Job Truss Type Qty Truss A01 22050131 Piggyback Base Girder Job Reference (optional)

Carter Components - Sanford, Sanford, NC, user

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:14

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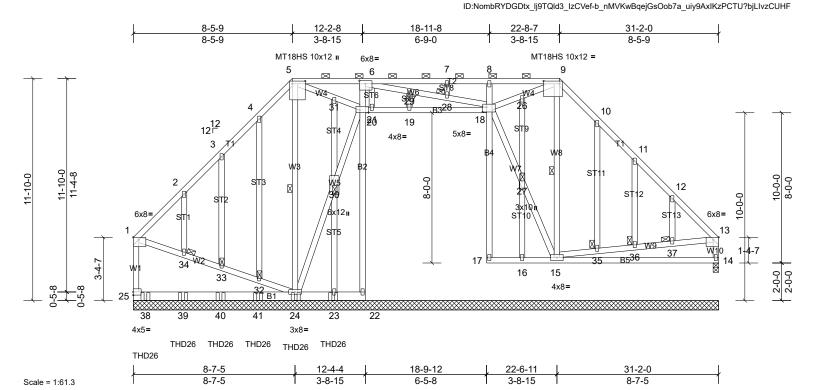


Plate Offsets (X, Y): [1:Edge,0-1-7], [5:0-1-12,0-8-4], [6:0-3-12,0-2-0], [9:0-10-4,0-1-12], [13:0-3-8,Edge], [18:0-2-8,0-3-0], [21:0-5-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.11	24-25	>953	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.23	24-25	>450	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.03	15	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 332 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* B1:2x6 SP 2400F 2.0E, B3,B5:2x4 SP No.2

WFBS 2x4 SP No.3 *Except* W1:2x4 SP 2400F 2.0E

2x4 SP No.3 **OTHERS**

REACTIONS All bearings 31-2-0.

(lb) - Max Horiz 25=-243 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) 14, 16, 17, 22 except 15=-187 (LC 10), 20=-109 (LC 8), 23=-595 (LC 25), 24=-334

(LC 9), 25=-149 (LC 5)

Max Grav All reactions 250 (lb) or less at joint(s) 14, 16, 17, 19, 20, 23

except 15=945 (LC 25), 22=280 (LC 25), 24=2432 (LC 24),

25=860 (LC 24)

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

TOP CHORD 4-5=-114/273, 9-10=0/274 **BOT CHORD**

25-38=-233/303, 38-39=-233/303, 39-40=-233/303, 40-41=-233/303, 24-41=-233/303, 14-15=-112/263

5-24=-387/133, 18-27=-312/233, 15-27=-334/252, 9-15=-385/10, 1-34=-335/229, 33-34=-340/232, 32-33=-377/246,

24-32=-380/249, 15-35=-403/220, 35-36=-395/215, 36-37=-382/207, 13-37=-382/207

NOTES

WEBS

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 2) exposed; end vertical left and right exposed; 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding. 5)
- All plates are MT20 plates unless otherwise indicated. 6)
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) The Fabrication Tolerance at joint 5 = 8%
- 9) 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 10) any other members
- 11) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 25, 22, and 24. This connection is for uplift only and does not consider lateral forces.

BRACING TOP CHORD

BOT CHORD WFBS

JOINTS

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt

1 Brace at Jt(s): 27, 28, 30, 32,

33, 34, 35, 36, 37

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

5-24. 9-15

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-9.

Job	Truss	Truss Type	Qty	Ply	
22050131	A01	Piggyback Base Girder	1	1	Job Reference (optional)

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- 12) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17, 14, 15, 16, 19, and 20. This connection is for uplift only and does not consider lateral forces.
- One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-12 from the left end to 10-7-12 to connect truss(es) H03 (1 ply 2x4 SP), H05 (1 ply 2x4 SP) to front face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-5=-48, 5-9=-58, 9-13=-48, 22-25=-20, 18-21=-20, 14-17=-20

Concentrated Loads (lb)

Vert: 24=-318 (F), 23=-318 (F), 38=-346 (F), 39=-318 (F), 40=-318 (F), 41=-318 (F)

Job	Truss	Truss Type	Qty	Ply	
22050131	A02	Piggyback Base	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

3-15, 2-16, 2-15

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.

installed during truss erection, in accordance with Stabilizer

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

1 Row at midpt

Installation guide

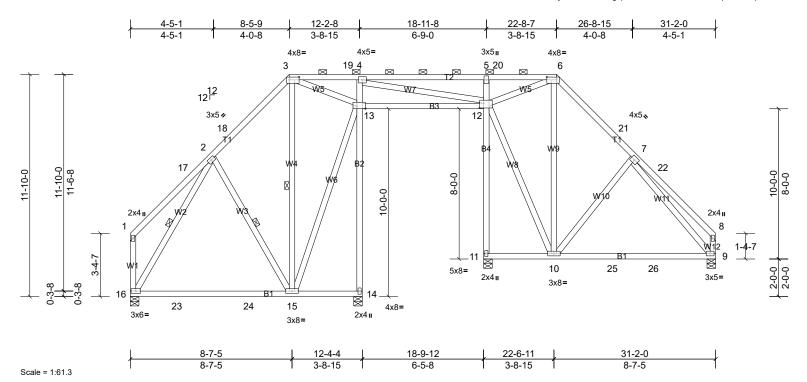


Plate Offsets (X, Y): [3:0-6-4,0-1-12], [6:0-6-4,0-1-12], [12:0-2-8,0-3-0], [13:0-5-8,0-1-8]

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	0.50	Vert(LL)	-0.20	15-16	>727	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.34	15-16	>424	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 263 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD WFBS

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* B2,B4:2x4 SP No.3 **BOT CHORD**

WFBS 2x4 SP No.3

REACTIONS All bearings 0-5-8.

(lb) - Max Horiz 16=-245 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 9, 16 except 14=-122 (LC

All reactions 250 (lb) or less at joint(s) except 9=531 (LC 25), 11=777 (LC 2), 14=762 (LC 2), 16=567 (LC 25) Max Grav

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

2-18=-426/280, 3-18=-392/312, 6-21=-398/280, 7-21=-432/248, 8-22=-274/84, 8-9=-254/98

BOT CHORD 16-23=-104/261, 23-24=-104/261, 15-24=-104/261, 13-14=-776/122, 4-13=-344/113, 11-12=-770/52, 5-12=-349/128 **WEBS**

13-15=-88/474, 10-12=0/320, 2-16=-380/172, 7-10=-253/169

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-3-2, Interior (1) 3-3-2 to 8-5-9, Exterior (2) 8-5-9 to 11-7-0, Interior (1) 11-7-0 to 22-8-7, Exterior (2) 22-8-7 to 25-9-13, Interior (1) 25-9-13 to 31-0-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- * 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14, 11, 16, and 9. This connection is for uplift only and does not consider
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

3-18, 2-18 MiTek recommends that Stabilizers and required cross bracing be

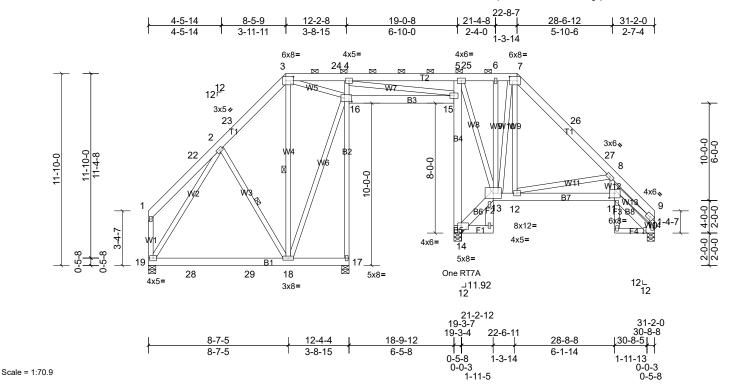
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.

installed during truss erection, in accordance with Stabilizer

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

1 Row at midpt

Installation guide.



*** Design Problems REVIEW REQUIRED

Analog warning - check design

Plate Offsets (X, Y): [3:0-5-8,0-3-0], [7:0-5-8,0-3-0], [11:0-4-0,0-3-8], [14:0-2-12,0-3-0], [16:0-5-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.04	18-19	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.07	18-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 352 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

WEBS

LUMBER 2x6 SP 2400F 2.0E TOP CHORD

2x6 SP 2400F 2.0E *Except* B2:2x4 SP 2400F 2.0E, B4,F1:2x6 SP **BOT CHORD**

No.2, F4:2x4 SP No.3

WEBS

2x4 SP 2400F 2.0E *Except* W1,F3:2x4 SP No.3, F2:2x6 SP No.2

REACTIONS All bearings 0-5-8.

(lb) - Max Horiz 19=-241 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 10, 19 except 17=-122 (LC

All reactions 250 (lb) or less at joint(s) except 10=479 (LC 25),

14=791 (LC 2), 17=759 (LC 2), 19=565 (LC 25)

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

2-23=-438/289, 3-23=-404/320, 3-24=-241/267, 4-24=-241/267, 4-5=-289/269, 5-25=-316/280, 6-25=-316/280,

6-7=-314/278, 7-26=-386/268, 26-27=-390/242, 8-27=-429/223, 8-9=-1081/355, 9-10=-460/146

BOT CHORD 19-28=-103/261, 28-29=-103/261, 18-29=-103/261, 16-17=-764/121, 4-16=-350/129, 14-15=-741/36, 5-15=-667/77,

11-12=-239/723

16-18=-84/476, 7-13=-398/0, 7-12=0/270, 8-12=-649/272, 8-11=-48/414, 9-11=-253/811, 2-19=-413/180, 5-13=0/324

WEBS NOTES

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

- Wind: ASCE 7-10; 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 (2) 0-1-12 2) to 3-3-2, Interior (1) 3-3-2 to 8-5-9, Exterior (2) 8-5-9 to 11-7-0, Interior (1) 11-7-0 to 22-8-7, Exterior (2) 22-8-7 to 25-9-13, Interior (1) 25-9-13 to 31-0-4 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 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 6) any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10, 17, 14, and 19. This connection is for uplift only and does not consider lateral forces.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
22050131	A03	Piggyback Base	1	1	Job Reference (optional)

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9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

-	Job	Truss	Truss Type	Qty	Ply	
	22050131	A04	Piggyback Base	4	1	Job Reference (optional)

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> Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.

MiTek recommends that Stabilizers and required cross bracing be

3-20, 2-21, 2-20

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20,18-19,16-17.

installed during truss erection, in accordance with Stabilizer

1 Row at midpt

Installation guide.

22-3-3 18-6-4 ,30-8-12 3-9-14 3-8-15 6-9-0 2-1-8 11-7-6 6-1-14 1 2-3-12 1

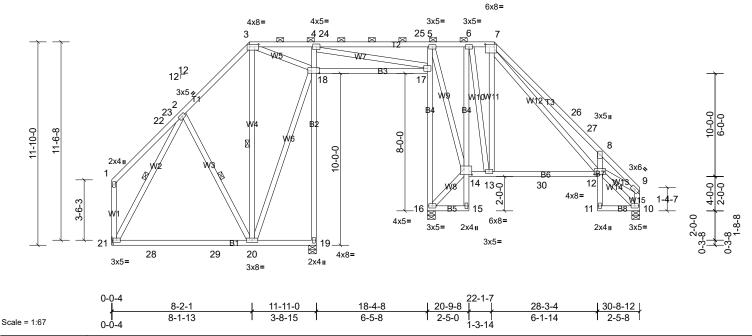


Plate Offsets (X, Y): [3:0-6-4,0-1-12], [7:0-6-4,0-1-12], [12:0-2-4,0-2-0], [14:0-5-8,0-3-12], [18:0-5-8,0-1-8]

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	0.61	Vert(LL)	-0.17	20-21	>830	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.28	20-21	>489	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 288 lb	FT = 20%

WFBS

LUMBER **BRACING** TOP CHORD 2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 *Except* B2,B4,B7:2x4 SP No.3

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

REACTIONS All bearings 0-5-8. except 21= Mechanical

(lb) - Max Horiz 21=-250 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 10, 21 except 19=-127 (LC

All reactions 250 (lb) or less at joint(s) except 10=533 (LC 25), 16=769 (LC 2), 19=746 (LC 2), 21=558 (LC 25) Max Grav

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

TOP CHORD 2-3=-422/324, 3-4=-228/266, 4-24=-313/296, 24-25=-313/296, 5-25=-313/296, 5-6=-324/287, 6-7=-375/282,

7-26=-1330/644, 26-27=-1350/607, 8-27=-1377/596, 8-9=-1042/324, 9-10=-484/139 **BOT CHORD** 18-19=-755/130, 4-18=-346/142, 16-17=-737/39, 5-17=-668/82, 6-14=-400/0, 8-12=-498/326

WEBS 18-20=-95/457, 6-13=0/471, 7-13=-257/58, 7-12=-430/1065, 2-21=-386/202, 5-14=0/339, 9-12=-233/758

NOTES

FORCES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 0-7-0 to 3-7-13, Interior (1) 3-7-13 to 8-5-9, Exterior (2) 8-5-9 to 12-9-10, Interior (1) 12-9-10 to 22-8-7, Exterior (2) 22-8-7 to 27-0-7, Interior (1) 27-0-7 to 31-0-4 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x5 MT20 unless otherwise indicated.
- * 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 100 lb uplift at joint(s) 21. 8)
- 9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 16, and 10. This connection is for uplift only and does not consider lateral forces
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

-	Job	Truss	Truss Type	Qty	Ply	
	22050131	A05	Piggyback Base	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

3-15, 2-16, 2-15

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.

installed during truss erection, in accordance with Stabilizer

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

1 Row at midpt

Installation guide

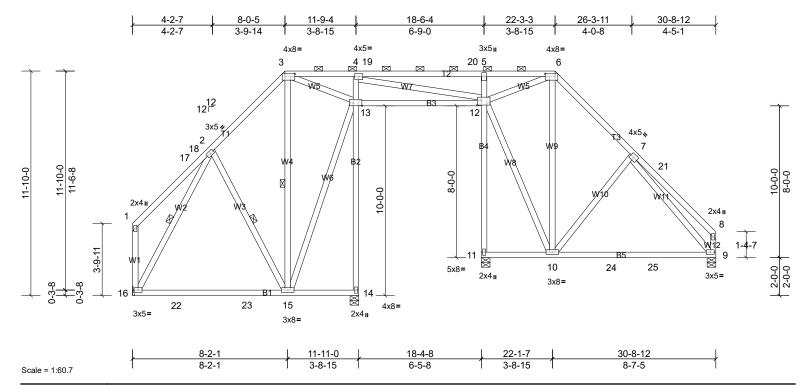


Plate Offsets (X, Y): [3:0-6-4,0-1-12], [6:0-6-4,0-1-12], [12:0-2-8,0-3-0], [13:0-5-8,0-1-8]

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	0.47	Vert(LL)	-0.17	15-16	>830	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.28	15-16	>489	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 262 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD WFBS

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* B2,B4:2x4 SP No.3 **BOT CHORD**

WFBS 2x4 SP No.3

REACTIONS All bearings 0-5-8. except 16= Mechanical

(lb) - Max Horiz 16=-250 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 9, 16 except 14=-126 (LC

All reactions 250 (lb) or less at joint(s) except 9=531 (LC 25), 11=776 (LC 2), 14=745 (LC 2), 16=555 (LC 25) Max Grav

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

TOP CHORD 2-3=-415/317, 6-7=-433/289, 8-21=-274/83, 8-9=-254/97 **BOT CHORD** 13-14=-757/129, 4-13=-344/121, 11-12=-770/60, 5-12=-349/135 13-15=-95/456, 10-12=0/321, 2-16=-383/194, 7-10=-252/174 **WEBS**

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-10; 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 (2) 0-7-0 to 3-7-13, Interior (1) 3-7-13 to 8-5-9, Exterior (2) 8-5-9 to 12-9-10, Interior (1) 12-9-10 to 22-8-7, Exterior (2) 22-8-7 to 26-10-0, Interior (1) 26-10-0 to 31-0-4 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=1.33

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

Provide adequate drainage to prevent water ponding.

