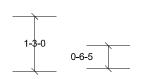
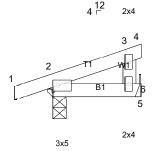
Job	Truss	Truss Type	Qty	Ply	Jefferson
XXXXXXX	T2	Monopitch	6	1	Job Reference (optional)

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Structural wood sheathing directly applied or 2-0-0 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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

except end verticals.

Installation guide.

One H2.5A

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	0.06	Vert(LL)	0.00	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 8 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

LUMBER TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3

2=117/0-3-8, (min. 0-1-8), 5=59/ Mechanical, (min. 0-1-8) REACTIONS (lb/size)

Max Horiz 2=27 (LC 11)

Max Uplift 2=-23 (LC 11), 5=-4 (LC 15)

Max Grav 2=153 (LC 22), 5=74 (LC 22)

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

FORCES NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design. 3)
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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 5) 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 5.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Jefferson
xxxxxxx	T2GE	Monopitch Supported Gable	1	1	Job Reference (optional)

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Structural wood sheathing directly applied or 2-0-0 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

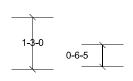
Rigid ceiling directly applied or 10-0-0 oc bracing.

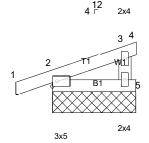
except end verticals.

Installation guide.

Page: 1









1-8-12 1-8-12 0-3-4

Scale = 1:27.6

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
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 8 lb	FT = 20%

LUMBERBRACINGTOP CHORD2x4 SP No.2TOP CHORD

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 BOT CHORD

REACTIONS All bearings 2-0-0.

(lb) - Max Horiz 2=28 (LC 11), 6=28 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 5, 6 Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 5, 6

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

FORCES NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- * 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.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 10) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- 11) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

-	Job	Truss	Truss Type	Qty	Ply	Jefferson
	xxxxxxx	Т3	Monopitch	4	1	Job Reference (optional)

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

installed during truss erection, in accordance with Stabilizer

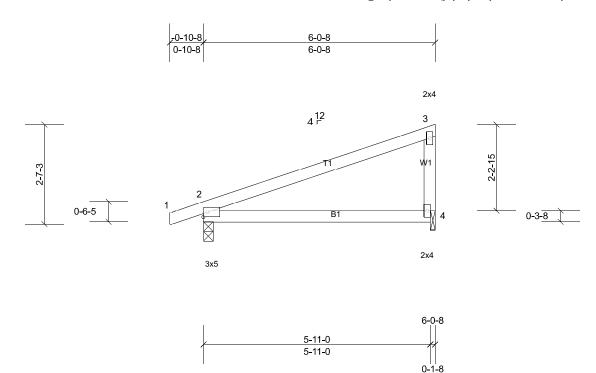
MiTek recommends that Stabilizers and required cross bracing be

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

except end verticals.

Installation guide.

Page: 1



Scale = 1:30.1

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	0.66	Vert(LL)	0.19	4-7	>374	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	0.15	4-7	>485	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 23 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

LUMBER

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

2x4 SP No.3

REACTIONS (lb/size) 2=243/0-3-0, (min. 0-1-8), 4=197/0-1-8, (min. 0-1-8)

Max Horiz 2=61 (LC 11)

Max Uplift 2=-69 (LC 11), 4=-65 (LC 11)

Max Grav 2=308 (LC 22), 4=266 (LC 22)

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

FORCES NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-3 to 2-1-13, Interior (1) 2-1-13 to 5-10-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; 2) Ce=0.9; Cs=1.00; Ct=1.10
- 3) 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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 5)
- 6) 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9)

Job	Truss	Truss Type	Qty	Ply	Jefferson
XXXXXXX	T3GE	Monopitch Supported Gable	1	1	Job Reference (optional)

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

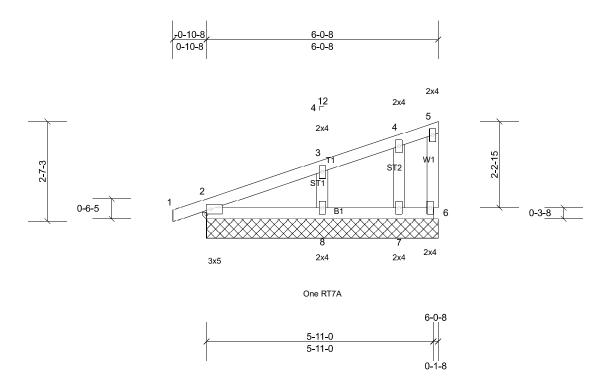
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

except end verticals.

Installation guide.

Page: 1



Scale = 1:30.1

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

 LUMBER

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

REACTIONS All bearings 6-0-8.

