 30-31=-69/92, 29-30=-69/92, 28-29=-69/92, 27-28=-69/92,

26-27=-69/92, 24-26=-69/92

13-35=-112/60, 12-37=-103/19, 11-38=-95/41, 10-39=-80/35, 9-40=-80/35, 8-41=-80/35, 6-42=-80/35, 5-43=-79/35, 4-44=-84/37, 3-45=-83/47, 14-34=-103/19, 15-33=-95/41, 16-32=-80/35, 17-31=-80/35, 18-30=-80/35, 20-29=-80/35, 21-28=-79/35, 22-27=-84/37,

23-26=-84/48

NOTES

WEBS

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

2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-1-8. Exterior (2) 2-1-8 to 13-2-0. Corner (3) 13-2-0 to 16-2-0, Exterior (2) 16-2-0 to 27-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Page: 1

- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.



ontinued 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	MSM-190	
25083758R	A1GE	Common Supported Gable	1	1	Job Reference (optional)	175737058

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:18  Page: 2

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 13 lb uplift at joint 38, 8 lb uplift at joint 39, 8 lb uplift at joint 40, 8 lb uplift at joint 41, 8 lb uplift at joint 42, 8 lb uplift at joint 43, 11 lb uplift at joint 44, 12 lb uplift at joint 45, 13 lb uplift at joint 33, 8 lb uplift at joint 32, 8 lb uplift at joint 31, 8 lb uplift at joint 30, 8 lb uplift at joint 29, 8 lb uplift at joint 28, 11 lb uplift at joint 27 and 11 lb uplift at ioint 26.

LOAD CASE(S) Standard

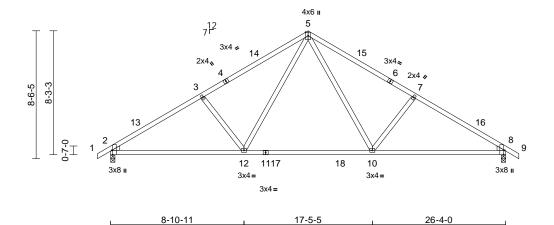


ſ	Job	Truss	Truss Type	Qty	Ply	MSM-190	
	25083758R	A2	Common	5	1	Job Reference (optional)	175737059

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:19 ID:Vh914DR5f6jeysrEq1s0ewz3ViA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

8-10-11





Scale = 1:76.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [8:0-3-8,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	0.68	Vert(LL)	-0.26	10-12	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.34	2-12	>913	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 129 lb	FT = 20%

8-6-11

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-9-8 oc purlins.

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

bracing.

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

Max Horiz 2=128 (LC 15)

Max Uplift 2=-4 (LC 16), 8=-4 (LC 16)

Max Grav 2=1103 (LC 2), 8=1103 (LC 2)

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

Tension

TOP CHORD 1-2=0/14, 2-3=-1596/63, 3-5=-1393/94,

5-7=-1393/94, 7-8=-1596/63, 8-9=0/14

**BOT CHORD** 2-12=0/1351, 10-12=0/883, 8-10=0/1298 WEBS 5-10=0/585, 7-10=-347/128, 5-12=0/585,

3-12=-346/128

### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 13-2-0, Exterior (2) 13-2-0 to 16-2-0. Interior (1) 16-2-0 to 27-2-8 zone: cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 2 and 4 lb uplift at joint 8.