* 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.

Refer to girder(s) for truss to truss connections

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16.

One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14, 11, and 9. This connection is for uplift only and does not consider lateral 8) forces

This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

Job	Truss	Truss Type	Qty	Ply	
22050131	A06	Piggyback Base	3	1	Job Reference (optional)

3-9-11

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10

1 Row at midpt

Installation guide

3x8=

24

25

30-8-12

8-7-5

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

MiTek recommends that Stabilizers and required cross bracing be

3-15, 4-12, 2-16,

except end verticals, and 2-0-0 oc purlins (4-6-0 max.): 3-6.

installed during truss erection, in accordance with Stabilizer

Rigid ceiling directly applied or 4-7-5 oc bracing

 \bowtie

3x5

8-0-5 18-6-4 26-3-11 30-8-12 4-2-7 11-9-4 22-3-3 3-8-15 3-9-14 4-2-7 6-9-0 3-8-15 4-0-8 4-5-1 4x5= 3x5 II 4x8= 4x8= 3 4 19 ⊠ 20 5 6 W/ 12 12 13 12 3x5 4x5 18 17 2 11-6-8 8-0-0 0-0-01 2x4 II 8

5x8=

BOT CHORD

WFBS

2x4 II

22-1-7

3-8-15

Scale = 1:60.7

Plate Offsets (X, Y): [3:0-6-4,0-1-12], [6:0-6-4,0-1-12], [12:0-2-8,0-3-0], [13:0-5-8,0-1-8]

8-2-1

8-2-1

22

3x5=

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	0.77	Vert(LL)	-0.17	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.33	15-16	>674	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.25	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 262 lb	FT = 20%

18-4-8

6-5-8

5x8=

2x41

LUMBER **BRACING** TOP CHORD 2x4 SP No.2 TOP CHORD

23

15

3x8=

11-11-0

3-8-15

2x4 SP No.2 *Except* B2,B4:2x4 SP No.3 **BOT CHORD**

WFBS 2x4 SP No 3

REACTIONS (lb/size) 9=310/0-5-8, (min. 0-1-8), 11=1309/0-5-8, (min. 0-1-10),

16=584/ Mechanical, (min. 0-1-8)

Max Horiz 16=-250 (LC 11)

Max Uplift 9=-93 (LC 14), 11=-74 (LC 10), 16=-17 (LC 14)

Max Grav 9=471 (LC 25), 11=1402 (LC 2), 16=689 (LC 25)

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

TOP CHORD 2-3=-524/302, 3-4=-1611/285, 4-19=-132/656, 19-20=-132/656, 5-20=-132/656, 5-6=-133/753, 6-7=-372/297,

8-21=-271/83, 8-9=-252/97

16-22=-123/354, 22-23=-123/354, 15-23=-123/354, 4-13=-17/349, 12-13=-297/1667, 11-12=-1396/87, 5-12=-387/137 **BOT CHORD** WEBS

3-15=-483/126, 13-15=-164/860, 3-13=-268/1470, 4-12=-2345/418, 6-12=-853/132, 6-10=-147/329, 2-16=-534/177,

7-10=-262/173

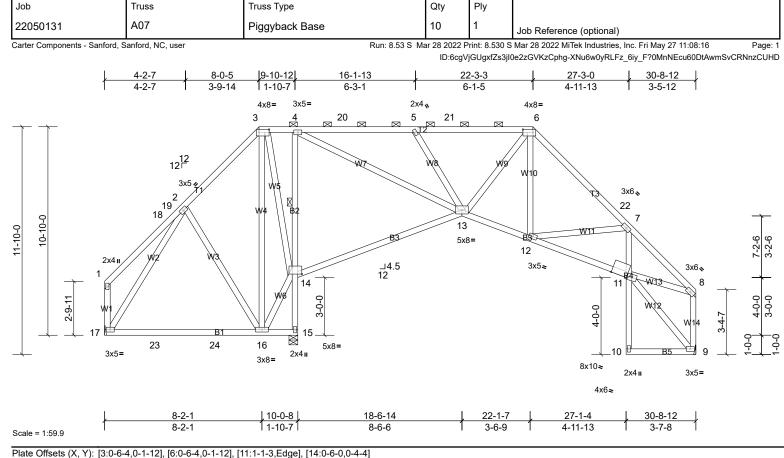
NOTES

FORCES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 0-7-0 2) to 3-7-13, Interior (1) 3-7-13 to 8-5-9, Exterior (2) 8-5-9 to 12-9-10, Interior (1) 12-9-10 to 22-8-7, Exterior (2) 22-8-7 to 26-10-0, Interior (1) 26-10-0 to 31-0-4 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- * 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 17 lb uplift at joint 16.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 9. This connection is for uplift only and does not consider lateral 8) forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)



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	0.49	Vert(LL)	-0.13	16-17	>914	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.25	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.10	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		1						
BCDL	10.0]									Weight: 247 lb	FT = 20%

BOT CHORD

1 Row at midpt

4-14

Installation guide

Structural wood sheathing directly applied or 5-1-14 oc purlins,

MiTek recommends that Stabilizers and required cross bracing be

except end verticals, and 2-0-0 oc purlins (5-9-1 max.): 3-6.

installed during truss erection, in accordance with Stabilizer

Rigid ceiling directly applied or 4-0-10 oc bracing. Except:

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 2x4 SP No.2 *Except* B2,B4:2x4 SP No.3 **BOT CHORD**

WFBS 2x4 SP No.3

REACTIONS (lb/size) 9=649/ Mechanical, (min. 0-1-8), 15=1411/0-5-8, (min. 0-1-13),

17=144/ Mechanical, (min. 0-1-8)

Max Horiz 17=250 (LC 12)

Max Uplift 9=-9 (LC 14), 15=-74 (LC 10), 17=-70 (LC 13)

Max Grav 9=732 (LC 2), 15=1517 (LC 2), 17=349 (LC 25)

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

TOP CHORD 2-3=-261/318, 3-4=-104/255, 4-20=-914/276, 5-20=-914/276, 5-21=-682/188, 6-21=-682/188, 6-22=-849/218,

7-22=-959/180, 7-8=-1247/265, 8-9=-699/164

14-15=-1566/137, 4-14=-870/154, 13-14=-288/153, 12-13=-4/657, 11-12=-211/942 **BOT CHORD** WEBS

3-16=-223/532, 14-16=-189/262, 3-14=-643/122, 4-13=-153/1279, 5-13=-471/177, 6-12=-48/269, 7-12=-416/202,

8-11=-159/864, 2-16=-288/202

NOTES

FORCES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-2-9, Interior (1) 3-2-9 to 8-0-5, Exterior (2) 8-0-5 to 12-4-6, Interior (1) 12-4-6 to 22-3-3, Exterior (2) 22-3-3 to 26-7-3, Interior (1) 26-7-3 to 30-7-0 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- * 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 70 lb uplift at joint 17 and 9 lb uplift at joint 9.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces. 8)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 10)

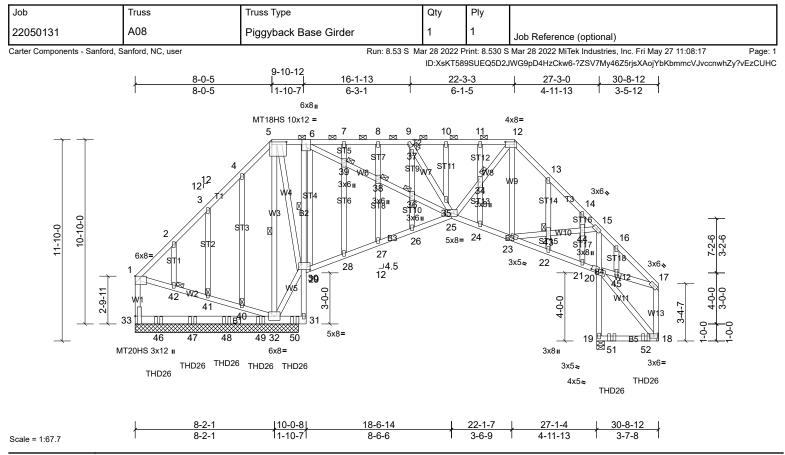


Plate Offsets (X, Y): [1:Edge,0-1-7], [5:0-10-4,0-1-12], [12:0-6-4,0-1-12], [20:0-7-11,0-0-0], [30:0-6-4,0-4-0], [33:0-5-8,Edge]

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	0.56	Vert(LL)	-0.11	32-33	>895	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.23	32-33	>427	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	19	n/a	n/a	MT20HS	187/143
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0			_							Weight: 326 lb	FT = 20%

LUMBER **BRACING** TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* B1:2x6 SP 2400F 2.0E, B2,B4:2x4 SP No.3 **BOT CHORD**

WFBS 2x4 SP No.3 *Except* W1:2x4 SP 2400F 2.0E

OTHERS 2x4 SP No 3

REACTIONS All bearings 9-7-0. except 19=0-5-8, 18= Mechanical

(lb) - Max Horiz 33=250 (LC 8)

Max Uplift All uplift 100 (lb) or less at joint(s) 19 except 18=-462 (LC 28), 32=-259 (LC 6), 33=-152 (LC 5)

Max Grav All reactions 250 (lb) or less at joint(s) 18 except 19=720 (LC

25), 32=3131 (LC 2), 33=586 (LC 21)

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-12.

Rigid ceiling directly applied or 6-0-0 oc bracing, Except: **BOT CHORD**

10-0-0 oc bracing: 32-33,24-25,23-24

5-11-14 oc bracing: 19-20.

1 Row at midpt 6-30

WEBS 1 Row at midpt **JOINTS**

1 Brace at Jt(s): 34, 36, 37, 38,

39. 40. 41. 42. 43

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

5-32

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

TOP CHORD 1-2=-248/419, 2-3=-224/494, 3-4=-179/510, 4-5=-159/587, 5-6=-32/334, 6-7=-660/45, 7-8=-660/45, 8-9=-660/45,

9-10=-449/35, 10-11=-449/35, 11-12=-449/35, 12-13=-479/66, 13-14=-508/12, 14-15=-544/0, 1-33=-178/298 33-46=-247/343, 46-47=-247/343, 47-48=-247/343, 48-49=-247/343, 32-49=-247/343, 30-31=-565/5, 6-30=-639/22,

29-30=-354/118, 28-29=-357/135, 27-28=-337/132, 26-27=-328/135, 25-26=-344/134, 24-25=-13/368, 23-24=-14/334,

19-20=-784/0, 15-20=-649/0

5-32=-609/334, 30-32=-595/228, 6-39=-25/1028, 38-39=-23/992, 36-38=-23/974, 25-36=-24/1001, 9-37=-296/38. **WEBS**

35-37=-425/18, 25-35=-529/46, 23-43=-26/373, 43-44=-24/377, 15-44=-24/376, 1-42=-544/231, 41-42=-544/231,

40-41=-575/243, 32-40=-583/247

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 2) exposed; end vertical left and right exposed; 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding. 5)
- 6) All plates are MT20 plates unless otherwise indicated
- All plates are 2x4 MT20 unless otherwise indicated. 7)
- Gable studs spaced at 2-0-0 oc. 8)

Job	Truss	Truss Type	Qty	Ply	
22050131	A08	Piggyback Base Girder	1	1	Job Reference (optional)

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- * 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 100 lb uplift at joint(s) except (jt=lb) 18=462.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 33, 19, and 32. This connection is for uplift only and does not consider
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 13)
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 14)
- Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-8 from the left end to 9-4-8 to connect truss(es) K04 (1 ply 2x4 SP) to back face of bottom chord.
- Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 27-11-14 from the left end to 29-11-14 to connect truss(es) K02 (1 ply 2x4 SP), K01 (1 ply 2x4 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- WARNING: The following hangers are manually applied but fail due to geometric considerations: THD26 on back face at 27-11-14 from the left end, THD26 on back face at 29-11-14 from the left end.
- 19) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

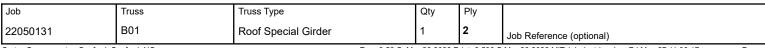
Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-48, 5-12=-58, 12-17=-48, 31-33=-20, 25-30=-20, 20-25=-20, 18-19=-20

Concentrated Loads (lb)

Vert: 46=-408 (B), 47=-408 (B), 48=-408 (B), 49=-408 (B), 50=-408 (B), 51=67 (B), 52=199 (B)



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

4-12 5-12

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.

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

1 Row at midpt

Page: 1

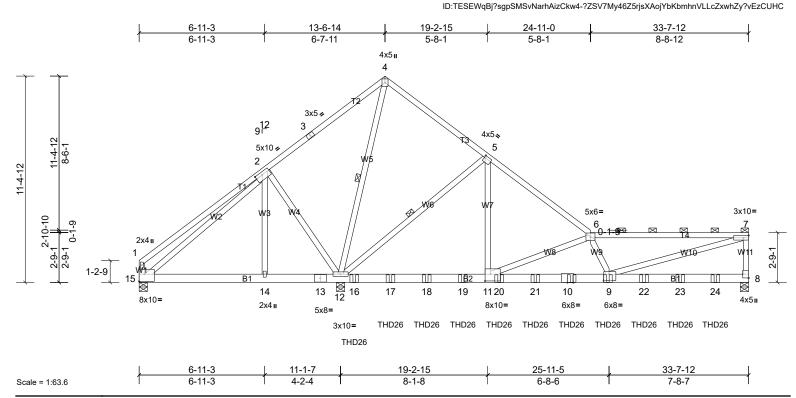


Plate Offsets (X, Y): [2:0-4-9,0-1-12], [5:0-0-8,0-1-8], [8:Edge,0-3-8], [9:0-3-8,0-4-4], [11:0-3-8,0-4-8], [15:Edge,0-4-12]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.14	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.26	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	-0.01	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	İ									Weight: 476 lb	FT = 20%

BOT CHORD

WEBS

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 *Except* T4:2x4 SP 2400F 2.0E

2x6 SP 2400F 2.0E **BOT CHORD** WFBS 2x4 SP No.3 *Except* W5,W10:2x4 SP 2400F 2.0E

REACTIONS (lb/size) 8=2171/0-5-8, (min. 0-1-8), 12=8381/0-5-8, (min. 0-3-15),

15=-2154/0-5-8, (min. 0-1-8)

Max Horiz 15=233 (LC 38)

Max Uplift 8=-245 (LC 10), 12=-266 (LC 10), 15=-2621 (LC 25)

Max Grav 8=2439 (LC 2), 12=9512 (LC 2), 15=131 (LC 10)

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

TOP CHORD 1-2=-79/456, 2-3=-84/3975, 3-4=-58/4129, 4-5=-64/2877, 5-6=-1425/49, 6-7=-5806/188, 7-8=-2042/111 **BOT CHORD**

14-15=-3097/268, 13-14=-3099/269, 12-13=-3099/269, 12-16=-2/1062, 16-17=-2/1062, 17-18=-2/1062, 18-19=-2/1062,

11-19=-2/1062, 11-20=-205/5502, 20-21=-205/5502, 10-21=-205/5502, 9-10=-205/5502

2-14=-313/75, 2-12=-456/167, 4-12=-4506/112, 5-12=-4263/215, 5-11=-75/4818, 6-11=-4824/253, 6-9=-39/938,

7-9=-162/5850, 2-15=-202/3730

WEBS NOTES

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

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

Bottom chords connected as follows: 2x6 - 2 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.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 4) exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- * 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 2621 lb uplift at joint 15.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 12. This connection is for uplift only and does not consider lateral 9) forces
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	B01	Roof Special Girder	1	2	Job Reference (optional)

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- 12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 11-10-8 from the left end to 31-9-12 to connect truss(es) A07 (1 ply 2x4 SP), A08 (1 ply 2x4 SP) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-46, 4-6=-46, 6-7=-56, 8-15=-19

Concentrated Loads (lb)

Vert: 9=-630 (B), 10=-630 (B), 16=-630 (B), 17=-630 (B), 18=-630 (B), 19=-630 (B), 20=-630 (B), 21=-630 (B), 22=-630 (B), 23=-630 (B), 24=170 (B)