(lb) - Max Horiz 2=61 (LC 11), 9=61 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 7, 8, 9

Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 7, 9 except 8=281

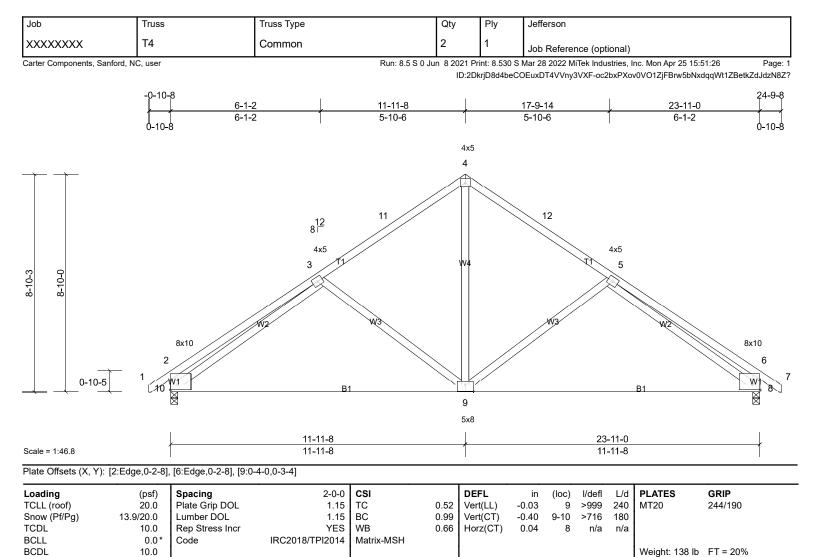
(LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-8=-204/251

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-3 to 2-1-13, Exterior(2N) 2-1-13 to 5-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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.
- 9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6, 8, and 7. This connection is for uplift only and does not consider lateral forces.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



LUMBER

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

WFBS 2x4 SP No.2 *Except* W1:2x4 SP No.3

REACTIONS (lb/size) 8=847/0-3-8, (min. 0-1-8), 10=847/0-3-8, (min. 0-1-8)

Max Horiz 10=-160 (LC 11) Max Grav 8=1004 (LC 2), 10=1004 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD

2-3=-547/76, 3-11=-947/129, 4-11=-839/149, 4-12=-839/149, 5-12=-947/129, 5-6=-547/76, 2-10=-479/110, 6-8=-479/110 9-10=-39/930, 8-9=-42/921

BOT CHORD WEBS

4-9=-36/601, 5-9=-309/169, 3-9=-308/169, 3-10=-687/86, 5-8=-687/86

NOTES

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 2) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 11-11-8, Exterior(2R) 11-11-8 to 14-11-8, Interior (1) 14-11-8 to 24-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

BRACING

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-5-0 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

Rigid ceiling directly applied or 2-2-0 oc bracing

except end verticals.

Installation guide.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; 3)
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 5) 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.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Jefferson
XXXXXXX	T4GE	Common Supported Gable	1	1	Job Reference (optional)

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FT = 20%

Weight: 62 lb

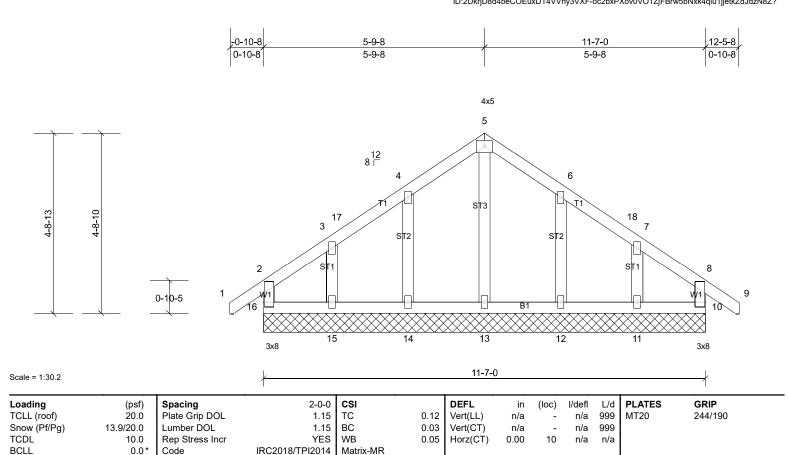
Structural wood sheathing directly applied or 6-0-0 oc purlins,

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

except end verticals.

Installation guide



LUMBERTOP CHORD 2x4 SP No.2

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

OTHERS 2x4 SP No.3

REACTIONS All bearings 11-7-0.

(lb) - Max Horiz 16=83 (LC 12)

10.0

Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12, 14, 15, 16 Max Grav All reactions 250 (lb) or less at joint(s) 10, 11, 12, 13, 14, 15, 16

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

BCDL

-) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-0 to 2-2-0, Exterior(2N) 2-2-0 to 5-9-8, Corner(3R) 5-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 12-5-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

BRACING

TOP CHORD

BOT CHORD

- 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.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) * 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.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 10. This connection is for uplift only and does not consider lateral forces.
- 12) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14, 15, 12, and 11. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job Truss Truss Type Qty Ply Jefferson T4GR XXXXXXX Common Girder 3 Job Reference (optional)