LOAD CASE(S) Standard

8-10-11



August 19,2025

Page: 1

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

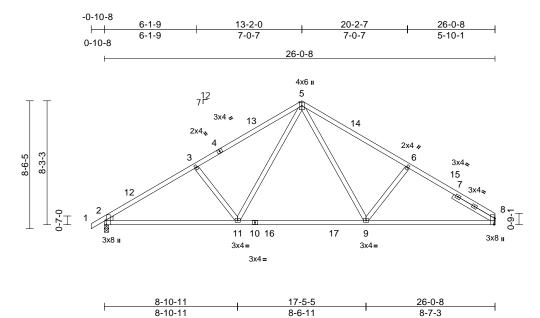
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	A3	Common	3	1	Job Reference (optional)	175737060

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:19 ID:8vmsK3mzrufaEGZTYHsuN7z3Vj2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:76.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.26	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35	9-11	>893	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 131 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

Right 2x4 SP No.3 -- 3-2-15 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-3-8, 8= Mechanical Max Horiz 2=127 (LC 15)

> Max Uplift 2=-4 (LC 16) Max Grav 2=1098 (LC 2), 8=1035 (LC 2)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/14, 2-3=-1588/63, 3-5=-1385/95, 5-6=-1355/99, 6-8=-1565/70

**BOT CHORD** 2-11=0/1341, 9-11=0/875, 8-9=0/1254

WEBS 5-9=0/545, 6-9=-322/128, 5-11=0/587,

3-11=-345/128

### NOTES

**FORCES** 

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 13-2-0, Exterior (2) 13-2-0 to 16-2-0, Interior (1) 16-2-0 to 26-0-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, 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 4 lb uplift at joint 2.

LOAD CASE(S) Standard



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

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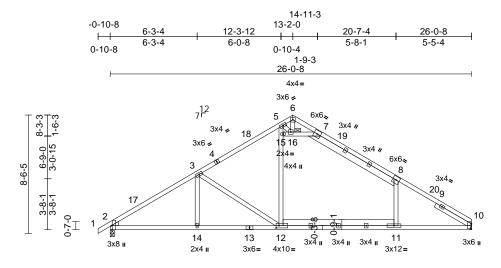
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Ī	Job	Truss	Truss Type	Qty	Ply	MSM-190	
	25083758R	A4	Common	4	1	Job Reference (optional)	175737061

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:20 ID:CNLgINatt5cSGKH1vgfHUfz3Vpl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



12-3-12 6-3-4 10-0-8 20-7-4 26-0-8 2-3-4 6-3-4 3-9-4 8-3-8 5-5-4 Scale = 1:83.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [10:0-4-0,0-0-7], [12:0-2-8,0-2-0]

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	0.91	Vert(LL)	-0.38	10-11	>807	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.70	10-11	>447	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 164 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 6-10:2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 \*Except\* 13-10:2x4 SP DSS,

12-11:2x6 SP No.1

**WEBS** 2x4 SP No.3 \*Except\* 11-8,5-12,15-7:2x4 SP

No.2, 7-8:2x6 SP No.1 WEDGE Left: 2x4 SP No.3

SLIDER Right 2x4 SP No.3 -- 3-0-0 BRACING

TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing.

**JOINTS** 1 Brace at Jt(s): 16

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

Max Horiz 2=127 (LC 15)

Max Uplift 2=-4 (LC 16) Max Grav 2=1098 (LC 2), 10=1035 (LC 2)

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

Tension TOP CHORD

1-2=0/14, 2-3=-1605/34, 3-5=-1213/97, 5-6=-324/48, 6-7=-250/0, 7-8=-1150/88,

8-10=-1308/0

**BOT CHORD** 2-14=0/1277, 12-14=0/1277, 11-12=0/993,

10-11=0/993

8-11=-88/142, 12-15=0/549, 5-15=0/538,

15-16=-298/61, 7-16=-888/135,

6-16=-73/584, 5-16=-890/110, 3-14=0/212,

3-12=-447/43

### NOTES

**WEBS** 

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

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8. Interior (1) 2-1-8 to 13-2-0. Exterior (2) 13-2-0 to 16-2-0, Interior (1) 16-2-0 to 26-0-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 2.