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Structural wood sheathing directly applied or 3-10-7 oc purlins,

6-12, 4<u>-21</u>

MiTek recommends that Stabilizers and required cross bracing be

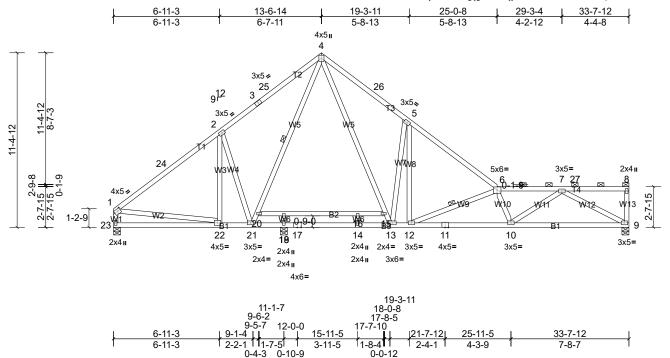
except end verticals, and 2-0-0 oc purlins (3-4-12 max.): 6-8.

installed during truss erection, in accordance with Stabilizer

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

1 Row at midpt

Installation guide



Scale = 1:75.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.15	10-12	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.31	10-12	>864	180		
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	İ									Weight: 235 lb	FT = 20%

0-4-3 1-3-3

BOT CHORD

WFBS

LUMBER **BRACING** TOP CHORD 2x4 SP No.2 TOP CHORD

2x4 SP 2400F 2.0E **BOT CHORD** WFBS 2x4 SP No.3

REACTIONS (lb/size) 9=1045/0-5-8, (min. 0-1-8), 19=933/0-5-8, (min. 0-1-8),

23=735/0-5-8, (min. 0-1-8) Max Horiz 23=242 (LC 10)

Max Uplift 23=-14 (LC 13)

Max Grav 9=1151 (LC 2), 19=1253 (LC 24), 23=878 (LC 2)

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

TOP CHORD 1-24=-1032/163, 2-24=-911/191, 2-3=-816/289, 3-25=-759/308, 4-25=-753/332, 4-26=-1339/279, 5-26=-1452/242,

5-6=-1664/161, 6-7=-2696/200, 1-23=-819/168

BOT CHORD 22-23=-234/317, 21-22=-144/747, 19-21=-8/590, 17-19=-8/590, 14-17=-8/590, 13-14=-8/590, 12-13=-89/1246,

11-12=-258/2889, 10-11=-258/2889, 9-10=-215/1755

WEBS 2-22=0/267, 5-12=-118/800, 6-12=-1774/199, 6-10=-553/109, 1-22=-3/593, 7-10=-6/1155, 7-9=-1966/226, 4-15=-74/1255,

0-0-12

13-15=-122/1202, 4-20=-434/0, 2-21=-647/185, 5-13=-1051/322, 18-19=-481/0

NOTES

FORCES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-6-2, Interior (1) 3-6-2 to 13-6-14, Exterior (2) 13-6-14 to 16-11-4, Interior (1) 16-11-4 to 33-6-0 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 200.0lb AC unit load placed on the bottom chord, 13-6-14 from left end, supported at two points, 5-0-0 apart. 4)
 - Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 6)
- * 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 7) any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9, 23, and 19. This connection is for uplift only and does not consider 8)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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25-10-4

4-2-8

1 Row at midpt

2 Rows at 1/3 pts

Installation guide.

33-7-12

7-9-8

Structural wood sheathing directly applied or 4-1-7 oc purlins,

6-11, 4-20

6-8

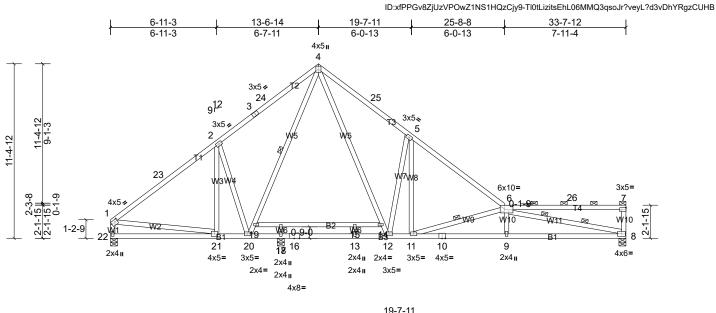
MiTek recommends that Stabilizers and required cross bracing be

except end verticals, and 2-0-0 oc purlins (3-1-0 max.): 6-7.

installed during truss erection, in accordance with Stabilizer

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

Page: 1



Scale = 1:75.2

Plate Offsets (X, Y): [1:0-2-0,0-1-12], [6:0-6-12,0-2-12], [7:Edge,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	0.90	Vert(LL)	-0.22	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.45	9-11	>593	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		İ						
BCDL	10.0	İ									Weight: 232 lb	FT = 20%

15-11-6

3-11-6

18-0-8

0-0-12

BOT CHORD

WFBS

WFBS

0-4-3

1-8-4 11-7-3 2-0-1

11-1-7 9-6-2

111-7-5

0-0-12

0-10-9

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

6-11-3

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E

2x4 SP No 3

REACTIONS (lb/size) 8=979/0-5-8, (min. 0-1-8), 18=1118/0-5-8, (min. 0-1-8),

22=609/0-5-8, (min. 0-1-8)

Max Horiz 22=237 (LC 10) Max Uplift 22=-26 (LC 13)

Max Grav 8=1081 (LC 2), 18=1442 (LC 24), 22=736 (LC 2)

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

TOP CHORD 1-23=-837/153, 2-23=-716/181, 2-3=-611/277, 3-24=-572/296, 4-24=-566/320, 4-25=-1170/260, 5-25=-1262/236,

5-6=-1559/157, 1-22=-681/161

BOT CHORD 21-22=-231/313, 20-21=-111/609, 18-20=0/473, 16-18=0/473, 13-16=0/473, 12-13=0/473, 11-12=-72/1161,

10-11=-274/3212, 9-10=-274/3212, 8-9=-266/3221

WEBS 2-21=0/354, 5-11=-106/849, 6-11=-2150/218, 6-8=-3148/227, 1-21=0/445, 4-14=-58/1163, 12-14=-107/1112,

19-20=-342/39, 4-19=-583/0, 5-12=-1077/308, 2-20=-716/189, 17-18=-549/0

NOTES

FORCES

WFBS

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-6-2, Interior (1) 3-6-2 to 13-6-14, Exterior (2) 13-6-14 to 16-11-4, Interior (1) 16-11-4 to 33-6-0 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) 200.0lb AC unit load placed on the bottom chord, 13-6-14 from left end, supported at two points, 5-0-0 apart.
- b) Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8, 22, and 18. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Structural wood sheathing directly applied or 4-0-14 oc purlins,

MiTek recommends that Stabilizers and required cross bracing be

7-13, 8-10, 4-22

except end verticals, and 2-0-0 oc purlins (2-7-15 max.): 7-9.

installed during truss erection, in accordance with Stabilizer

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

1 Row at midpt

Installation guide.

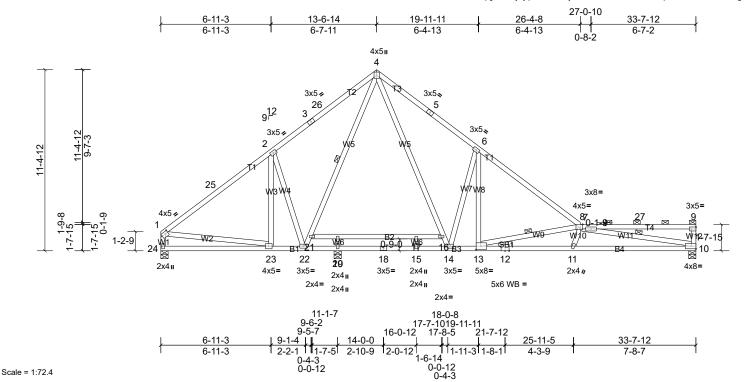


Plate Offsets (X, Y): [1:0-2-0,0-1-12], [7:0-1-12,0-2-12], [9:Edge,0-1-8], [13:0-3-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.28	11-13	>971	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.56	11-13	>478	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	İ									Weight: 231 lb	FT = 20%

BOT CHORD

WFBS

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 2x4 SP 2400F 2.0E **BOT CHORD**

WFBS 2x4 SP No.3 *Except* W11:2x4 SP 2400F 2.0E

2x4 SP No 3 **OTHERS**

REACTIONS (lb/size) 10=938/0-5-8, (min. 0-1-8), 20=1225/0-5-8, (min. 0-1-8),

24=535/0-5-8, (min. 0-1-8)

Max Horiz 24=231 (LC 10)

Max Uplift 24=-31 (LC 13)

Max Grav 10=1040 (LC 2), 20=1556 (LC 24), 24=652 (LC 2)

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

TOP CHORD 1-25=-723/141, 2-25=-601/170, 2-3=-500/264, 3-26=-461/283, 4-26=-455/307, 4-5=-1076/242, 5-6=-1155/217,

6-7=-1525/148, 7-8=-3897/288, 1-24=-599/153 23-24=-226/312, 22-23=-106/529, 20-22=0/410, 18-20=0/410, 15-18=0/410, 14-15=0/410, 13-14=-53/1132,

12-13=-286/3902, 11-12=-286/3902, 10-11=-322/3871

2-23=0/414, 6-13=-88/855, 7-13=-2836/242, 8-10=-3734/288, 1-23=0/357, 4-16=-43/1118, 14-16=-93/1065, 21-22=-408/3,

WEBS 4-21=-677/0, 2-22=-757/192, 6-14=-1083/296, 19-20=-589/0

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 0-1-12 2) to 3-6-2, Interior (1) 3-6-2 to 13-6-14, Exterior (2) 13-6-14 to 16-11-4, Interior (1) 16-11-4 to 33-6-0 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 200.0lb AC unit load placed on the bottom chord, 13-6-14 from left end, supported at two points, 5-0-0 apart. 4)
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 6)
- * 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.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10, 24, and 20. This connection is for uplift only and does not consider lateral forces
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

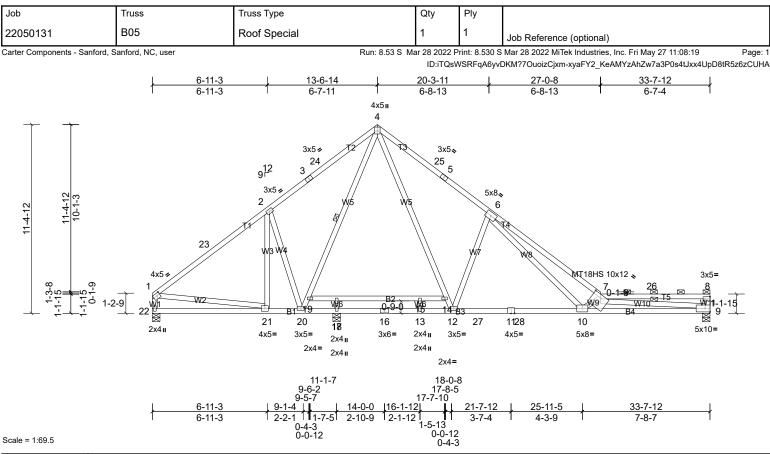


Plate Offsets (X, Y): [1:0-2-0,0-1-12], [7:0-6-0,0-2-4], [8:Edge,0-1-8]

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	0.70	Vert(LL)	-0.41	10-12	>655	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.84	10-12	>319	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	İ									Weight: 221 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 *Except* T3,T4:2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E **BOT CHORD**

WFBS 2x4 SP No.3 *Except* W8,W10:2x4 SP 2400F 2.0E **BOT CHORD**

9=884/0-5-8, (min. 0-1-8), 18=1376/0-5-8, (min. 0-1-8), REACTIONS (lb/size)

22=432/0-5-8, (min. 0-1-8)

Max Horiz 22=-228 (LC 9)

Max Uplift 22=-40 (LC 13)

Max Grav 9=983 (LC 2), 18=1762 (LC 25), 22=570 (LC 28)

TOP CHORD

WEBS

Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

8-9-4 oc bracing: 20-21

8-5-9 oc bracing: 18-20.

1 Row at midpt 7-9, 4-20

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

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

TOP CHORD 1-23=-606/132, 2-23=-485/160, 2-3=-354/251, 3-24=-296/270, 4-24=-290/294, 4-25=-972/229, 5-25=-976/204,

5-6=-1058/184, 6-7=-3700/299, 7-26=-346/42, 8-26=-347/42, 1-22=-515/147

BOT CHORD 21-22=-223/308, 20-21=-125/417, 18-20=-14/325, 16-18=-14/325, 13-16=-14/325, 12-13=-14/325, 12-27=-36/1044, 11-27=-36/1044, 11-28=-36/1044, 10-28=-36/1044, 9-10=-450/5150

WEBS 2-21=0/530, 6-12=-872/264, 6-10=-190/2711, 7-10=-2921/368, 7-9=-4850/407, 1-21=0/265, 4-14=-32/1168,

12-14=-88/1179, 19-20=-562/0, 4-19=-882/0, 2-20=-857/199, 17-18=-635/0

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 0-1-12 2) to 3-6-2, Interior (1) 3-6-2 to 13-6-14, Exterior (2) 13-6-14 to 16-11-4, Interior (1) 16-11-4 to 33-6-0 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 200.0lb AC unit load placed on the bottom chord, 13-6-14 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding. 5)
- 6) All plates are MT20 plates unless otherwise indicated
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9, 22, and 18. This connection is for uplift only and does not consider 8)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.

5-22

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

Rigid ceiling directly applied or 2-8-1 oc bracing.

1 Row at midpt

Installation guide.

Page: 1

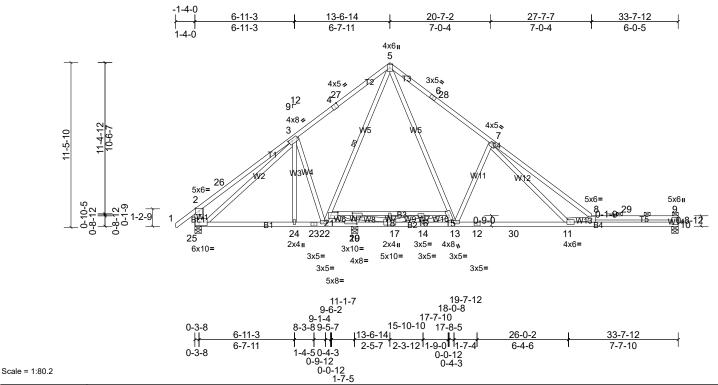


Plate Offsets (X, Y): [3:0-3-1,0-1-12], [4:0-2-8,Edge], [19:0-3-8,0-1-8], [20:0-3-8,0-2-0], [21:0-6-0,0-2-8]

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	0.39	Vert(LL)	-0.26	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.55	11-13	>485	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	-0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 230 lb	FT = 20%

BOT CHORD

WFBS

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP 2400F 2.0E

2x4 SP 2400F 2.0E *Except* W14:2x6 SP 2400F 2.0E, W1:2x4 SP WFBS

No.3

OTHERS 2x4 SP No.3

REACTIONS (lb/size) 10=310/0-5-8, (min. 0-1-8), 19=3100/0-5-8, (min. 0-3-0),

25=-667/0-5-8, (min. 0-1-8)

Max Horiz 25=-243 (LC 11) Max Uplift 25=-1013 (LC 30)

Max Grav 10=325 (LC 2), 19=3645 (LC 26), 25=-20 (LC 14)

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

TOP CHORD 3-4=0/1730, 4-27=0/1762, 5-27=0/1831, 5-6=0/841, 6-28=0/733, 7-28=0/609, 8-29=-1012/88, 9-29=-1014/88, 2-25=-346/229

24-25=-1267/134, 23-24=-1265/133, 22-23=-1265/133, 19-22=-1454/238, 17-19=-6155/549, 14-17=-2055/566,

13-14=-806/244, 12-13=-369/111, 12-30=-369/111, 11-30=-369/111, 10-11=-95/1012, 20-21=-374/5543, 18-20=-506/3467,

16-18=-493/3422, 15-16=-391/1443

3-24=0/294, 7-13=-549/231, 7-11=0/541, 8-11=-1047/237, 3-25=-240/1677, 5-15=-7/300, 13-15=-120/754, 21-22=-160/350, 5-21=-2140/0, 19-20=-1029/0, 3-22=-847/202, 19-21=-5179/352, 17-20=0/2442, 14-16=-58/651,

16-17=-2116/109, 14-15=-1400/367

NOTES

WEBS

BOT CHORD

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

- Wind: ASCE 7-10; 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 (2) -1-3-7 2) to 2-0-15, Interior (1) 2-0-15 to 13-6-14, Exterior (2) 13-6-14 to 16-11-4, Interior (1) 16-11-4 to 33-5-0 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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. 4)
- 200.0lb AC unit load placed on the bottom chord, 13-6-14 from left end, supported at two points, 5-0-0 apart. 5)
- Provide adequate drainage to prevent water ponding. 6)
- * 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 7) any other members, with BCDL = 10.0psf.
- 8) Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 19. This connection is for uplift only and does not consider lateral
- 10) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 25. This connection is for uplift only and does not consider lateral forces.