Carter Components, Sanford, NC, user

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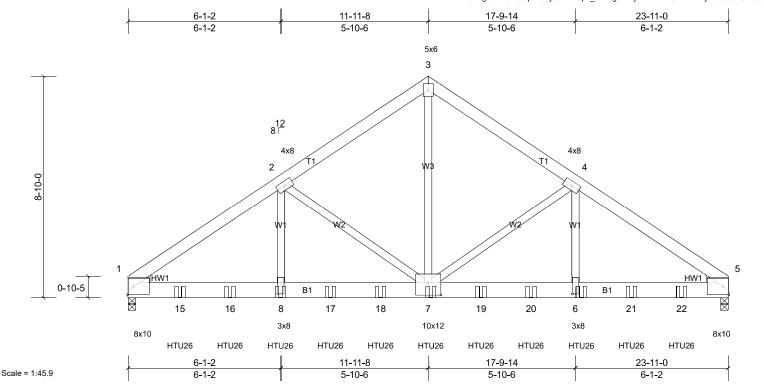


Plate Offsets (X, Y): [6:0-5-8,0-1-8], [7:0-6-0,0-6-0], [8:0-5-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.11	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.22	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.05	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 560 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x8 SP 2400F 2.0E **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WFBS 2x4 SP No.2 *Except* W1:2x4 SP No.3

WEDGE Left: 2x4 SP No 3 Right: 2x4 SP No.3

REACTIONS (lb/size) 1=8043/0-3-8, (min. 0-2-15), 5=8135/0-3-8, (min. 0-2-15)

Max Horiz 1=-150 (LC 5)

Max Grav 1=10584 (LC 20), 5=10708 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-14837/0, 2-3=-10497/0, 3-4=-10497/0, 4-5=-14836/0

BOT CHORD 1-15=0/12327, 15-16=0/12327, 8-16=0/12327, 8-17=0/12327, 17-18=0/12327, 7-18=0/12327, 7-19=0/12221,

19-20=0/12221, 6-20=0/12221, 6-21=0/12221, 21-22=0/12221, 5-22=0/12221

WEBS 2-8=0/4846, 2-7=-4441/0, 3-7=0/11131, 4-7=-4441/0, 4-6=0/4844

NOTES

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 - 4 rows staggered at 0-9-0 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 2) distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design. 3)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate 4) grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- * 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
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 22-0-12 to connect truss(es) T5A (1 ply 2x6 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber. 9)

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 1) Uniform Loads (lb/ft)

Vert: 1-3=-48, 3-5=-48, 9-12=-20

Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	Jefferson
xxxxxxx	T4GR	Common Girder	1	3	Job Reference (optional)

Run: 8.5 S 0 Jun 8 2021 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Mon Apr 25 15:51:27

Page: 2 ID:aliu3hLgJWfwJi709qNF99y3VX?-Gpb_8lYRgJdFejlRlZRK7aUsiE?KmyXn5OJBr3zN8Z_

Vert: 8=-1324, 7=-1324, 6=-1324, 15=-1324, 16=-1324, 17=-1324, 18=-1324, 19=-1324, 20=-1324, 21=-1324, 22=-1324



Run: 8.5 S 0 Jun 8 2021 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Mon Apr 25 15:51:27 ID:tM56zGDOgROL69M5ZjBvl2y3VX9-Gpb_8lYRgJdFejIRlZRK7aUoFEvnm7Un5OJBr3zN8Z_

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

6-13

MiTek recommends that Stabilizers and required cross bracing be

installed during truss erection, in accordance with Stabilizer

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

except end verticals.

1 Brace at Jt(s): 20, 21, 23, 24,

1 Row at midpt

Installation guide

Page: 1

11-11-8 17-9-14 23-11-0 6-1-2 5-10-6 5-10-6 6-1-2

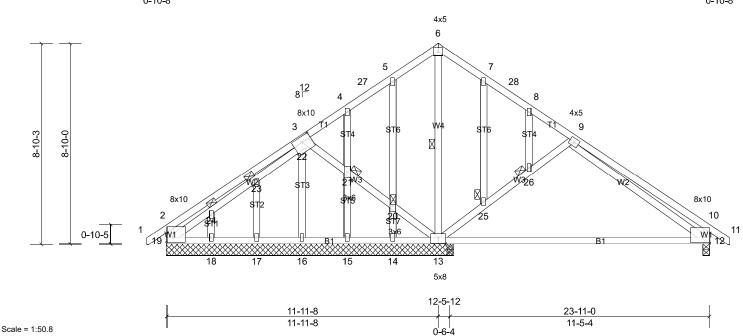


Plate Offsets (X, Y): [2:Edge,0-2-8], [3:0-5-0,0-2-12], [10:Edge,0-2-12], [13:0-4-0,0-3-0]

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	0.54	Vert(LL)	0.00	12-13	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.43	12-13	>329	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 180 lb	FT = 20%

BOT CHORD

WFBS

JOINTS

LUMBER **BRACING** TOP CHORD

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

WFBS 2x4 SP No.2 *Except* W1:2x4 SP No.3 **OTHERS**

2x4 SP No.3 *Except* ST6:2x4 SP No.2

REACTIONS All bearings 12-7-8. except 12=0-3-8

(lb) - Max Horiz 19=160 (LC 12)