LOAD CASE(S) Standard





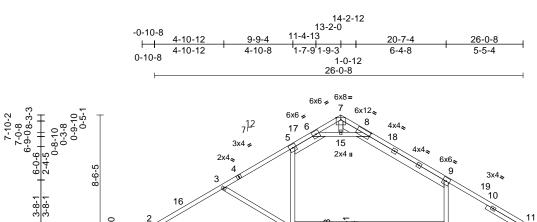
Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	A5	Common	3	1	Job Reference (optional)	175737062

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:20 ID:Bey6xhl4LjPlDgpDyMBWzcz3Vkx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

12

3x8=

3x6 ı



14

4x10=

4x4=

9-9-4 12-0-8 20-7-4 26-0-8 9-9-4 2-3-4 8-6-12 5-5-4

3x4=

3x4 II

3x4 II 3x4

Plate Offsets (X, Y): [2:0-3-8,Edge], [8:0-0-0,0-3-0], [11:0-4-0,0-0-7], [14:0-2-4,0-2-0]

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	0.97	Vert(LL)	-0.46	11-12	>682	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.68	11-12	>457	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 171 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP DSS \*Except\* 7-11:2x4 SP No.1,

1-4:2x4 SP No.2

BOT CHORD 2x4 SP No.1 \*Except\* 14-12:2x6 SP No.1 WEBS 2x4 SP No.2 \*Except\* 6-5,8-9,7-8:2x6 SP

No.1, 14-3,15-7:2x4 SP No.3

WEDGE Left: 2x4 SP No.3

SLIDER Right 2x4 SP No.3 -- 3-0-0

BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 2=0-3-8. 11= Mechanical (size)

Max Horiz 2=127 (LC 15) Max Uplift 2=-4 (LC 16)

Max Grav 2=1098 (LC 2), 11=1035 (LC 2) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=0/14, 2-3=-1613/66, 3-5=-1356/63,

5-6=-994/114, 6-7=-1/660, 7-8=-8/382,

8-9=-1209/91, 9-11=-1417/0 **BOT CHORD** 

2-14=0/1310, 12-14=0/1085, 11-12=0/1085 5-14=0/557, 9-12=0/278, 6-15=-1784/128,

8-15=-1793/128, 3-14=-344/76, 7-15=-14/206

### **WEBS** NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 13-2-0, Exterior (2) 13-2-0 to 16-2-0, Interior (1) 16-2-0 to 26-0-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 2.

LOAD CASE(S) Standard

3x8 ı



Page: 1

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

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Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	A6GE	Common Supported Gable	1	1	Job Reference (optional)	175737063

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:20 ID:H1DKTO96mE8GXxsanwQsXNz3VhF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

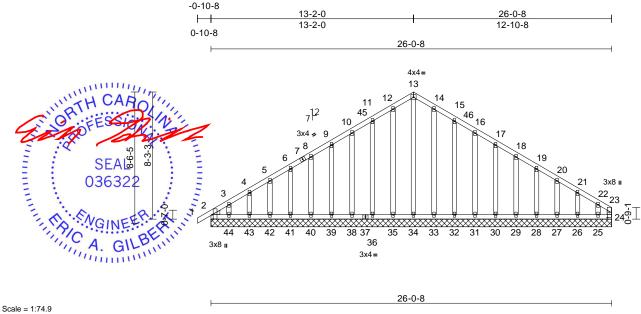


Plate Offsets (X	Y۱٠	[2:0-3-8 Edge]	[23:0-4-1 0-1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	24	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0	1		1							Weight: 201 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 2x4 SP No.2 **BOT CHORD WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

**REACTIONS** (size)

2=26-0-8, 24=26-0-8, 25=26-0-8, 26=26-0-8, 27=26-0-8, 28=26-0-8, 29=26-0-8, 30=26-0-8, 31=26-0-8, 32=26-0-8, 33=26-0-8, 34=26-0-8, 35=26-0-8, 36=26-0-8, 38=26-0-8, 39=26-0-8, 40=26-0-8, 41=26-0-8 42=26-0-8, 43=26-0-8, 44=26-0-8 Max Horiz 2=123 (LC 15)