Job	Truss	Truss Type	Qty	Ply	
22050131	B06	Roof Special	1	1	Job Reference (optional)

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- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.



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Structural wood sheathing directly applied or 5-7-3 oc purlins,

MiTek recommends that Stabilizers and required cross bracing be

5-21, 7-12, 7-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

installed during truss erection, in accordance with Stabilizer

Rigid ceiling directly applied or 4-6-10 oc bracing.

1 Row at midpt

Installation guide

Page: 1

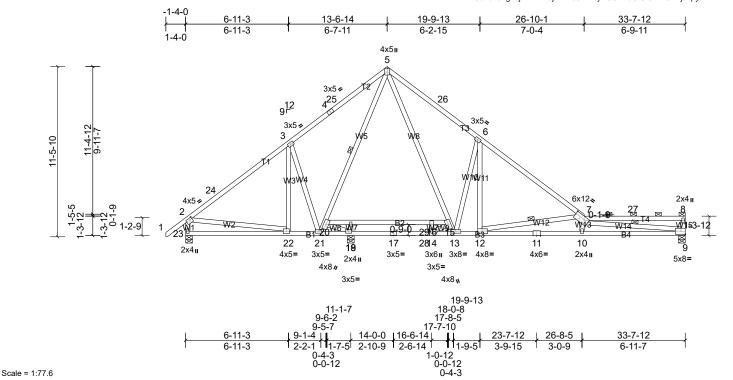


Plate Offsets (X, Y): [2:0-1-12,0-1-8], [7:0-8-4,0-2-4], [12:0-3-8,0-2-0]

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	0.81	Vert(LL)	-0.27	10-12	>994	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.59	10-12	>458	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 235 lb	FT = 20%

BOT CHORD WEBS

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* W5,W14:2x4 SP 2400F 2.0E

REACTIONS (lb/size) 9=675/0-5-8, (min. 0-1-8), 19=2012/0-5-8, (min. 0-1-14),

23=79/0-5-8, (min. 0-1-8)

Max Horiz 23=230 (LC 10) Max Uplift 23=-206 (LC 30)

 $Max\ Grav\ \ 9{=}738\ (LC\ 2),\ 19{=}2256\ (LC\ 2),\ 23{=}372\ (LC\ 29)$

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

TOP CHORD 2-24=-200/460, 3-24=0/518, 3-4=0/650, 4-25=0/681, 5-25=0/721, 5-26=-541/159, 6-26=-585/118, 6-7=-710/23, 2.33=316/557

2-23=-315/257

BOT CHORD 22-23=-238/321, 21-22=-380/181, 19-21=-294/190, 17-19=-1897/501, 17-28=-1897/501, 14-28=-1897/501,

13-14=-384/209, 12-13=0/476, 11-12=-104/3151, 10-11=-104/3151, 9-10=-118/3135, 18-20=-367/1908, 18-29=-367/1908,

16-29=-367/1908, 15-16=-367/1908

WEBS 3-22=0/476, 2-22=-436/165, 6-12=0/362, 5-15=-16/806, 13-15=-205/1461, 20-21=-376/9, 5-20=-1280/0, 3-21=-792/185, 18-19=-582/0, 14-16=-43/454, 7-12=-2706/184, 6-13=-708/216, 7-9=-3146/108, 19-20=-1833/346, 14-15=-1854/351

NOTES

FORCES

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

- 2) Wind: ASCE 7-10; 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 (2) -1-3-7 to 2-0-15, Interior (1) 2-0-15 to 13-6-14, Exterior (2) 13-6-14 to 16-11-4, Interior (1) 16-11-4 to 33-6-0 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) 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) 200.0lb AC unit load placed on the bottom chord, 13-6-14 from left end, supported at two points, 5-0-0 apart.
- 6) Provide adequate drainage to prevent water ponding.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9, 23, and 19. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Structural wood sheathing directly applied or 4-0-1 oc purlins,

7-12. 5-21

MiTek recommends that Stabilizers and required cross bracing be

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

installed during truss erection, in accordance with Stabilizer

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

1 Row at midpt

2 Rows at 1/3 pts

Installation guide.

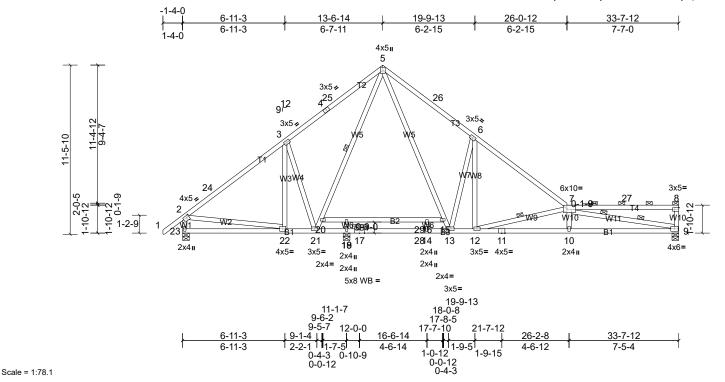


Plate Offsets (X, Y): [2:0-1-12,0-1-8], [7:0-7-0,0-2-12], [8:Edge,0-1-8]

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	0.81	Vert(LL)	-0.25	10-12	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.52	10-12	>513	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	İ				1					Weight: 234 lb	FT = 20%

BOT CHORD

WFBS

WEBS

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 2x4 SP 2400F 2.0E **BOT CHORD** WFBS 2x4 SP No.3

OTHERS 2x4 SP No 3

REACTIONS (lb/size) 9=952/0-5-8, (min. 0-1-8), 19=1186/0-5-8, (min. 0-1-8),

23=632/0-5-8, (min. 0-1-8) Max Horiz 23=248 (LC 10)

Max Uplift 23=-43 (LC 13)

Max Grav 9=1054 (LC 2), 19=1516 (LC 25), 23=771 (LC 2)

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

TOP CHORD 2-24=-760/128, 3-24=-547/172, 3-4=-536/261, 4-25=-496/279, 5-25=-491/304, 5-26=-1111/248, 6-26=-1190/223,

6-7=-1526/150, 2-23=-717/214

22-23=-252/339, 21-22=-103/548, 19-21=0/433, 17-19=0/433, 17-28=0/433, 14-28=0/433, 13-14=0/433, 12-13=-61/1135, **BOT CHORD** 11-12=-288/3479, 10-11=-288/3479, 9-10=-279/3488

WEBS 3-22=0/399, 6-12=-91/859, 7-12=-2423/235, 7-9=-3374/238, 2-22=0/354, 5-15=-49/1138, 13-15=-101/1076,

20-21=-393/1, 5-20=-650/0, 6-13=-1089/296, 3-21=-734/188, 18-19=-568/0

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) -1-3-7 2) to 2-0-15, Interior (1) 2-0-15 to 13-6-14, Exterior (2) 13-6-14 to 16-11-4, Interior (1) 16-11-4 to 33-6-0 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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. 4)
- 200.0lb AC unit load placed on the bottom chord, 13-6-14 from left end, supported at two points, 5-0-0 apart.
- 6) Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 7)
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9, 23, and 19. This connection is for uplift only and does not consider 9) lateral forces
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Type Qty Truss B09 22050131 Roof Special Structural Gable Job Reference (optional)

Carter Components - Sanford, Sanford, NC, user

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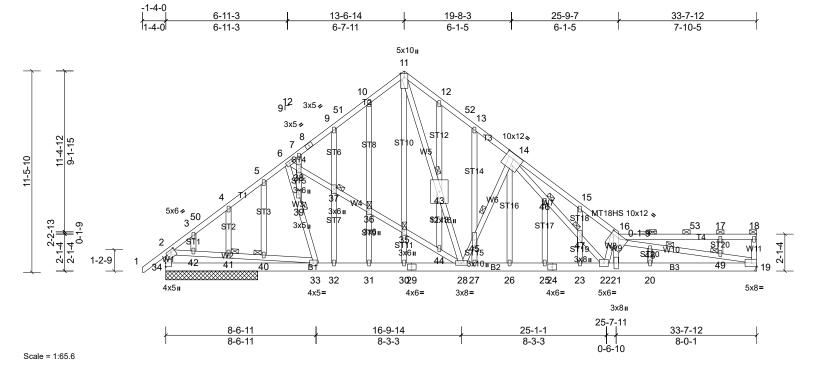


Plate Offsets (X, Y): [2:0-2-12,0-1-8], [14:0-6-0,0-3-4], [16:0-6-0,0-2-4]

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	0.92	Vert(LL)	-0.31	22-23	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.63	22-23	>634	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	19	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	İ									Weight: 336 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 2x6 SP 2400F 2.0E **BOT CHORD**

WFBS 2x4 SP No.3 *Except* W7,W8,W10:2x4 SP 2400F 2.0E

2x4 SP No 3 **OTHERS**

REACTIONS (lb/size) 19=1196/ Mechanical, (min. 0-1-8), 34=1208/5-2-12, (min.

0-1-8)

Max Horiz 34=248 (LC 10)

Max Uplift 19=-5 (LC 14)

Max Grav 19=1332 (LC 2), 34=1422 (LC 2)

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

TOP CHORD 2-3=-1711/166, 3-50=-1617/152, 4-50=-1579/162, 4-5=-1627/219, 5-6=-1460/205, 6-7=-1328/210, 7-8=-1217/176,

8-9=-1170/189, 9-51=-1199/231, 10-51=-1170/239, 10-11=-1185/291, 11-12=-1624/381, 12-52=-1609/333, 13-52=-1637/325, 13-14=-1675/277, 14-15=-4229/551, 15-16=-4274/475, 2-34=-1325/242

33-34=-214/497, 32-33=-117/1256, 31-32=-117/1256, 30-31=-117/1256, 29-30=-117/1256, 28-29=-117/1256

27-28=-163/1755, 26-27=-163/1755, 25-26=-164/1757, 24-25=-164/1757, 23-24=-164/1757, 22-23=-164/1757,

21-22=-497/4450, 20-21=-491/4377, 19-20=-491/4377

WEBS 6-38=-479/146, 37-38=-436/122, 36-37=-461/133, 35-36=-468/140, 35-44=-442/122, 28-44=-480/144, 11-43=-269/1228,

28-43=-254/1191, 28-45=-1173/220, 14-45=-999/185, 14-46=-347/2732, 46-47=-313/2429, 22-47=-309/2440, 16-22=-2772/327, 16-48=-4369/486, 48-49=-4297/464, 19-49=-4391/491, 2-42=0/918, 41-42=0/921, 40-41=0/913,

33-40=0/930, 11-35=-89/342, 30-35=-55/290, 25-46=-43/386, 20-48=-335/98, 17-49=-409/113, 16-21=-83/882

NOTES

FORCES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) -1-3-7 2) to 2-0-15, Interior (1) 2-0-15 to 13-6-14, Exterior (2) 13-6-14 to 16-11-4, Interior (1) 16-11-4 to 33-6-0 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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)
- Provide adequate drainage to prevent water ponding. 6)
- All plates are MT20 plates unless otherwise indicated. 7)
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.

TOP CHORD

BOT CHORD WFBS

JOINTS

1 Brace at Jt(s): 18, 35, 36, 37, 39, 40, 41, 43, 46, 47, 49

1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be

14-28, 16-49

Structural wood sheathing directly applied or 2-7-5 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 16-18.

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

installed during truss erection, in accordance with Stabilizer Installation guide.

Job	Truss	Truss Type	Qty	Ply	
22050131	B09	Roof Special Structural Gable	1	1	Job Reference (optional)

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- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 19.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 34. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	C01	Roof Special	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:21

Page: 1

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

except end verticals, and 2-0-0 oc purlins (4-5-14 max.): 5-7.

installed during truss erection, in accordance with Stabilizer

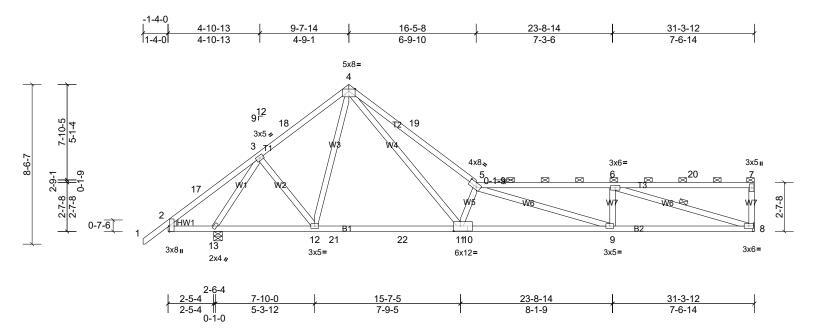
MiTek recommends that Stabilizers and required cross bracing be

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

6-0-0 oc bracing: 2-13.

1 Row at midpt

Installation guide.