Max Uplift All uplift 100 (lb) or less at joint(s) 12, 19 except 14=-171 (LC

Max Grav All reactions 250 (lb) or less at joint(s) 14, 15, 16, 17, 18 except

12=509 (LC 2), 13=841 (LC 2), 19=317 (LC 31)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-294/167, 9-10=-505/67, 2-19=-343/162, 10-12=-451/106 TOP CHORD

BOT CHORD 12-13=0/278 **WEBS** 13-25=-389/184, 25-26=-350/163, 9-26=-353/164

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 2) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 11-11-8, Exterior(2R) 11-11-8 to 14-11-8, Interior (1) 14-11-8 to 24-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 3) qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated. 6) Gable studs spaced at 2-0-0 oc
- * 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 8) any other members
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19 and 12. This connection is for uplift only and does not consider lateral forces.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)

Job	Truss	Truss Type	Qty	Ply	Jefferson
xxxxxxx	T5	Common	5	1	Job Reference (optional)

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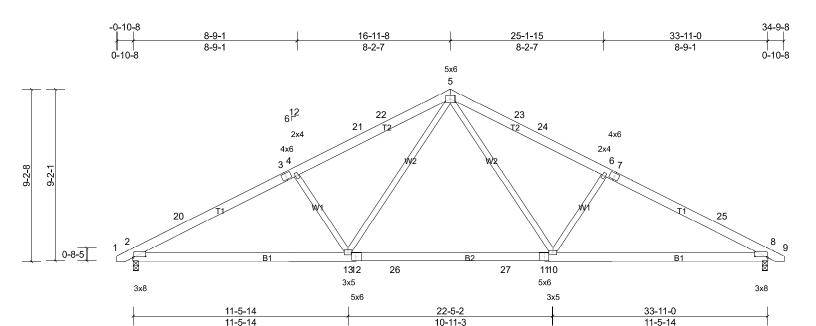
Structural wood sheathing directly applied or 4-4-14 oc purlins.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

Installation guide.

Page: 1



Scale = 1:61.6

Plate Offsets (X, Y): [2:0-8-4,0-0-15], [8:0-8-4,0-0-15], [11:0-2-10,0-2-8], [12:0-2-10,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.19	10-13	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.30	10-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 217 lb	FT = 20%

BOT CHORD

LUMBER **BRACING** TOP CHORD 2x6 SP No.2 TOP CHORD

2x6 SP No.2 **BOT CHORD** WFBS 2x4 SP No.2 *Except* W1:2x4 SP No.3

REACTIONS (lb/size) 2=1180/0-3-8, (min. 0-1-13), 8=1180/0-3-8, (min. 0-1-13)

Max Horiz 2=-90 (LC 13)

Max Grav 2=1519 (LC 3), 8=1519 (LC 3)

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **FORCES**

2-20=-2530/209, 3-20=-2452/246, 3-4=-2349/248, 4-21=-2308/249, 21-22=-2207/253, 5-22=-2198/274, 5-23=-2198/274, TOP CHORD

23-24=-2207/253, 6-24=-2308/249, 6-7=-2349/248, 7-25=-2452/246, 8-25=-2530/209

BOT CHORD 2-13=-123/2227, 12-13=0/1481, 12-26=0/1481, 26-27=0/1481, 11-27=0/1481, 10-11=0/1481, 8-10=-122/2193

5-10=-41/966, 6-10=-505/199, 5-13=-41/966, 4-13=-505/199 **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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 2) -0-7-14 to 2-8-14, Interior (1) 2-8-14 to 16-11-8, Exterior(2R) 16-11-8 to 20-4-3, Interior (1) 20-4-3 to 34-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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 6) any other members, with BCDL = 10.0psf.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 3-8-4 oc purlins.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

6-0-0 oc bracing: 11-15

Installation guide.

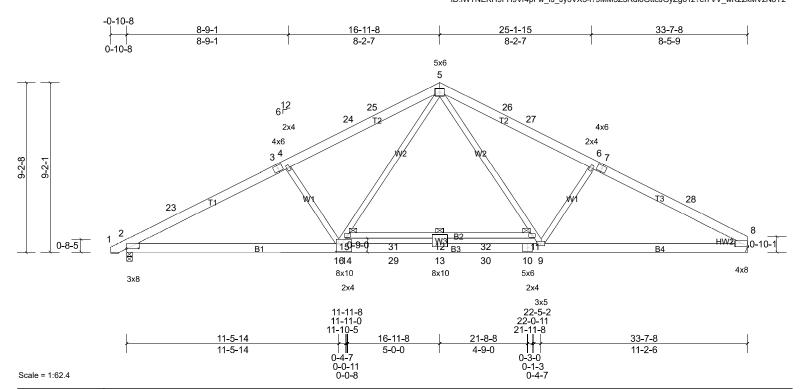


Plate Offsets (X, Y): [2:0-8-0,0-0-7], [8:Edge,0-0-7], [14:0-1-12,0-5-4]