Max Uplift 2=-13 (LC 14), 24=-33 (LC 15), 25=-54 (LC 16), 26=-4 (LC 16), 27=-9 (LC 16), 28=-8 (LC 16), 29=-8 (LC 16), 30=-8 (LC 16), 31=-8 (LC 16), 32=-13 (LC 16), 36=-13 (LC 16), 38=-8 (LC 16), 39=-8 (LC 16), 40=-8 (LC 16), 41=-8 (LC 16), 42=-8 (LC 16), 43=-11 (LC 16), 44=-12 (LC 13) Max Grav 2=138 (LC 29), 24=72 (LC 16),

25=107 (LC 29), 26=110 (LC 2), 27=106 (LC 33), 28=107 (LC 2), 29=107 (LC 33), 30=107 (LC 2), 31=107 (LC 2), 32=121 (LC 22), 33=130 (LC 22), 34=109 (LC 16), 35=128 (LC 21), 36=115 (LC 21), 38=107 (LC 2), 39=107 (LC 2), 40=107 (LC 32), 41=107 (LC 32), 42=105 (LC 2), 43=112 (LC 32), 44=95 (LC 28)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/14, 2-3=-117/109, 3-4=-98/93, 4-5=-91/85, 5-6=-84/78, 6-8=-77/70, 8-9=-71/63 9-10=-78/84 10-11=-99/109 11-12=-123/137, 12-13=-138/155, 13-14=-138/155. 14-15=-123/137. 15-16=-99/109, 16-17=-78/84, 17-18=-57/58, 18-19=-35/32, 19-20=-38/22, 20-21=-43/28, 21-22=-53/43, 22-23=-85/69, 23-24=-57/36

2-44=-50/65, 43-44=-50/65, 42-43=-50/65, 41-42=-50/65, 40-41=-50/65, 39-40=-50/65 38-39=-50/65, 36-38=-50/65, 35-36=-50/65, 34-35=-50/65, 33-34=-50/65, 32-33=-50/65, 31-32=-50/65, 30-31=-50/65, 29-30=-50/65, 28-29=-50/65, 27-28=-50/65, 26-27=-50/65,

25-26=-50/65, 24-25=-50/65

13-34=-114/62, 12-35=-101/18, 11-36=-88/41, 10-38=-80/35, 9-39=-80/35, 8-40=-80/35, 6-41=-80/35, 5-42=-79/35, 4-43=-84/37, 3-44=-83/47, 14-33=-104/18, 15-32=-95/41, 16-31=-80/35, 17-30=-80/35, 18-29=-80/35, 19-28=-80/35, 20-27=-80/35, 21-26=-83/34, 22-25=-79/56

### NOTES

WEBS

**FORCES** 

**BOT CHORD** 

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-1-8. Exterior (2) 2-1-8 to 13-2-0. Corner (3) 13-2-0 to 16-2-0, Exterior (2) 16-2-0 to 25-10-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

August 19,2025



Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	A6GE	Common Supported Gable	1	1	Job Reference (optional)	175737063

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:20 ID:H1DKTO96mE8GXxsanwQsXNz3VhF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 2

- All plates are 2x4 (||) MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 2, 33 lb aplift at joint 24, 13 lb aplift at joint 36, 8 lb uplift at joint 38, 8 lb uplift at joint 38, 8 lb uplift at joint 40, 8 lb uplift at joint 40, 8 lb uplift at joint 43, 12 lb uplift at joint 44, 13 lb uplift at joint 32, 8 lb uplift at joint 31, 8 lb uplift at joint 30, 8 lb uplift at joint 29, 8 lb uplift at joint 28, 9 lb uplift at joint 27, 4 lb uplift at joint 26 and 54 lb uplift at joint 25.