Scale = 1:61.5

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

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	0.74	Vert(LL)	-0.22	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.47	9-11	>730	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 173 lb	FT = 20%

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP 2400F 2.0E *Except* T1:2x4 SP No.2 2x4 SP 2400F 2.0E **BOT CHORD**

WFBS 2x4 SP 2400F 2.0E **BOT CHORD** WEDGE Left: 2x4 SP No.3

WFBS REACTIONS (lb/size) 8=1069/ Mechanical, (min. 0-1-8), 13=1250/0-5-8, (min. 0-1-8)

Max Horiz 13=184 (LC 12)

Max Uplift 8=-27 (LC 14)

Max Grav 8=1133 (LC 2), 13=1437 (LC 2)

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

TOP CHORD 2-17=-189/266, 3-17=-165/361, 3-18=-1039/146, 4-18=-940/176, 4-19=-3324/437, 5-19=-3458/412, 5-6=-2829/311 **BOT CHORD** 12-13=-113/650, 12-21=-82/803, 21-22=-82/803, 11-22=-82/803, 10-11=-418/3446, 9-10=-418/3446, 8-9=-349/2828 **WEBS**

 $6-8 = -2878/331,\ 4-11 = -334/3004,\ 5-11 = -2340/381,\ 5-9 = -750/72,\ 6-9 = 0/386,\ 3-12 = 0/351,\ 3-13 = -1500/293$

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) -1-3-7 to 1-10-3, Interior (1) 1-10-3 to 9-7-14, Exterior (2) 9-7-14 to 12-9-7, Interior (1) 12-9-7 to 31-2-0 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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.
- Provide adequate drainage to prevent water ponding.
- 6) * 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) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 8. 8)
- One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces. 91
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10)
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	C02	Roof Special	1	1	Job Reference (optional)

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

except end verticals, and 2-0-0 oc purlins (4-8-10 max.): 5-7.

installed during truss erection, in accordance with Stabilizer

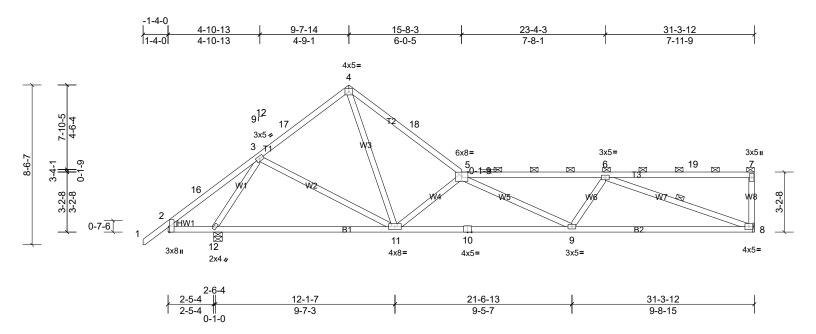
6-8 MiTek recommends that Stabilizers and required cross bracing be

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

1 Row at midpt

Installation guide

Page: 1



Scale = 1:61.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.17	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.39	9-11	>890	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 169 lb	FT = 20%

BOT CHORD

WFBS

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP 2400F 2.0E

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

WEDGE Left: 2x4 SP No.3

REACTIONS (lb/size) 8=1073/ Mechanical, (min. 0-1-8), 12=1254/0-5-8, (min. 0-1-11) Max Horiz 12=190 (LC 12)

Max Uplift 8=-29 (LC 14)

Max Grav 8=1133 (LC 2), 12=1437 (LC 2)

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

TOP CHORD 2-16=-231/254, 3-16=-219/300, 3-17=-1132/152, 4-17=-1045/183, 4-18=-1582/219, 5-18=-1693/196, 5-6=-2506/247 **BOT CHORD** 2-12=-175/288, 11-12=-145/587, 10-11=-376/2720, 9-10=-376/2720, 8-9=-335/2319

WEBS 4-11=-113/1335, 5-11=-1907/322, 5-9=-273/99, 6-9=0/378, 6-8=-2401/329, 3-11=-13/320, 3-12=-1394/377

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) -1-3-7 to 1-10-3, Interior (1) 1-10-3 to 9-7-14, Exterior (2) 9-7-14 to 12-9-7, Interior (1) 12-9-7 to 31-2-0 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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.
- Provide adequate drainage to prevent water ponding.
- 6) * 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
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 8. 8)
- One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10)
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	C03	Roof Special	1	1	Job Reference (optional)

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

8-10

MiTek recommends that Stabilizers and required cross bracing be

except end verticals, and 2-0-0 oc purlins (3-6-1 max.): 5-9.

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

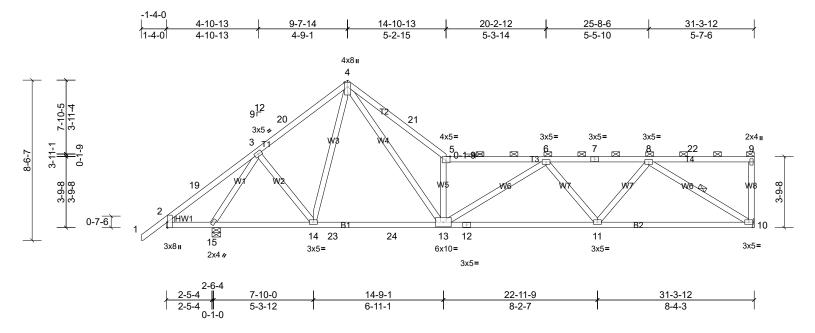
installed during truss erection, in accordance with Stabilizer

6-0-0 oc bracing: 2-15.

1 Row at midpt

Installation guide.

Page: 1



Scale = 1:61.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.17	13-14	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.36	11-13	>966	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	ĺ									Weight: 181 lb	FT = 20%

BOT CHORD

WFBS

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

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

WEBS 2x4 SP No.3 *Except* W4:2x4 SP 2400F 2.0E

WEDGE Left: 2x4 SP No.3

REACTIONS (lb/size) 10=1076/ Mechanical, (min. 0-1-8), 15=1258/0-5-8, (min.

0-1-11)

Max Horiz 15=197 (LC 12)

Max Uplift 10=-31 (LC 14)

Max Grav 10=1133 (LC 2), 15=1437 (LC 2)

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

TOP CHORD 2-19=-186/256, 3-19=-172/359, 3-20=-1036/145, 4-20=-946/176, 4-21=-2741/394, 5-21=-2834/371, 5-6=-2262/252, 6-7=-1903/211, 7-8=-1903/211

BOT CHORD 2-15=-220/253, 14-15=-168/642, 14-23=-131/790, 23-24=-131/790, 13-24=-131/790, 12-13=-322/2205, 11-12=-322/2205,

10-11=-239/1460

WEBS 4-13=-322/2483, 5-13=-1947/332, 3-14=0/329, 3-15=-1493/307, 6-11=-491/137, 8-11=0/719, 8-10=-1696/249

NOTES

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

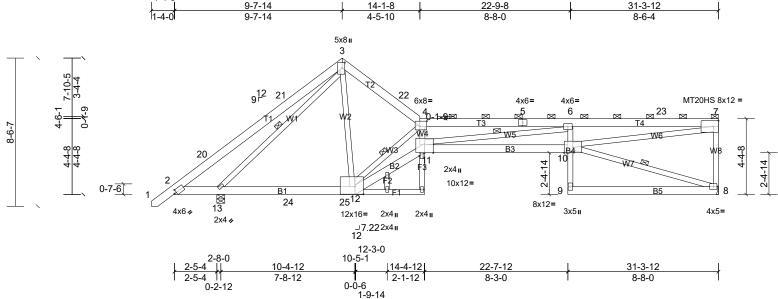
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) -1-3-7 to 1-10-3, Interior (1) 1-10-3 to 9-7-14, Exterior (2) 9-7-14 to 12-9-7, Interior (1) 12-9-7 to 31-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) 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.
- Provide adequate drainage to prevent water ponding.
- 6) All plates are 3x5 MT20 unless otherwise indicated.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 10.
- 10) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	C04	Roof Special	1	1	Job Reference (optional)

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Page: 1

-1-4-0 22-9-8



Scale = 1:66.3

Plate Offsets (X, Y): [2:0-1-10,0-2-3], [3:0-3-12,0-1-12], [4:0-4-12,0-3-8], [11:0-2-1,0-0-8], [12:0-5-12,0-5-4]

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	0.38	Vert(LL)	-0.39	10-11	>874	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.81	10-11	>423	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.43	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 253 lb	FT = 20%

LUMBER **BRACING** TOP CHORD 2x6 SP 2400F 2.0E

BOT CHORD 2x6 SP 2400F 2.0E *Except* B4:2x4 SP 2400F 2.0E, F1:2x4 SP No.3

WFBS 2x4 SP 2400F 2.0E *Except* F3,F2:2x4 SP No.3

REACTIONS (lb/size) 8=1079/ Mechanical, (min. 0-1-8), 13=1257/0-5-8, (min. 0-1-8)

Max Horiz 13=198 (LC 12) Max Uplift 8=-33 (LC 14)

Max Grav 8=1133 (LC 2), 13=1429 (LC 2)

TOP CHORD

WFBS

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-13.

1 Row at midpt

4-12, 6-11, 8-10, 3-13

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-4 max.): 4-7.

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

TOP CHORD 2-20=-327/439, 3-21=-154/266, 3-22=-1092/198, 4-22=-1223/175, 4-5=-4987/680, 5-6=-4987/680, 6-23=-4904/750,

7-23=-4904/750, 7-8=-1013/214

BOT CHORD 13-24=-163/824, 24-25=-163/824, 12-25=-163/824, 11-12=-813/5259, 10-11=-828/5283, 6-10=-481/197 **WEBS** 3-12=-83/1169, 4-12=-5175/754, 4-11=-333/2756, 6-11=-652/186, 7-10=-788/4908, 3-13=-1289/235

NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; 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 (2) -1-1-12 to 1-11-13, Interior (1) 1-11-13 to 9-7-14, Exterior (2) 9-7-14 to 12-9-7, Interior (1) 12-9-7 to 31-2-0 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) 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) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 6)
- * 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 7) any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 8.
- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11)
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	C05	Roof Special Girder	1	2	Job Reference (optional)

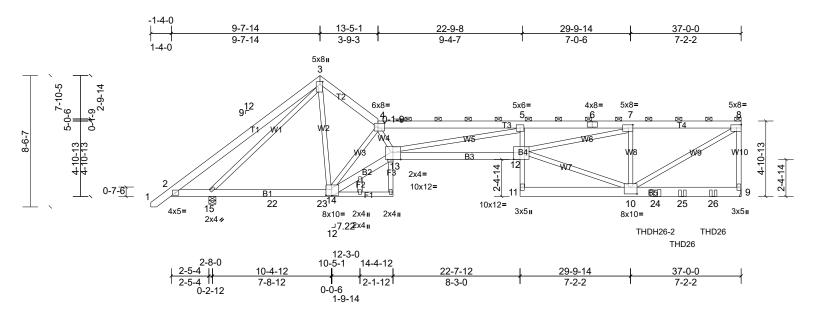
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Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.

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

Page: 1



Scale = 1:74.8

Plate Offsets (X, Y): [3:0-2-0,0-2-0], [4:0-5-0,0-3-8], [7:0-3-8,0-2-8], [10:0-5-0,0-5-4], [12:0-8-8,0-7-4], [13:0-6-0,Edge], [13:0-2-4,0-1-0], [14:0-4-4,0-4-8]

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15	_	0.62	DEFL Vert(LL)	in -0.36	(loc) 12	l/defl >999		PLATES MT20	GRIP 244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL		BC	0.62	Vert(CT)	-0.36	12-13	>580	180	WITZU	244/190
TCDL	10.0	Rep Stress Incr		WB	0.85	Horz(CT)	0.30	9	n/a	n/a		
BCLL BCDL	0.0 <i>*</i> 10.0	Code	IRC2015/TPI2014	IVIALIIX-IVISH							Weight: 612 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER **BRACING**

TOP CHORD 2x6 SP 2400F 2.0E **BOT CHORD** 2x6 SP 2400F 2.0E *Except* B4:2x4 SP 2400F 2.0E, B5:2x8 SP 2400F

2.0E, F1:2x4 SP No.3 2x4 SP 2400F 2.0E *Except* W10,W1,F3,F2:2x4 SP No.3

REACTIONS (lb/size)

9=4119/ Mechanical, (min. 0-1-8), 15=1939/0-5-8, (min. 0-1-8) Max Horiz 15=202 (LC 8)

Max Uplift 9=-202 (LC 10)

Max Grav 9=4252 (LC 2), 15=2134 (LC 2)

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

TOP CHORD 2-3=-271/405, 3-4=-2277/101, 4-5=-7818/253, 5-6=-11487/487, 6-7=-11487/487, 7-8=-5181/205, 8-9=-3365/177 **BOT CHORD** 15-22=-76/1507, 22-23=-76/1507, 14-23=-76/1507, 13-14=-282/6800, 12-13=-522/11745, 5-12=0/668

WEBS 3-14=-46/2533, 4-14=-7205/306, 4-13=-118/4673, 5-13=-4128/285, 10-12=-233/5273, 7-12=-291/6501, 7-10=-2107/185,

8-10=-254/6028, 3-15=-2114/22

NOTES

WFBS

- 2-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, 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc, 2x8 2 rows staggered at 0-4-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 4) exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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.
- Provide adequate drainage to prevent water ponding. 7)
- 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 9.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces. 11)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	C05	Roof Special Girder	1	2	Job Reference (optional)

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- 14) Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 31-5-4 from the left end to connect truss(es) D07 (2 ply 2x6 SP) to back face of bottom chord.
- Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 33-2-4 from the left end to 35-2-4 to connect truss(es) D06 (1 ply 2x4 SP) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-48, 3-4=-48, 4-8=-58, 14-19=-20, 13-14=-20, 12-13=-20, 9-11=-20

Concentrated Loads (lb)

Vert: 24=-2615 (B), 25=-329 (B), 26=-329 (B)

Job	Truss	Truss Type	Qty	Ply	
22050131	D01	Roof Special Structural Gable	1	1	Job Reference (optional)

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Structural wood sheathing directly applied or 4-9-6 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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

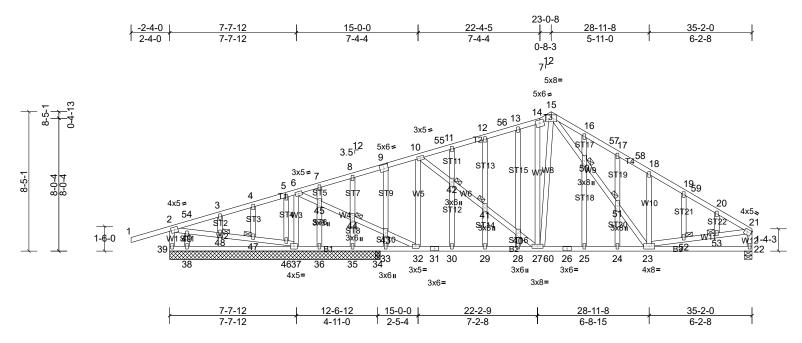
except end verticals.

48, 50, 51, 52, 53

Installation guide.

1 Brace at Jt(s): 41, 42, 44, 47,

Page: 1



Scale = 1:69.6

Plate Offsets (X, Y): [9:0-3-0,0-3-0], [21:Edge,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.10	29-30	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.20	29-30	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 295 lb	FT = 20%

BOT CHORD

JOINTS

LUMBER **BRACING** TOP CHORD

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

2x4 SP No.3

REACTIONS All bearings 12-8-8. except 22=0-5-8, 34=0-3-8 (lb) - Max Horiz 39=185 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s) 35, 36, 37 except 39=-139 (IC 42)

Max Grav All reactions 250 (lb) or less at joint(s) 35, 36, 39 except 22=983 (LC 2), 34=338 (LC 2), 37=1266 (LC 2), 38=438 (LC 2)

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

2-54=-72/355, 3-54=-68/394, 3-4=-52/400, 4-5=-40/428, 5-6=-31/406, 6-7=-744/87, 7-8=-735/97, 8-9=-728/115, TOP CHORD

9-10=-729/132, 10-55=-889/144, 11-55=-858/150, 11-12=-868/166, 12-56=-850/179, 13-56=-832/183, 13-14=-852/200,

14-15=-926/212, 15-16=-1167/291, 16-57=-1167/247, 17-57=-1188/239, 17-58=-1225/232, 18-58=-1250/221, 18-19=-1138/147, 19-59=-1171/129, 20-59=-1211/124, 20-21=-1255/107, 21-22=-922/128

36-37=-400/133, 35-36=-400/133, 34-35=-400/133, 33-34=-400/133, 32-33=-400/133, 31-32=0/686, 30-31=0/686,

29-30=0/686, 28-29=0/686, 27-28=0/686, 27-60=0/768, 26-60=0/768, 25-26=0/768, 24-25=0/768, 23-24=0/768 WFBS

6-37=-950/148, 6-45=-93/1180, 44-45=-94/1176, 43-44=-91/1155, 32-43=-95/1200, 10-32=-377/54, 14-27=-297/45, 15-27=-73/583, 15-50=-133/490, 50-51=-127/469, 23-51=-125/472, 18-23=-375/155, 2-49=-402/138, 48-49=-353/121,

47-48=-366/126, 46-47=-370/127, 37-46=-410/134, 23-52=-9/865, 52-53=-11/860, 21-53=-14/867, 38-49=-280/99

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 2) -2-3-12 to 1-2-7, Interior (1) 1-2-7 to 23-0-8, Exterior (2) 23-0-8 to 26-6-11, Interior (1) 26-6-11 to 35-0-4 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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. 7)
- 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, with BCDL = 10.0psf.