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	0.54	Vert(LL)	-0.28	13	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.56	13	>714	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 230 lb	FT = 20%

BOT CHORD

LUMBER **BRACING** TOP CHORD 2x6 SP No.2 TOP CHORD

2x6 SP 2400F 2.0E *Except* B2:2x4 SP No.2 **BOT CHORD** WFBS 2x4 SP No.3 *Except* W2:2x4 SP No.2

Right: 2x4 SP No.3 WFDGF

REACTIONS (lb/size) 2=1372/0-3-8, (min. 0-1-8), 8=1344/ Mechanical, (min. 0-1-8)

Max Horiz 2=92 (LC 12)

Max Grav 2=1815 (LC 3), 8=1788 (LC 3)

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **FORCES**

2-23=-3213/0, 3-23=-3122/0, 3-4=-3033/0, 4-24=-2995/0, 24-25=-2899/0, 5-25=-2884/0, 5-26=-2826/0, 26-27=-2844/0,

6-27=-2937/0, 6-7=-2970/0, 7-28=-3045/0, 8-28=-3151/0

BOT CHORD 2-16=0/2823, 14-16=0/2113, 14-29=0/2113, 13-29=0/2113, 13-30=0/2113, 10-30=0/2113, 9-10=0/2113, 8-9=0/2723 5-11=0/1261, 9-11=0/1060, 6-9=-451/218, 15-16=0/1148, 5-15=0/1353, 4-16=-479/216, 12-13=-276/0

WEBS

TOP CHORD

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 2) -0-7-14 to 2-8-8, Interior (1) 2-8-8 to 16-11-8, Exterior(2R) 16-11-8 to 20-3-14, Interior (1) 20-3-14 to 33-7-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; 3) Ce=0.9; Cs=1.00; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 5)
- 6) 200.0lb AC unit load placed on the bottom chord, 16-11-8 from left end, supported at two points, 5-0-0 apart.
- * 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
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9)

Γ	Job	Truss	Truss Type	Qty	Ply	Jefferson
	xxxxxxx	T5AGE	Common Supported Gable	1	1	Job Reference (optional)

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

12-31

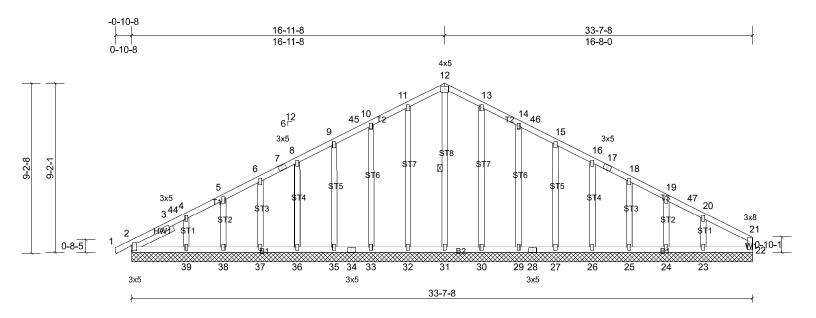
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

except end verticals.

1 Row at midpt

Installation guide



Scale = 1:62.4

Plate Offsets (X, Y): [2:0-3-2,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	24	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 221 lb	FT = 20%

BOT CHORD

WFBS

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

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

OTHERS 2x4 SP No.3 *Except* ST8,ST7,ST6,ST5:2x4 SP No.2

SLIDER Left 2x4 SP No.3 -- 2-6-0

REACTIONS All bearings 33-7-8.

(lb) - Max Horiz 2=94 (LC 12), 40=94 (LC 12)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 23, 24, 25, 26, 27, 29, 30,

32, 33, 35, 36, 37, 38, 39, 40

Max Grav All reactions 250 (lb) or less at joint(s) 2, 22, 23, 24, 25, 26, 27,

29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 10-11=-109/261, 11-12=-127/303, 12-13=-127/303, 13-14=-109/261

NOTES

-) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; BCDL=6.0psf; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-1 to 2-6-4, Exterior(2N) 2-6-4 to 16-11-8, Corner(3R) 16-11-8 to 20-3-14, Exterior(2N) 20-3-14 to 33-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9: Cs=1.00: Ct=1.10
- 5) Unbalanced snow loads have been considered for this design
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 2-0-0 oc.
- 10) * 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.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 12) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, and 23. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

ſ	Job	Truss	Truss Type	Qty	Ply	Jefferson
	XXXXXXX	T5GE	Common Supported Gable	1	1	Job Reference (optional)

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

installed during truss erection, in accordance with Stabilizer

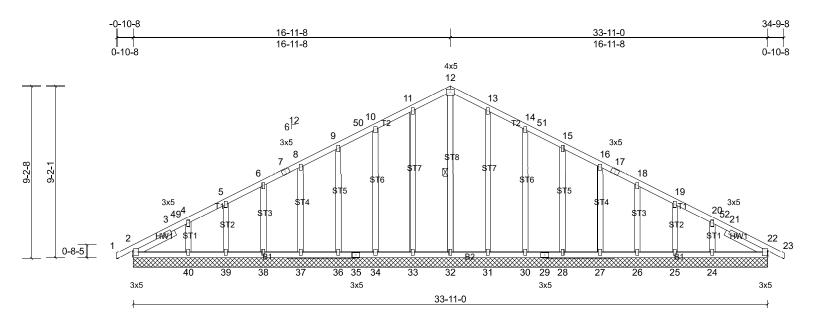
12-32

MiTek recommends that Stabilizers and required cross bracing be

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

1 Row at midpt

Installation guide.