LOAD CASE(S) Standard

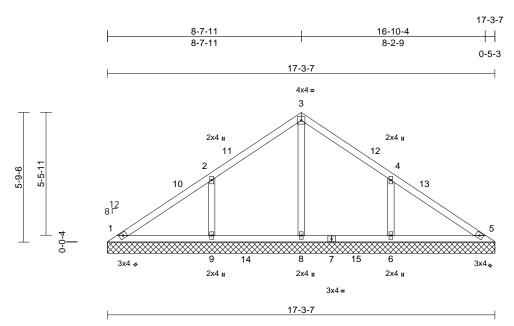


August 19,2025



Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	V1	Valley	1	1	Job Reference (optional)	175737064

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:22 ID:kBnI41ZF6nUbeAiqMz82yRz3Vpm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.4

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 70 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=17-3-7, 5=17-3-7, 6=17-3-7,

8=17-3-7, 9=17-3-7 Max Horiz 1=-85 (LC 12)

Max Uplift 6=-44 (LC 14), 9=-44 (LC 14) 1=150 (LC 2), 5=150 (LC 2), 6=401 Max Grav

(LC 24), 8=336 (LC 23), 9=401 (LC

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

Tension

TOP CHORD 1-2=-107/81, 2-3=-112/87, 3-4=-112/87, 4-5=-84/59

> 1-9=-31/50, 8-9=-31/50, 6-8=-31/50, 5-6=-31/50

WFBS 3-8=-163/0, 2-9=-292/113, 4-6=-292/113

### NOTES

**BOT CHORD** 

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-5-12 to 3-5-12, Interior (1) 3-5-12 to 8-8-1, Exterior (2) 8-8-1 to 11-8-1, Interior (1) 11-8-1 to 16-10-7 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 9 and 44 lb uplift at joint 6.

LOAD CASE(S) Standard



Page: 1

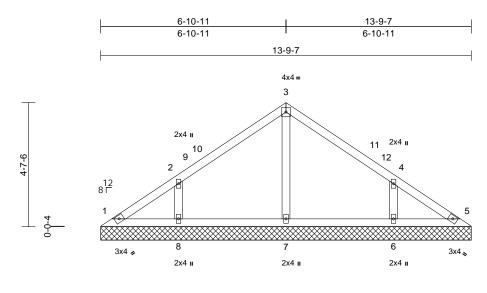
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	V2	Valley	1	1	Job Reference (optional)	175737065

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:23 ID:kBnI41ZF6nUbeAiqMz82yRz3Vpm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:42.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 54 lb	FT = 20%

13-9-7

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=13-9-7, 5=13-9-7, 6=13-9-7,

7=13-9-7, 8=13-9-7

Max Horiz 1=-67 (LC 12) Max Uplift 6=-37 (LC 14), 8=-37 (LC 14)

Max Grav 1=86 (LC 24), 5=80 (LC 2), 6=310 (LC 28), 7=264 (LC 2), 8=310 (LC

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

Tension

TOP CHORD 1-2=-83/55, 2-3=-111/70, 3-4=-111/70, 4-5=-65/33

**BOT CHORD** 1-8=-16/45, 7-8=-16/45, 6-7=-16/45,

5-6=-16/45 WFBS 3-7=-180/0, 2-8=-239/102, 4-6=-239/102

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-5-12 to 3-5-12, Interior (1) 3-5-12 to 6-11-1, Exterior (2) 6-11-1 to 9-11-1, Interior (1) 9-11-1 to 13-4-7 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15): Category II; Exp B; Partially Exp.; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 8 and 37 lb uplift at joint 6.