Job	Truss	Truss Type	Qty	Ply	
22050131	D01	Roof Special Structural Gable	1	1	Job Reference (optional)

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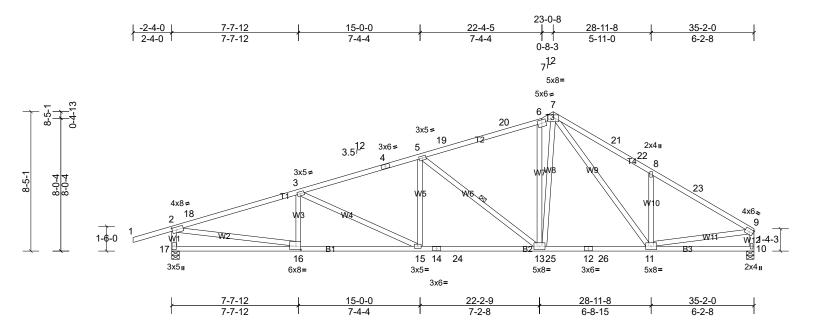
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 39, 37, 22, 35, 36, and 38. This connection is for uplift only and does not consider lateral forces.
 One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 34. This connection is for uplift only and does not consider lateral forces.
 This truss is designed in accordance with the 2015 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	
22050131	D02	Roof Special	6	1	Job Reference (optional)

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Scale = 1:69.6

NOTES

Plate Offsets (X, Y): [2:0-3-1,0-2-0], [16:0-3-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.15	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.33	15-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 216 lb	FT = 20%

LUMBER **BRACING**

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

WFBS 2x4 SP No 3

REACTIONS (lb/size) 10=1177/0-5-8, (min. 0-1-10), 17=1302/0-5-8, (min. 0-1-13)

Max Horiz 17=185 (LC 14) Max Uplift 17=-93 (LC 11)

Max Grav 10=1390 (LC 2), 17=1548 (LC 2)

TOP CHORD

WFBS

BOT CHORD

except end verticals.

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

Structural wood sheathing directly applied or 2-10-13 oc purlins,

6-0-0 oc bracing: 16-17.

1 Row at midpt 5-13

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

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

TOP CHORD 2-18=-2608/213, 3-18=-2542/236, 3-4=-2335/247, 4-5=-2224/260, 5-19=-1614/219, 19-20=-1544/230, 6-20=-1526/241,

6-7=-1694/287, 7-21=-1789/332, 21-22=-1813/311, 8-22=-1885/300, 8-23=-1775/199, 9-23=-1881/178, 2-17=-1472/313,

9-10=-1329/164

15-16=-186/2440, 14-15=-138/2186, 14-24=-138/2186, 13-24=-138/2186, 13-25=-33/1364, 12-25=-33/1364, **BOT CHORD**

12-26=-33/1364, 11-26=-33/1364

WEBS 3-15=-326/52, 5-15=0/303, 5-13=-912/119, 6-13=-579/141, 7-13=-133/1284, 7-11=-130/408, 8-11=-400/201,

2-16=-190/2306, 9-11=-72/1443

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 2) -2-3-12 to 1-2-7, Interior (1) 1-2-7 to 23-0-8, Exterior (2) 23-0-8 to 26-6-11, Interior (1) 26-6-11 to 35-0-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 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 6) any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 10. This connection is for uplift only and does not consider lateral 7) forces
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	D03	Roof Special	4	1	Job Reference (optional)

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Structural wood sheathing directly applied or 3-3-5 oc purlins,

installed during truss erection, in accordance with Stabilizer

Installation guide

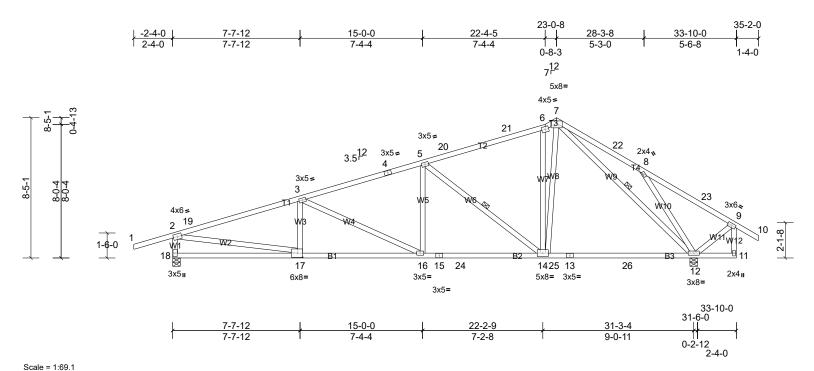


Plate Offsets (X, Y): [17:0-3-8,0-3-0]

						-						_
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	0.70	Vert(LL)	-0.19	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.36	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.06	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 215 lb	FT = 20%

TOP CHORD

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2

2x4 SP No.2 **BOT CHORD** except end verticals.

WFBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 5-14, 7-12

WFBS 1 Row at midpt REACTIONS (lb/size) 12=1291/0-5-8, (min. 0-1-13), 18=1166/0-5-8, (min. 0-1-10) MiTek recommends that Stabilizers and required cross bracing be

Max Horiz 18=199 (LC 14)

Max Uplift 18=-97 (LC 11)

Max Grav 12=1531 (LC 2), 18=1387 (LC 2)

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

2-19=-2244/160, 3-19=-2179/183, 3-4=-1887/200, 4-5=-1776/213, 5-20=-1137/164, 20-21=-1072/175, 6-21=-1058/186,

6-7=-1198/232, 7-22=-500/307, 8-22=-529/279, 2-18=-1313/294

16-17=-131/2092, 15-16=-74/1755, 15-24=-74/1755, 14-24=-74/1755, 14-25=0/910, 13-25=0/910, 13-26=0/910, **BOT CHORD**

3-16=-390/63, 5-16=0/314, 5-14=-934/132, 6-14=-529/131, 7-14=-109/1281, 7-12=-999/0, 8-12=-710/320,

2-17=-153/1962

NOTES

WEBS

FORCES

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) 2) -2-3-12 to 1-0-14, Interior (1) 1-0-14 to 23-0-8, Exterior (2) 23-0-8 to 26-5-2, Interior (1) 26-5-2 to 35-1-8 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 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 any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
- One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI1.

Job	Truss	Truss Type	Qty	Ply	
22050131	D04	Roof Special	2	1	Job Reference (optional)

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Structural wood sheathing directly applied or 4-0-9 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

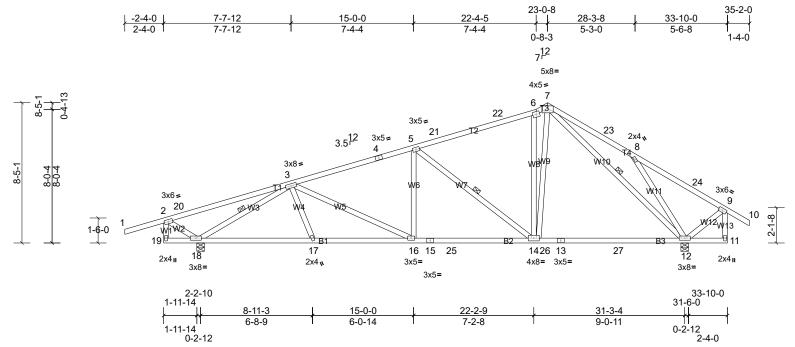
3-18, 5-14, 7-12

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

except end verticals.

1 Row at midpt

Installation guide.



Scale = 1:69.1

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	0.69	Vert(LL)	-0.19	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.34	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.06	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 217 lb	FT = 20%

BOT CHORD

WEBS

BRACING LUMBER TOP CHORD

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

WEBS 2x4 SP No.3

REACTIONS (lb/size) 12=1219/0-5-8, (min. 0-1-11), 18=1239/0-5-8, (min. 0-1-12)

Max Horiz 18=199 (LC 14)

Max Uplift 18=-138 (LC 11)

Max Grav 12=1445 (LC 2), 18=1473 (LC 2)

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

TOP CHORD 2-20=-270/285, 3-20=-266/363, 3-4=-1622/147, 4-5=-1510/164, 5-21=-1036/141, 21-22=-977/153, 6-22=-963/164,

6-7=-1090/208, 7-23=-499/307, 8-23=-528/279

BOT CHORD 17-18=-85/1469, 16-17=-51/1518, 15-16=-47/1500, 15-25=-47/1500, 14-25=-47/1500, 14-26=0/829, 13-26=0/829,

13-27=0/829, 12-27=0/829 **WEBS**

3-18=-2056/355, 5-14=-745/113, 6-14=-510/128, 7-14=-93/1160, 7-12=-897/0, 8-12=-710/320, 2-18=-439/333

NOTES

FORCES

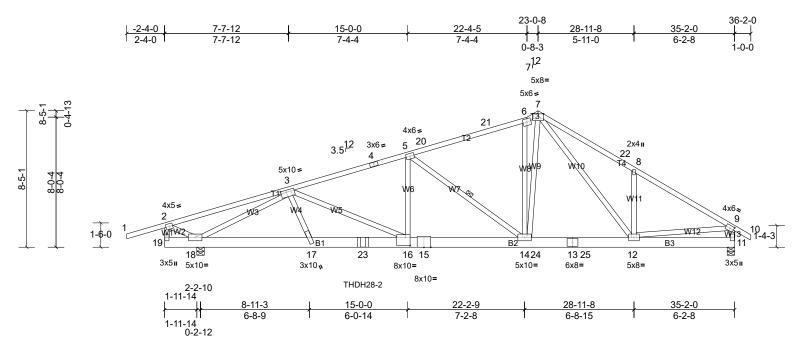
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 2) -2-3-12 to 1-0-14, Interior (1) 1-0-14 to 23-0-8, Exterior (2) 23-0-8 to 26-5-2, Interior (1) 26-5-2 to 35-1-8 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design. 4)
 - 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.
- One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 12. This connection is for uplift only and does not consider lateral 7)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	D05	Roof Special Girder	1	2	Job Reference (optional)

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5-14



Scale = 1:71.1

Plate Offsets (X, Y): [3:0-4-0,0-1-8], [9:0-2-14,0-2-0], [16:0-3-8,0-6-0]

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	0.81	Vert(LL)	-0.19	16-17	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.39	16-17	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.05	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 543 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins,

2x8 SP 2400F 2.0E **BOT CHORD** except end verticals.

2x4 SP No.3 *Except* W3:2x4 SP 2400F 2.0E WFBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19.

REACTIONS (lb/size) 11=2478/0-5-8, (min. 0-1-8), 18=4153/0-5-8, (min. 0-1-14) WFBS 1 Row at midpt Max Horiz 18=184 (LC 10)

Max Uplift 11=-50 (LC 12), 18=-271 (LC 7)

Max Grav 11=2736 (LC 2), 18=4500 (LC 2)

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

3-4=-7620/310, 4-5=-7509/332, 5-20=-3849/144, 20-21=-3777/156, 6-21=-3765/167, 6-7=-4071/218, 7-22=-3776/195,

8-22=-3861/163, 8-9=-3884/101, 2-19=-335/0, 9-11=-2613/77

17-18=-336/7570, 17-23=-342/8413, 16-23=-342/8413, 15-16=-264/7260, 14-15=-264/7260, 14-24=-28/3276, **BOT CHORD** 13-24=-28/3276, 13-25=-28/3276, 12-25=-28/3276, 11-12=-51/435

3-18=-8518/434, 3-17=-29/2273, 3-16=-1322/107, 5-16=-104/3332, 5-14=-4582/274, 6-14=-975/127, 7-14=-189/3563,

8-12=-352/171, 9-12=-5/2869

NOTES

WEBS

TOP CHORD

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc
 - Bottom chords connected as follows: 2x8 3 rows staggered at 0-4-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD 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.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 4) exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 5) DOL=1.15); Category II; Exp B; Fully 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 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 any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 11. This connection is for uplift only and does not consider lateral 9) forces
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use MiTek THDH28-2 (With 36-16d nails into Girder & 10-16d nails into Truss) or equivalent at 12-2-14 from the left end to connect truss(es) C05 (2 ply 2x8 SP) to front face of
- Fill all nail holes where hanger is in contact with lumber.

Job	Truss	Truss Type	Qty	Ply	
22050131	D05	Roof Special Girder	1	2	Job Reference (optional)

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LOAD CASE(S) Standard

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

Vert: 1-2=-48, 2-6=-48, 6-7=-48, 7-9=-48, 9-10=-48, 11-19=-20

Concentrated Loads (lb) Vert: 23=-4099 (F)



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

installed during truss erection, in accordance with Stabilizer

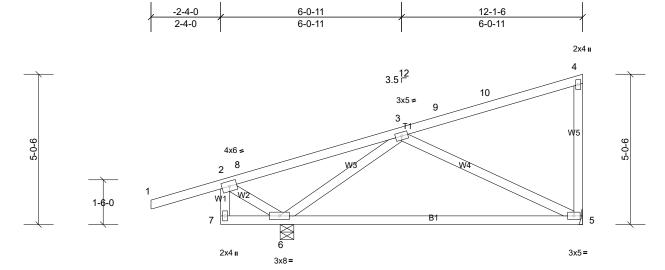
MiTek recommends that Stabilizers and required cross bracing be

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

except end verticals.

Installation guide.

Page: 1





Scale = 1:38.6

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	0.54	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.25	5-6	>478	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 68 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

REACTIONS (lb/size) 5=289/ Mechanical, (min. 0-1-8), 6=629/0-5-8, (min. 0-1-8)

Max Horiz 6=154 (LC 12)

Max Uplift 5=-19 (LC 15), 6=-137 (LC 11)

Max Grav 5=349 (LC 22), 6=755 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-332/235, 3-8=-330/315

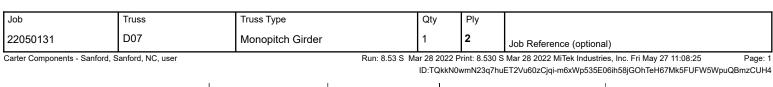
BOT CHORD 5-6=-185/286

WEBS 3-6=-608/375, 2-6=-261/381

NOTES

Wind: ASCE 7-10; 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 (2) -2-3-12 to 0-8-4, Interior (1) 0-8-4 to 11-11-10 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=1.33

- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) 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 any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 5.
- 8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



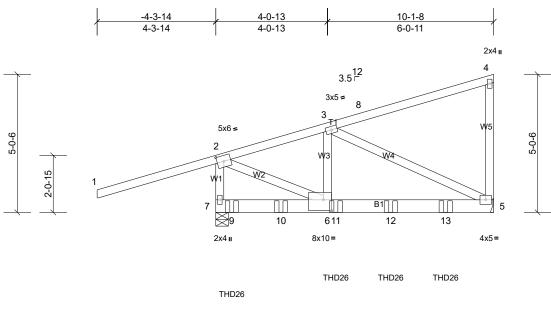


Plate Offsets (X, Y): [2:0-2-15,0-2-8], [6:0-3-8,0-4-12]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.06	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.13	5-6	>909	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 147 lb	FT = 20%

THD26

10-1-8

6-0-11

4-0-13

4-0-13

LUMBER BRACING

TOP CHORD 2x4 SP 2400F 2.0E TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x6 SP 2400F 2.0E except end verticals.