Scale = 1:61.6

Plate Offsets (X, Y): [2:0-3-2,0-0-4], [22:0-3-2,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 227 lb	FT = 20%

BRACING

WFBS

TOP CHORD

BOT CHORD

LUMBER TOP CHORD **BOT CHORD**

OTHERS

SLIDER

2x4 SP No.2 2x4 SP No.2

2x4 SP No.3 *Except* ST8,ST7,ST6,ST5:2x4 SP No.2 Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3 -- 2-6-0

REACTIONS All bearings 33-11-0.

(lb) - Max Horiz 2=91 (LC 14), 41=91 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 24, 25, 26, 27, 28, 30, 31,

33, 34, 36, 37, 38, 39, 40, 41

Max Grav All reactions 250 (lb) or less at joint(s) 2, 22, 24, 25, 26, 27, 28,

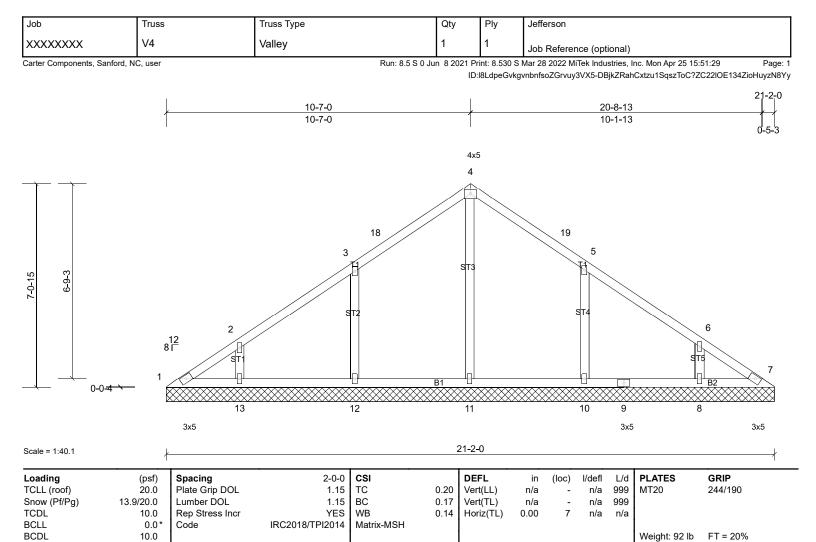
30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 45

FORCES TOP CHORD (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

11-12=-116/271, 12-13=-116/271

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 2) -0-10-1 to 2-6-10, Exterior(2N) 2-6-10 to 16-11-8, Corner(3R) 16-11-8 to 20-4-3, Exterior(2N) 20-4-3 to 34-9-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 3) qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9: Cs=1.00: Ct=1.10
- 5) 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 6)
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 8)
- Gable studs spaced at 2-0-0 oc.
- * 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
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider 11) lateral forces
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, and 24. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



LUMBER TOP CHORD

BOT CHORD

2x4 SP No.2 2x4 SP No.2

OTHERS 2x4 SP No.3 *Except* ST3:2x4 SP No.2

REACTIONS All bearings 21-2-0.

(lb) - Max Horiz 1=129 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 10, 12, 13

Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=328 (LC 25), 10=448 (LC 25), 11=377 (LC 24), 12=449 (LC 24), 13=341

(LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-12=-276/142, 5-10=-274/140

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 10-7-6, Exterior(2R) 10-7-6 to 13-7-6, Interior (1) 13-7-6 to 20-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

BRACING

TOP CHORD

BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

Installation guide.

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- 9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 13, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



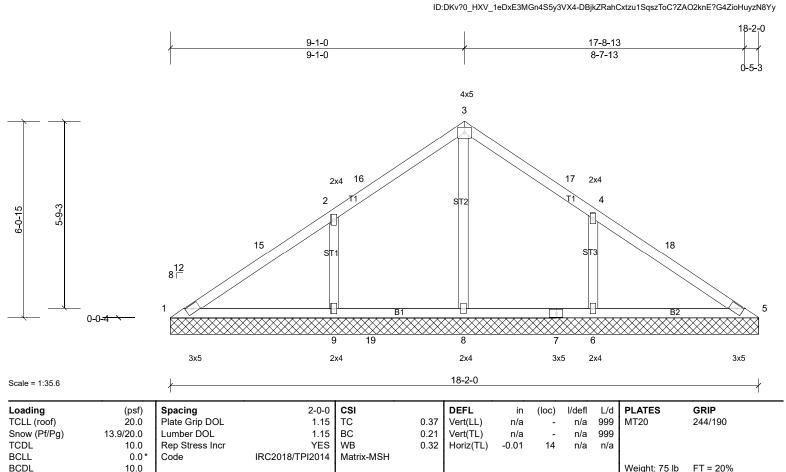
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Structural wood sheathing directly applied or 10-0-0 oc purlins.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

Installation guide.