LOAD CASE(S) Standard



Page: 1

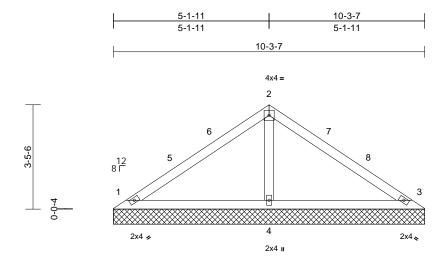
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	V3	Valley	1	1	Job Reference (optional)	175737066

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:23 ID: kBnI41ZF6nUbeAiqMz82yRz3Vpm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:38.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0	1		1		l					Weight: 36 lb	FT = 20%

10-3-7

_UMBER	
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

### **BRACING**

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=10-3-7, 3=10-3-7, 4=10-3-7

Max Horiz 1=49 (LC 13)

Max Uplift 1=-8 (LC 14), 3=-8 (LC 14)

Max Grav 1=185 (LC 2), 3=185 (LC 2), 4=381

(LC 2)

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

Tension

TOP CHORD 1-2=-127/48, 2-3=-127/48

**BOT CHORD** 1-4=-1/51, 3-4=-1/51

**WEBS** 2-4=-242/51

### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-5-12 to 3-5-12, Interior (1) 3-5-12 to 5-2-1, Exterior (2) 5-2-1 to 8-2-1, Interior (1) 8-2-1 to 9-10-7 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 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 7) chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 8 lb uplift at joint 3.

LOAD CASE(S) Standard



August 19,2025

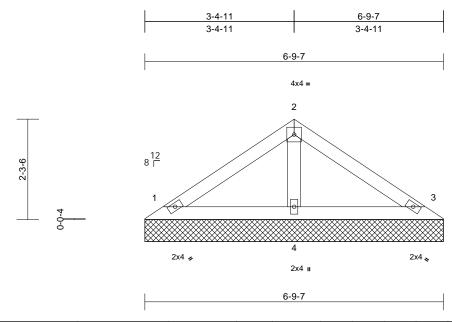
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Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	V4	Valley	1	1	Job Reference (optional)	175737067

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:23 ID:jROkjLHSaPHubWF1OfgHROz3Vky-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:26.2

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0			1							Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=6-9-7, 3=6-9-7, 4=6-9-7

Max Horiz 1=-31 (LC 12) Max Uplift 1=-10 (LC 14), 3=-10 (LC 14)

Max Grav 1=127 (LC 2), 3=127 (LC 2), 4=217

(LC 2)

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

Tension

TOP CHORD 1-2=-69/29, 2-3=-69/29 **BOT CHORD** 1-4=-2/29, 3-4=-2/29 **WEBS** 2-4=-143/36

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 10 lb uplift at joint 3.

LOAD CASE(S) Standard

August 19,2025

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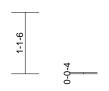
Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	V5	Valley	1	1	Job Reference (optional)	175737068

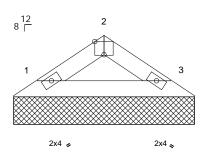
Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:23 ID: iWbS46de1jWy9hB1wYcTU5z3VfL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fd



3-3-7

3x4 =





3-3-7

Scale = 1:20.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 9 lb	FT = 20%

### LUMBER

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

### BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-3 oc purlins.

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

bracing.

REACTIONS (size) 1=3-3-7, 3=3-3-7 Max Horiz 1=-12 (LC 12)

Max Grav 1=95 (LC 2), 3=95 (LC 2)

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

Tension

TOP CHORD 1-2=-80/26, 2-3=-80/26

BOT CHORD 1-3=-6/54

### NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 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.

8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

LOAD CASE(S) Standard



August 19,2025

Page: 1

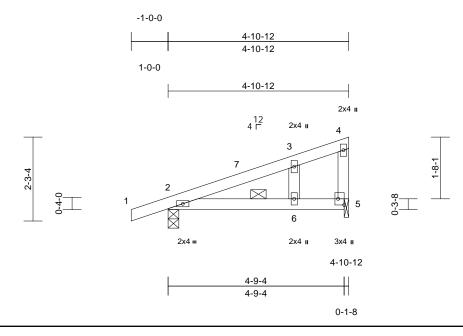
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	MSM-190	
25083758R	E1GE	Monopitch Supported Gable	1	1	Job Reference (optional)	175737069