WEBS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 5=2576/ Mechanical, (min. 0-1-8), 7=3677/0-5-8, (min. 0-1-11)

Max Horiz 7=153 (LC 8)

Max Uplift 5=-106 (LC 11), 7=-239 (LC 7) Max Grav 5=2750 (LC 2), 7=4044 (LC 2)

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

TOP CHORD 2-3=-3240/107, 2-7=-2735/246

BOT CHORD 6-11=-146/3055, 11-12=-146/3055, 12-13=-146/3055, 5-13=-146/3055

WEBS 3-6=-42/2148, 3-5=-3324/132, 2-6=-103/3399

NOTES

Scale = 1:42

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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.
- 3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 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.
- *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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 5.
- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-6-14 from the left end to 10-4-6 to connect truss(es) B09 (1 ply 2x6 SP), C01 (1 ply 2x4 SP), C02 (1 ply 2x4 SP), C03 (1 ply 2x4 SP), C04 (1 ply 2x6 SP) to front face of bottom chord.
- 3) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Job	Truss	Truss Type	Qty	Ply	
22050131	D07	Monopitch Girder	1	2	Job Reference (optional)

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Vert: 1-2=-46, 2-4=-46, 5-7=-19

Concentrated Loads (lb)

Vert: 9=-1182 (F), 10=-1050 (F), 11=-1053 (F), 12=-1057 (F), 13=-1060 (F)

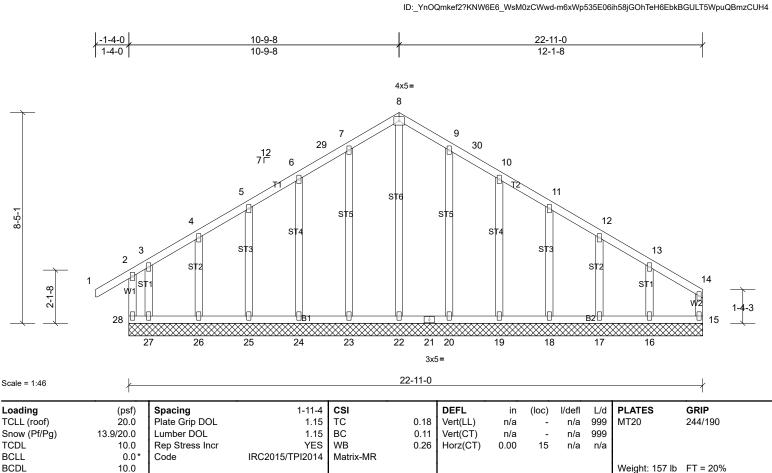


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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



BRACING

TOP CHORD

BOT CHORD

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

2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS All bearings 22-11-0.

(lb) - Max Horiz 28=-179 (LC 13)

Max Uplift All uplift 100 (lb) or less at joint(s) 15, 16, 17, 18, 19, 20, 23,

24, 25, 26 except 27=-193 (LC 12), 28=-192 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 15, 16, 17, 18, 19, 20,

22, 23, 24, 25, 26, 27 except 28=269 (LC 30)

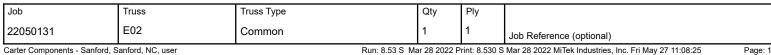
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 7-8=-224/265, 8-9=-224/265

NOTES

LUMBER

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; 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 (3) -1-3-8 2) to 1-8-8, Exterior (2) 1-8-8 to 10-9-8, Corner (3) 10-9-8 to 13-9-8, Exterior (2) 13-9-8 to 22-9-4 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 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)
- 8) 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 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 23, 24, 25, 26, 20, 19, 18, 17, 16 except (jt=lb) 28=192, 27 = 193.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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22-11-0

7-8-13

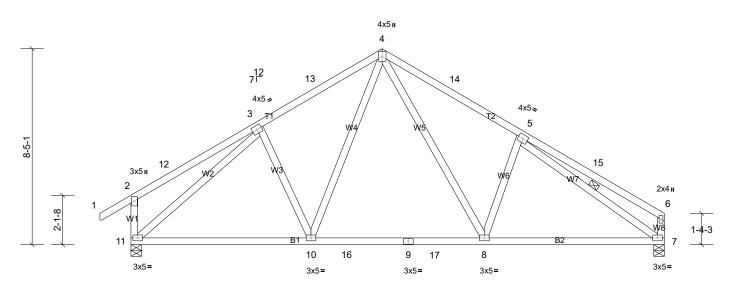
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

1 Row at midpt

Structural wood sheathing directly applied or 5-2-11 oc purlins,

22-11-0 -1-4-0 5-6-8 10-9-8 1-4-0 5-6-8 5-3-0 5-11-0 6-2-8



												_
Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.14	8-10	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.19	8-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	[Weight: 141 lb	FT = 20%

15-2-3

7-5-5

BRACING

TOP CHORD

BOT CHORD

WEBS

LUMBER TOP CHORD

Scale = 1:49.5

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

BOT CHORD WEBS 2x4 SP No.3

REACTIONS (lb/size) 7=740/0-5-8, (min. 0-1-8), 11=811/0-5-8, (min. 0-1-8)

Max Horiz 11=-179 (LC 13)

Max Uplift 11=-2 (LC 15)

Max Grav 7=874 (LC 2), 11=963 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 3-13=-901/178, 4-13=-829/194, 4-14=-965/222, 5-14=-1048/193, 2-11=-271/151 TOP CHORD **BOT CHORD** 10-11=-68/813, 10-16=0/656, 9-16=0/656, 9-17=0/656, 8-17=0/656, 7-8=-83/878

7-8-13

7-8-13

WEBS 4-10=-36/331, 4-8=-72/486, 3-11=-941/59, 5-7=-959/73

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) -1-3-8 2) to 1-8-8, Interior (1) 1-8-8 to 10-9-8, Exterior (2) 10-9-8 to 13-9-8, Interior (1) 13-9-8 to 22-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 7. This connection is for uplift only and does not consider lateral forces
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	EJ01	Jack-Open	10	1	Job Reference (optional)

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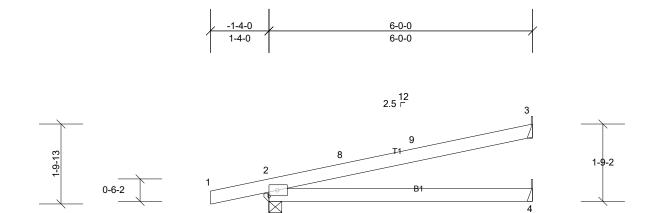
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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.

Installation guide.



One RT7A

3x5 =

6-0-0 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	0.54	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.11	4-7	>623	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 20 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

LUMBER

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

REACTIONS (lb/size) 2=271/0-3-8, (min. 0-1-8), 3=126/ Mechanical, (min. 0-1-8), 4=68/ Mechanical. (min. 0-1-8)

Max Horiz 2=44 (LC 11)

Max Uplift 2=-44 (LC 11), 3=-35 (LC 15)

Max Grav 2=325 (LC 2), 3=156 (LC 2), 4=73 (LC 2)

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

FORCES NOTES

- Wind: ASCE 7-10; 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 (2) -1-3-13 to 1-8-3, Interior (1) 1-8-3 to 5-11-4 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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 35 lb uplift at joint 3.
- One RT7A MiTek 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. 8)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)

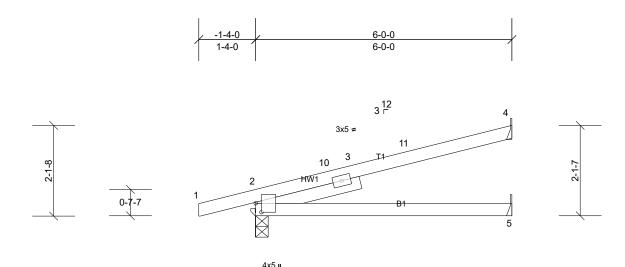
Job	Truss	Truss Type	Qty	Ply	
22050131	EJ02	Jack-Open	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:25

Page: 1 ID:ISJESDQvMppjLnqsInssF3zCphm-m6xWp535E06ih58jGOhTeH69Pk71UPV5WpuQBmzCUH4

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

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



One RT7A

6-0-0 Scale = 1:27 Plate Offsets (X, Y): [2:0-2-8,0-1-10]

		-										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.06	5-8	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.12	5-8	>610	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

BOT CHORD

LUMBER **BRACING TOP CHORD**

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

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

REACTIONS (lb/size) 2=271/0-3-8, (min. 0-1-8), 4=125/ Mechanical, (min. 0-1-8),

5=70/ Mechanical, (min. 0-1-8)

Max Horiz 2=53 (LC 11)

Max Uplift 2=-42 (LC 11), 4=-33 (LC 15)

Max Grav 2=325 (LC 2), 4=153 (LC 2), 5=75 (LC 2)

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

TOP CHORD 2-10=-251/0

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ff; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 1) -1-3-13 to 1-8-3, Interior (1) 1-8-3 to 5-11-4 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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) * 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 33 lb uplift at joint 4.
- One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	EJ05	Jack-Open	4	1	Job Reference (optional)

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

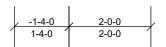
installed during truss erection, in accordance with Stabilizer

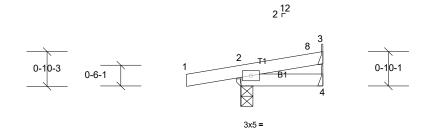
MiTek recommends that Stabilizers and required cross bracing be

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

Installation guide.

Page: 1





One RT7A

BRACING

TOP CHORD

BOT CHORD

Scale = 1:28.1

	2-0-0	
1		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	0.14	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-7	>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	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 8 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 2=151/0-3-8, (min. 0-1-8), 3=31/ Mechanical, (min. 0-1-8),

Max Horiz 2=18 (LC 11)

Max Uplift 2=-50 (LC 11), 3=-8 (LC 15)

Max Grav 2=185 (LC 2), 3=38 (LC 2), 4=17 (LC 20)

4=15/ Mechanical. (min. 0-1-8)

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

FORCES NOTES

- 1) Wind: ASCE 7-10; 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 Exterior (2) -1-3-14 to 1-8-2, Interior (1) 1-8-2 to 1-11-14 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=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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.
- 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) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 3.
- 8) One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	EJ06	Jack-Open	4	1	Job Reference (optional)

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

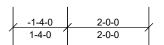
installed during truss erection, in accordance with Stabilizer

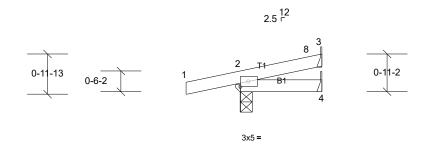
MiTek recommends that Stabilizers and required cross bracing be

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

Installation guide.

Page: 1





One RT7A

BRACING

TOP CHORD

BOT CHORD

Scale = 1:28.3

	2-0-0	
1		7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-7	>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	IRC2015/TPI2014	Matrix-MP		İ						
BCDL	10.0										Weight: 8 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size)

2=151/0-3-8, (min. 0-1-8), 3=32/ Mechanical, (min. 0-1-8),

4=15/ Mechanical. (min. 0-1-8)

Max Horiz 2=22 (LC 11)

Max Uplift 2=-49 (LC 11), 3=-9 (LC 15)

Max Grav 2=185 (LC 2), 3=39 (LC 2), 4=17 (LC 20)

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

FORCES NOTES

- Wind: ASCE 7-10; 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 (2) -1-3-13 to 1-8-3, Interior (1) 1-8-3 to 1-11-14 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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 9 lb uplift at joint 3.
- One RT7A MiTek 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. 8)
- This truss is designed in accordance with the 2015 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	
22050131	G01	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:26

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

installed during truss erection, in accordance with Stabilizer

11-29

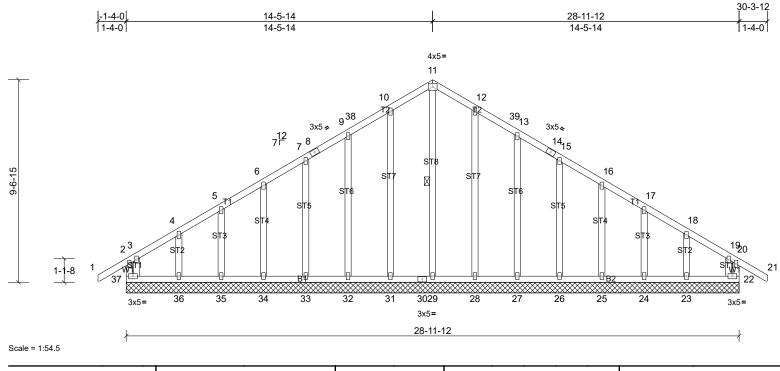
MiTek recommends that Stabilizers and required cross bracing be

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

except end verticals.

1 Row at midpt

Installation guide.



(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
3.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	22	n/a	n/a		
0.0*	Code	IRC2015/TPI2014	Matrix-MR	I							
10.0				I						Weight: 204 lb	FT = 20%
	20.0 3.9/20.0 10.0 0.0*	20.0 Plate Grip DOL 3.9/20.0 Lumber DOL 10.0 Rep Stress Incr 0.0* Code	20.0 Plate Grip DOL 1.15 3.9/20.0 Lumber DOL 1.15 10.0 Rep Stress Incr YES 0.0* Code IRC2015/TPI2014	20.0 Plate Grip DOL 1.15 TC 8.9/20.0 Lumber DOL 1.15 BC BC 10.0 Rep Stress Incr YES WB Watrix-MR	20.0 Plate Grip DOL 1.15 TC 0.18 3.9/20.0 Lumber DOL 1.15 BC 0.06 10.0 Rep Stress Incr YES WB 0.20 0.0* Code IRC2015/TPI2014 Matrix-MR	20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) 3.9/20.0 Lumber DOL 1.15 BC 0.06 Vert(CT) 10.0 Rep Stress Incr YES WB 0.20 Horz(CT) 0.0* Code IRC2015/TPI2014 Matrix-MR	20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) n/a 3.9/20.0 Lumber DOL 1.15 BC 0.06 Vert(CT) n/a 10.0 Rep Stress Incr YES WB 0.20 Horz(CT) 0.00 Code IRC2015/TPI2014 Matrix-MR	20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) n/a -	20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) n/a - n/a 3.9/20.0 Lumber DOL 1.15 BC 0.06 Vert(CT) n/a - n/a 10.0 Rep Stress Incr YES WB 0.20 Horz(CT) 0.00 22 n/a 10.0 Code IRC2015/TPI2014 Matrix-MR	20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) n/a - n/a 999 3.9/20.0 Lumber DOL 1.15 BC 0.06 Vert(CT) n/a - n/a 999 10.0 Rep Stress Incr YES WB 0.20 Horz(CT) 0.00 22 n/a n/a 10.0 Code IRC2015/TPI2014 Matrix-MR	20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) n/a - n/a 999 MT20 3.9/20.0 Lumber DOL 1.15 BC 0.06 Vert(CT) n/a - n/a 999 10.0 Rep Stress Incr YES WB 0.20 Horz(CT) 0.00 22 n/a n/a 0.0* Code IRC2015/TPI2014 Matrix-MR

BRACING

TOP CHORD

BOT CHORD

WEBS

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

2x4 SP No.3

REACTIONS All bearings 28-11-12.

(lb) - Max Horiz 37=208 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s) 22, 23, 24, 25, 26, 27, 28,

31, 32, 33, 34, 35, 36, 37

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

28, 29, 31, 32, 33, 34, 35, 36, 37

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

TOP CHORD 10-11=-260/291, 11-12=-260/291

NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; 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 (3) -1-3-8 2) to 1-8-8, Exterior (2) 1-8-8 to 14-5-14, Corner (3) 14-5-14 to 17-5-14, Exterior (2) 17-5-14 to 30-3-4 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 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)
- 8) 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 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 22, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)



Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:26 Page: 1 ID:6gEtY47maNU0gBOLLe4qWGzCWuq-EIVu0R3j?KEZIEjvq6CiBUeGT8KIDkhFITdzjCzCUH3

Structural wood sheathing directly applied or 3-4-0 oc purlins,

installed during truss erection, in accordance with Stabilizer

3-14, 7-10

MiTek recommends that Stabilizers and required cross bracing be

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

except end verticals.