LUMBER TOP CHORD

BOT CHORD

2x4 SP No.2 2x4 SP No.2

OTHERS 2x4 SP No.3 *Except* ST2:2x4 SP No.2

REACTIONS All bearings 18-2-0.

(lb) - Max Horiz 1=-111 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 9, 14

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 14 except 6=526

(LC 25), 8=708 (LC 24), 9=523 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-15=-71/382, 2-15=-14/454, 2-16=0/311, 3-16=0/392, 3-17=0/383, 4-17=0/270, 4-18=-9/433, 5-18=-23/360 TOP CHORD

BOT CHORD 1-9=-315/69, 9-19=-315/58, 8-19=-315/58, 7-8=-313/58, 6-7=-313/58, 5-6=-313/58 3-8=-561/0, 2-9=-315/147, 4-6=-317/147

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-6 2) to 3-0-6, Interior (1) 3-0-6 to 9-1-6, Exterior (2R) 9-1-6 to 12-1-6, Interior (1) 12-1-6 to 18-2-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

BRACING

TOP CHORD

BOT CHORD

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; 3) Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- 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 5) any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 6. This connection is for uplift only and does not consider lateral forces
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



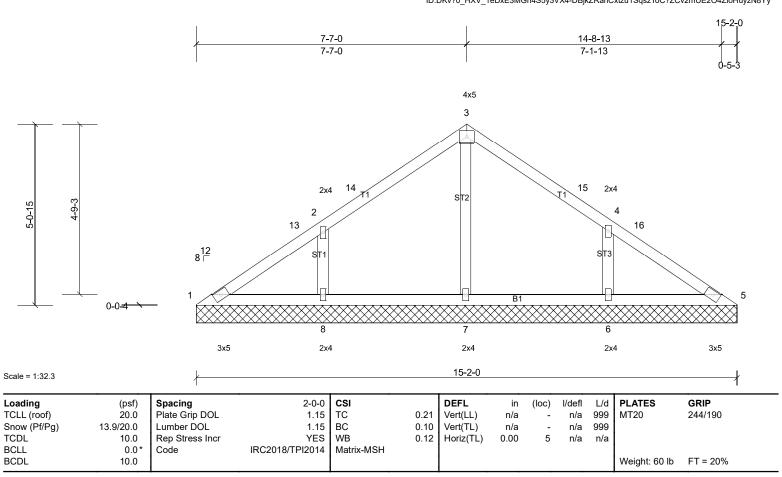
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Structural wood sheathing directly applied or 6-0-0 oc purlins.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

Installation guide.



BRACING

TOP CHORD

BOT CHORD

LUMBER TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD OTHERS 2x4 SP No.3

REACTIONS All bearings 15-2-0. (lb) - Max Horiz 1=92 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 8

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=362 (LC

25), 7=327 (LC 2), 8=363 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WFBS 3-7=-254/4, 2-8=-266/145, 4-6=-263/144

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-6 2) to 3-0-6, Interior (1) 3-0-6 to 7-7-6, Exterior(2R) 7-7-6 to 10-7-6, Interior (1) 10-7-6 to 15-2-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; 3) Ce=0.9; Cs=1.00; Ct=1.10

Gable requires continuous bottom chord bearing.

- * 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral 7)
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Jefferson
XXXXXXX	V7	Valley	1	1	Job Reference (optional)

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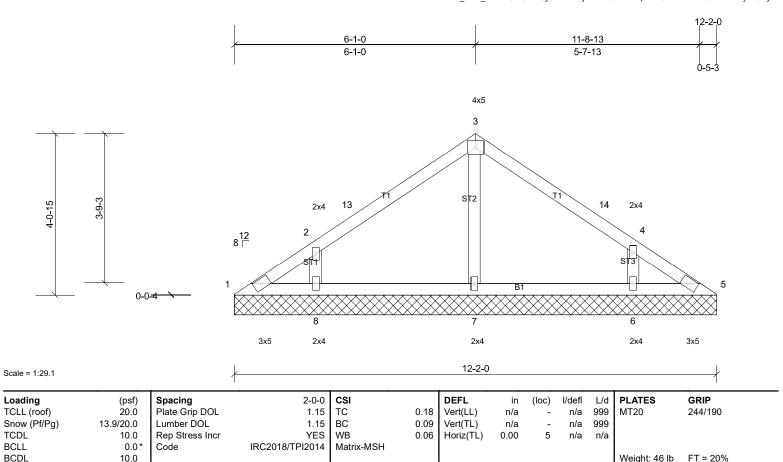
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Structural wood sheathing directly applied or 6-0-0 oc purlins.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

Installation guide.