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:22 ID:0IC5WB9gMQO4H2qEJ0t0bgz3VdN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.2

Plate Offsets	(X,	Y):	[5:Edge,0-2-0
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.03	2-6	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	2-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 20 lb	FT = 20%

### LUMBER

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

### BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-12 oc purlins, except end verticals.

**BOT CHORD** 4-0-0 oc bracing.

REACTIONS (size) 2=0-3-8 5=0-1-8

Max Horiz 2=47 (LC 16)

Max Uplift 2=-55 (LC 16), 5=-36 (LC 16) Max Grav 2=261 (LC 2), 5=176 (LC 2)

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

Tension

TOP CHORD 1-2=0/17, 2-3=-114/27, 3-4=-67/35,

4-5=-77/66 **BOT CHORD** 2-6=-59/70, 5-6=-59/70

WEBS 3-6=-60/29

### **NOTES**

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 4-9-0 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 36 lb uplift at joint 5.

LOAD CASE(S) Standard



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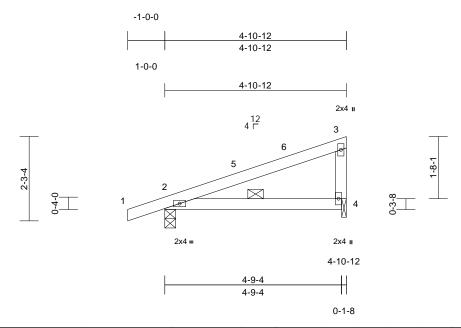
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	MSM-190	
25083758R	E2	Monopitch	4	1	Job Reference (optional)	175737070

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:22 ID:GqtdFKIdDJEkYU?JpIZ3OUz3Vbv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.04	2-4	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.05	2-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 19 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals.

BOT CHORD 4-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 4=0-1-8

Max Horiz 2=47 (LC 16)

Max Uplift 2=-55 (LC 16), 4=-36 (LC 16)

Max Grav 2=261 (LC 2), 4=176 (LC 2) (lb) - Maximum Compression/Maximum

**FORCES** 

Tension

TOP CHORD 1-2=0/17, 2-3=-49/34, 3-4=-130/80

**BOT CHORD** 2-4=0/0

### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 4-9-0 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 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 at joint(s) 4.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 36 lb uplift at joint 4.

LOAD CASE(S) Standard



August 19,2025

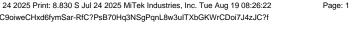
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

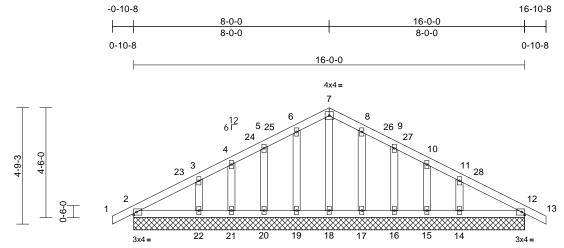
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Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	D1GE	Common Supported Gable	1	1	Job Reference (optional)	175737071

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:22 ID:GkzOokkz1?C9oiweCHxd6fymSar-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





16-0-0 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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0	1									Weight: 87 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 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)

2=16-0-0, 12=16-0-0, 14=16-0-0, 15=16-0-0, 16=16-0-0, 17=16-0-0, 18=16-0-0, 19=16-0-0, 20=16-0-0,

21=16-0-0, 22=16-0-0

Max Horiz 2=-57 (LC 14)

Max Uplift 2=-14 (LC 16), 12=-14 (LC 16), 14=-6 (LC 16), 15=-6 (LC 16),

16=-7 (LC 16), 17=-2 (LC 16), 19=-2 (LC 16), 20=-7 (LC 16), 21=-6 (LC 16), 22=-6 (LC 16)

Max Grav 2=156 (LC 2), 12=156 (LC 2), 14=197 (LC 33), 15=70 (LC 2)

16=114 (LC 33), 17=115 (LC 22), 18=93 (LC 2), 19=115 (LC 21), 20=114 (LC 32), 21=70 (LC 2),

22=197 (LC 32)

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

Tension

TOP CHORD 1-2=0/14. 2-3=-68/55. 3-4=-49/54.

4-5=-38/70. 5-6=-35/98. 6-7=-43/120. 7-8=-43/121, 8-9=-35/99, 9-10=-25/71

10-11=-35/55, 11-12=-50/36, 12-13=0/14 **BOT CHORD** 2-22=-15/64, 21-22=-15/64, 20-21=-15/64,

19-20=-15/64, 18-19=-15/64, 17-18=-15/64, 16-17=-15/64, 15-16=-15/64, 14-15=-15/64,

12-14=-15/64

**WEBS** 7-18=-66/0, 6-19=-90/70, 5-20=-84/70,

4-21=-57/28, 3-22=-140/100, 8-17=-90/70, 9-16=-84/70, 10-15=-57/28, 11-14=-140/100

### **NOTES**

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 8-0-0, Corner (3) 8-0-0 to 11-0-0, Exterior (2) 11-0-0 to 16-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 6) load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 2, 14 lb uplift at joint 12, 2 lb uplift at joint 19, 7 lb uplift at joint 20, 6 lb uplift at joint 21, 6 lb uplift at joint 22, 2 lb uplift at joint 17, 7 lb uplift at joint 16, 6 lb uplift at joint 15 and 6 lb uplift at joint 14.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

LOAD CASE(S) Standard



August 19,2025

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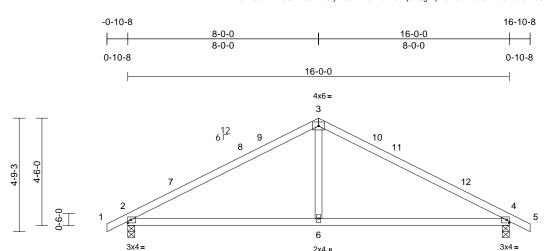
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Job	Truss	Truss Type	Qty	Ply	MSM-190	
25083758R	D2	Common	2	1	Job Reference (optional)	175737072

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 08:26:22 ID:GkzOokkz1?C9oiweCHxd6fymSar-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



8-0-0 16-0-0 8-0-0 8-0-0

Scale = 1:48.3

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	0.78	Vert(LL)	-0.09	2-6	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.20	2-6	>956	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0	ļ		1							Weight: 60 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

4-0-8 oc purlins.

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

bracing.

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

Max Horiz 2=-57 (LC 14) Max Uplift 2=-11 (LC 16), 4=-11 (LC 16)

Max Grav 2=690 (LC 2), 4=690 (LC 2)

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

Tension

1-2=0/14, 2-3=-877/58, 3-4=-877/58, TOP CHORD 4-5=0/14

2-6=0/681, 4-6=0/681 BOT CHORD

**WEBS** 3-6=0/382

### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 8-0-0, Exterior (2) 8-0-0 to 11-0-0, Interior (1) 11-0-0 to 16-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lum DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2 and 11 lb uplift at joint 4.

LOAD CASE(S) Standard



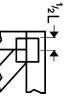
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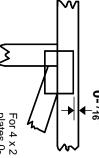


### Symbols

## 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

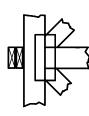
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## 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**



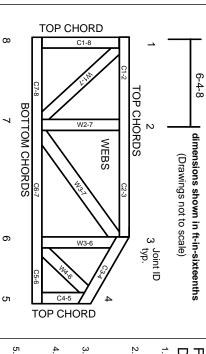
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### 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

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## 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

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- 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.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- 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.