LUMBER

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

OTHERS 2x4 SP No.3

REACTIONS All bearings 12-2-0. (lb) - Max Horiz 1=73 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 8

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=307 (LC

25), 7=264 (LC 2), 8=311 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WFBS 2-8=-256/176

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-6 2) to 3-0-6, Interior (1) 3-0-6 to 6-1-6, Exterior (2R) 6-1-6 to 9-1-6, Interior (1) 9-1-6 to 12-2-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

BRACING

TOP CHORD

BOT CHORD

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; 3) Ce=0.9; Cs=1.00; Ct=1.10

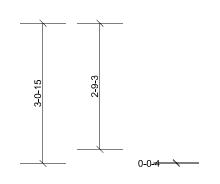
Gable requires continuous bottom chord bearing.

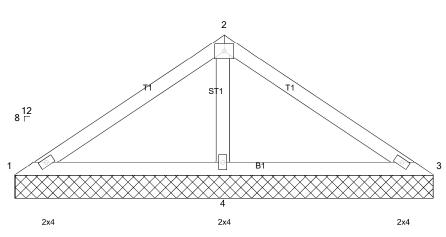
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral 7) forces
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Jefferson
xxxxxxx	V8	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jun 8 2021 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Mon Apr 25 15:51:30 Page: 1
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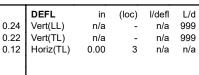




9-2-0

Loading	(psf)
TCLL (roof)	20.0
Snow (Pf/Pg)	13.9/20.0
TCDL	10.0

Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH
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Installation guide.

fl	L/d 999 999 n/a	PLATES	GRIP	
а	999	MT20	244/190	
а	999			
а	n/a			
		Weight: 32 lb	FT = 20%	

Structural wood sheathing directly applied or 9-2-0 oc purlins.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

LUMBER

BCLL

BCDL

Scale = 1:25.3

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

No.3 1=31/9-2-0, (min. 0-1-8), 3=35/9-2-0, (min. 0-1-8), 4=554/9-2-0,

REACTIONS (lb/size) 1=31/9-2-0, (min. 0-1-8)

Max Horiz 1=-54 (LC 11)

Max Uplift 1=-18 (LC 31), 3=-15 (LC 30)

0.0

10.0

Max Grav 1=73 (LC 30), 3=77 (LC 31), 4=654 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-89/296, 2-3=-87/289

WEBS 2-4=-493/208

NOTES

-) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-7-6, Exterior(2R) 4-7-6 to 7-7-6, Interior (1) 7-7-6 to 9-2-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

BRACING

TOP CHORD

BOT CHORD

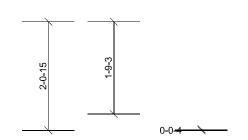
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) * This truss has been designed for a live load of 20.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 15 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

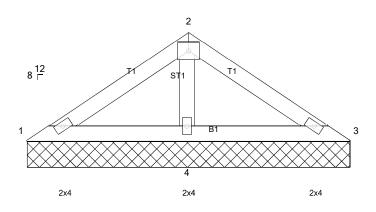
Job	Truss	Truss Type	Qty	Ply	Jefferson
xxxxxxx	V9	Valley	1	1	Job Reference (optional)

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3-1-0 3-1-0 3-1-0 5-8-13 2-7-13

4x5





6-2-0

Installation guide.

Structural wood sheathing directly applied or 6-2-0 oc purlins.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

Scale = 1:22

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

LUMBER

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

REACTIONS (lb/size) 1=41/6-2-0, (min. 0-1-8), 3=44/6-2-0, (min. 0-1-8), 4=332/6-2-0,

(min. 0-1-8)

Max Horiz 1=36 (LC 10)

Max Uplift 3=-2 (LC 9)

Max Grav 1=67 (LC 30), 3=70 (LC 31), 4=393 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-4=-261/135

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- 5) * 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
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Jefferson
xxxxxxx	V10	Valley	1	1	Job Reference (optional)

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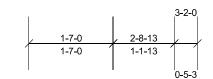
Structural wood sheathing directly applied or 3-2-0 oc purlins.

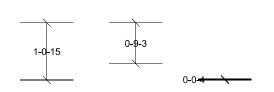
installed during truss erection, in accordance with Stabilizer

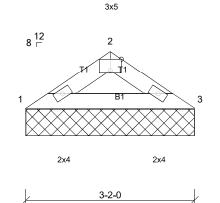
MiTek recommends that Stabilizers and required cross bracing be

Rigid ceiling directly applied or 10-0-0 oc bracing

Page: 1







Installation guide.

Scale = 1:21.7

Plate Offsets (X, Y): [2:0-2-8,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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	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	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

REACTIONS (lb/size) 1=107/3-2-0, (min. 0-1-8), 3=107/3-2-0, (min. 0-1-8)

Max Horiz 1=-17 (LC 11)

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

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

FORCES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- 5) * 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.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.