1 Row at midpt

Installation guide

30-3-12 28-11-12 7-4-11 14-5-14 7-4-11 7-1-3 7-1-3 7-4-11 1-4-0

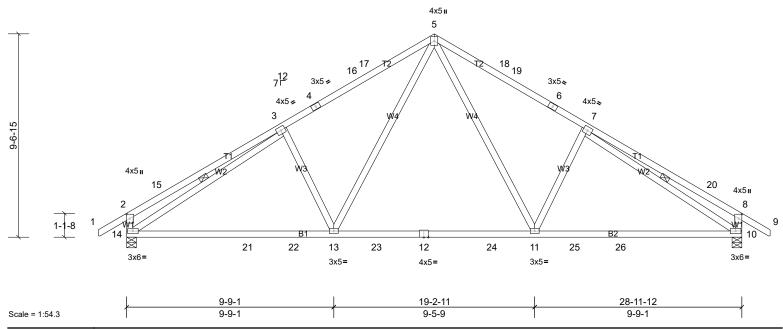


Plate Offsets (X, Y): [2:0-2-8,0-1-12], [8:0-2-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.29	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.41	11-13	>845	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 171 lb	FT = 20%

BOT CHORD

WFBS

LUMBER **BRACING** TOP CHORD

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

WFBS 2x4 SP No 3

REACTIONS (lb/size) 10=1040/0-5-8, (min. 0-1-8), 14=1040/0-5-8, (min. 0-1-8)

Max Horiz 14=208 (LC 14)

Max Uplift 10=-5 (LC 16), 14=-5 (LC 15)

Max Grav 10=1284 (LC 30), 14=1284 (LC 29)

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

2-15=-489/116, 3-15=-415/155, 3-4=-1542/216, 4-16=-1450/234, 16-17=-1442/236, 5-17=-1436/255, 5-18=-1436/255,

18-19=-1442/236, 6-19=-1451/234, 6-7=-1543/216, 7-20=-414/155, 8-20=-489/116, 2-14=-485/191, 8-10=-484/191

14-21=-63/1458, 21-22=-63/1458, 13-22=-63/1458, 13-23=0/1012, 12-23=0/1012, 12-24=0/1012, 11-24=0/1012,

11-25=-54/1324, 25-26=-54/1324, 10-26=-54/1324 **WEBS**

5-11=-62/685, 7-11=-322/196, 5-13=-62/685, 3-13=-322/196, 3-14=-1279/63, 7-10=-1279/63

NOTES

FORCES

TOP CHORD

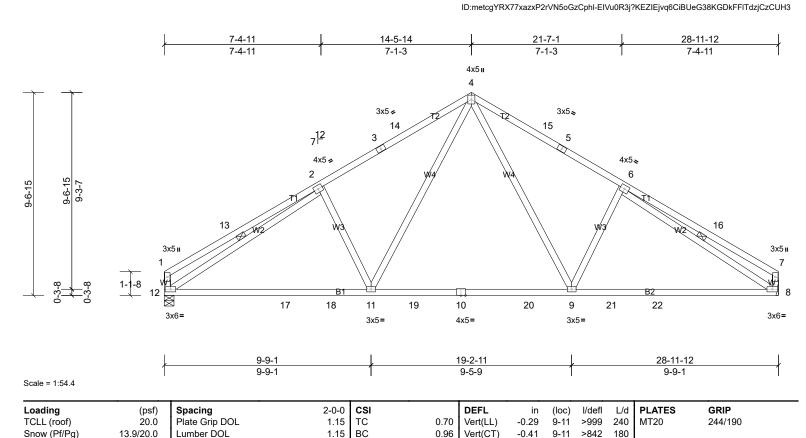
BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) -1-3-8 to 1-8-8, Interior (1) 1-8-8 to 14-5-14, Exterior (2) 14-5-14 to 17-5-14, Interior (1) 17-5-14 to 30-3-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) * 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LUMBER TOP CHORD

BOT CHORD

TCDL

BCLL

BCDL

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

2x4 SP No.3

REACTIONS (lb/size) 8=971/ Mechanical, (min. 0-1-8), 12=971/0-5-8, (min. 0-1-8)

Rep Stress Incr

Code

Max Horiz 12=191 (LC 12)

10.0

10.0

0.0*

Max Grav 8=1205 (LC 29), 12=1205 (LC 28)

BRACING

BOT CHORD

WEBS

0.54

Horz(CT)

TOP CHORD

except end verticals.

0.06

Structural wood sheathing directly applied or 3-10-3 oc purlins,

Weight: 167 lb FT = 20%

8

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

1 Row at midpt 2-12, 6-8

n/a n/a

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

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

TOP CHORD 1-13=-419/87, 2-13=-364/113, 2-3=-1557/228, 3-14=-1458/247, 4-14=-1454/267, 4-15=-1454/267, 5-15=-1458/247,

5-6=-1557/228, 6-16=-364/113, 7-16=-419/87, 1-12=-357/116, 7-8=-357/116

12-17=-112/1466, 17-18=-112/1466, 11-18=-112/1466, 11-19=0/1008, 10-19=0/1008, 10-20=0/1008, 9-20=0/1008,

YES WB

Matrix-MSH

IRC2015/TPI2014

9-21=-108/1329, 21-22=-108/1329, 8-22=-108/1329

WEBS 4-9=-66/698, 6-9=-333/200, 4-11=-66/698, 2-11=-333/200, 2-12=-1340/98, 6-8=-1340/98

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 0-1-12 2) to 3-1-12, Interior (1) 3-1-12 to 14-5-14, Exterior (2) 14-5-14 to 17-5-14, Interior (1) 17-5-14 to 28-10-0 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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6-1-2

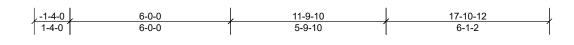
Structural wood sheathing directly applied or 2-3-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-9 max.): 3-5.

installed during truss erection, in accordance with Stabilizer

4-6

MiTek recommends that Stabilizers and required cross bracing be

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



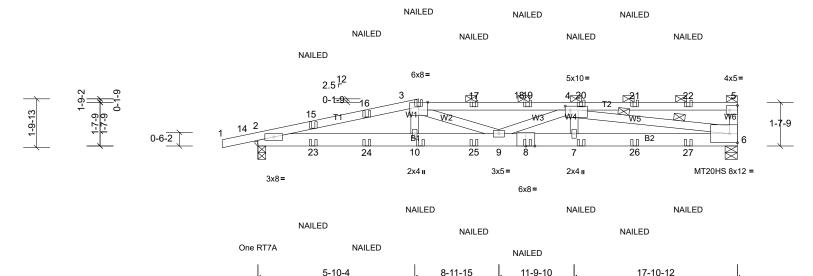


Plate Offsets (X, Y): [4:0-2-4,0-1-12], [5:Edge,0-2-0]

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	0.79	Vert(LL)	-0.21	7-9	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.42	7-9	>508	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		i						
BCDL	10.0	1				I					Weight: 92 lb	FT = 20%

3-1-11

2-9-11

2 Rows at 1/3 pts

Installation guide

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2 *Except* T2:2x4 SP 2400F 2.0E
 TOP CHORD

TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* W6:2x4 SP 2400F 2.0E BOT CHORD

VEBS 2X4 SP N0.3 "Except" W0:2X4 SP 2400F 2.0E BOT CHOR

REACTIONS (lb/size) 2=1358/0-3-8, (min. 0-1-8), 6=1304/0-5-8, (min. 0-1-8)

Max Horiz 2=40 (LC 10) Max Uplift 2=-3 (LC 7), 6=-4 (LC 7) Max Grav 2=1416 (LC 29), 6=1353 (LC 30)

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

2-15=-4249/0, 15-16=-4205/0, 3-16=-4198/0, 3-17=-4495/0, 17-18=-4496/0, 18-19=-4497/0, 4-19=-4499/0, 4-20=-432/22,

5-10-4

20-21=-432/22, 21-22=-432/22, 5-22=-432/22, 5-6=-315/61

BOT CHORD 2-23=0/4127, 23-24=0/4127, 10-24=0/4127, 10-25=0/4102, 9-25=0/4102, 8-9=-13/4369, 7-8=-13/4369, 7-26=0/4364,

26-27=0/4364, 6-27=0/4364

WEBS 3-9=-38/484, 4-6=-4012/0, 3-10=0/253

NOTES

FORCES

TOP CHORD

Scale = 1:43

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated
- * 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 and 2. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-48, 3-5=-58, 6-11=-20

Job	Truss	Truss Type	Qty	Ply	
22050131	H01	Half Hip Girder	1	1	Job Reference (optional)

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Page: 2

Concentrated Loads (lb)

Vert: 3=-103 (F), 8=-53 (F), 7=-53 (F), 10=-53 (F), 15=-93 (F), 16=-22 (F), 17=-98 (F), 19=-98 (F), 20=-98 (F), 21=-98 (F), 22=-98 (F), 23=-103 (F), 24=-151 (F), 25=-53 (F), 26=-53 (F), 27=-53 (F)

Job	Truss	Truss Type	Qty	Ply	
22050131	H02	Half Hip	1	1	Job Reference (optional)

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2x4 II

4x8 =

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

except end verticals, and 2-0-0 oc purlins: 4-5.

Installation guide.

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

Page: 1



 $2.5 \stackrel{12}{\vdash}$ 2.4 = 0.1 = 9 $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$ $0.6 \stackrel{1}{\rightarrow}$

One RT7A

3x5 =

Scale = 1:30.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.01	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.16	6-9	>654	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	[Weight: 40 lb	FT = 20%

BRACING TOP CHORD

BOT CHORD

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

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

REACTIONS (lb/size) 2=359/0-3-8, (min. 0-1-8), 6=292/ Mechanical, (min. 0-1-8)

Max Horiz 2=55 (LC 14)

Max Uplift 2=-50 (LC 11), 6=-11 (LC 11) Max Grav 2=493 (LC 35), 6=361 (LC 35)

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

FORCES (lb) - Max. Comp./Max. Ten. - A TOP CHORD 2-10=-839/202, 3-10=-795/209

BOT CHORD 2-6=-286/802 WEBS 3-6=-776/239

NOTES

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

- 2) Wind: ASCE 7-10; 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 (2) -1-3-13 to 1-8-3, Interior (1) 1-8-3 to 8-0-0, Exterior (2) 8-0-0 to 8-7-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) Provide adequate drainage to prevent water ponding.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 6.
- 0) One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	H03	Monopitch	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

MiTek recommends that Stabilizers and required cross bracing be

except end verticals, and 2-0-0 oc purlins: 4-5.

Installation guide.

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

2x4 II

Page: 1



One RT7A

3x5 =

Scale = 1:30.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.01	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.16	6-9	>654	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 40 lb	FT = 20%

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 BOT CHORD

REACTIONS (lb/size) 2=359/0-3-8, (min. 0-1-8), 6=292/ Mechanical, (min. 0-1-8)

Max Horiz 2=55 (LC 14)

Max Uplift 2=-50 (LC 11), 6=-11 (LC 11) Max Grav 2=493 (LC 35), 6=361 (LC 35)

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

TOP CHORD 2-10=-839/133, 3-10=-795/140

BOT CHORD 2-6=-165/802 WEBS 3-6=-776/128

NOTES

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

- 2) Wind: ASCE 7-10; 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 (2) -1-3-13 to 1-8-3, Interior (1) 1-8-3 to 8-7-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) Provide adequate drainage to prevent water ponding.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 6.
- 0) One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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ПП

21

5x6=

4x5 II

ПΠ

22

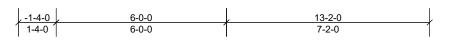
Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-6 max.): 3-4.

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

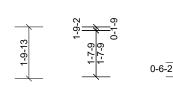
Rigid ceiling directly applied or 10-0-0 oc bracing

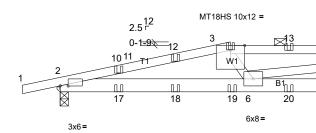
Installation guide.



NAILED NAII FD NAILED NAILED NAILED

NAILED





NAILED NAILED NAILED **NAILED NAILED** One RT7A **NAILED** 6-7-9 13-2-0 6-7-9 6-6-7

Plate Offsets (X, Y): [2:0-3-6,0-0-1], [4:Edge,0-1-12], [5:Edge,0-3-8]

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	0.94	Vert(LL)	-0.09	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.19	6-9	>839	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	İ									Weight: 65 lb	FT = 20%

BOT CHORD

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP 2400F 2.0E

BOT CHORD 2x6 SP 2400F 2.0E

2x4 SP No.3 *Except* W3:2x4 SP 2400F 2.0E WFBS

REACTIONS (lb/size) 2=996/0-3-8, (min. 0-1-8), 5=997/ Mechanical, (min. 0-1-8)

Max Horiz 2=40 (LC 10)

Max Uplift 2=-5 (LC 7)

Max Grav 2=1070 (LC 31), 5=1020 (LC 30)

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

2-10=-2588/0, 10-11=-2558/0, 11-12=-2551/0, 3-12=-2538/0, 3-13=-2462/0, 13-14=-2464/0, 14-15=-2464/0,

15-16=-2465/0, 4-16=-2467/0, 4-5=-835/57

2-17=0/2504, 17-18=0/2504, 18-19=0/2504, 6-19=0/2504, 6-20=-39/411, 20-21=-39/411, 21-22=-39/411, 5-22=-39/411 **BOT CHORD**

WEBS 4-6=0/2106

NOTES

TOP CHORD

Scale = 1:40.6

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design. 4)
- 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) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated
- * 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) Refer to girder(s) for truss to truss connections.
- One RT7A MiTek 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)
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-48, 3-4=-58, 5-7=-20

Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	
22050131	H04	Half Hip Girder	1	1	Job Reference (optional)

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Vert: 3=-103 (B), 10=-93 (B), 12=-22 (B), 13=-98 (B), 15=-98 (B), 16=-100 (B), 17=-103 (B), 18=-151 (B), 19=-53 (B), 20=-53 (B), 21=-53 (B), 22=-53 (B)

Job	Truss	Truss Type	Qty	Ply	
22050131	H05	Monopitch	14	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

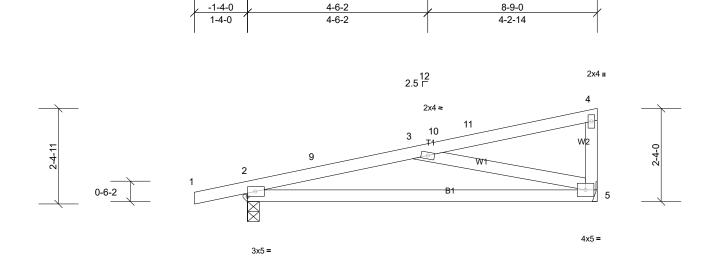
MiTek recommends that Stabilizers and required cross bracing be

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

except end verticals.

Installation guide.

Page: 1



One RT7A

Scale = 1:28.8

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	0.26	Vert(LL)	0.01	5-8	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.16	5-8	>638	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 38 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

LUMBERTOP CHORD 2x4 SP No.2

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

REACTIONS (lb/size) 2=359/0-3-8, (min. 0-1-8), 5=287/ Mechanical, (min. 0-1-8)

Max Horiz 2=63 (LC 14)

Max Uplift 2=-49 (LC 11), 5=-14 (LC 15)

Max Grav 2=429 (LC 2), 5=338 (LC 2)

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

TOP CHORD 2-9=-702/140, 3-9=-665/148

BOT CHORD 2-5=-230/675 WEBS 3-5=-695/212

NOTES

1) Wind: ASCE 7-10; 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 (2) -1-3-13 to 1-8-3, Interior (1) 1-8-3 to 8-7-4 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=1.33

2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

3) Unbalanced snow loads have been considered for this design.

4) 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 any other members.

6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 5.

8) One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	HJ01	Diagonal Hip Girder	2	1	Job Reference (optional)

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0-10-14

Structural wood sheathing directly applied or 2-8-7 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

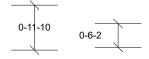
Rigid ceiling directly applied or 10-0-0 oc bracing.

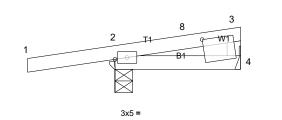
Page: 1

-1-10-10 2-8-7



1.77 6x8 =





One RT7A

BOT CHORD

2-8-7

except end verticals.

Installation guide.

Scale = 1:24.8

Plate Offsets (X, Y): [3:1-11-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	[Weight: 11 lb	FT = 20%

LUMBER **BRACING** TOP CHORD

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

WFBS 2x4 SP No.3

REACTIONS (lb/size) 2=209/0-4-9, (min. 0-1-8), 4=54/ Mechanical, (min. 0-1-8)

Max Horiz 2=19 (LC 10)

Max Uplift 2=-74 (LC 7), 4=-1 (LC 17)

Max Grav 2=256 (LC 2), 4=61 (LC 2)

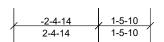
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

FORCES NOTES

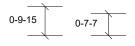
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 1) exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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) * 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
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 4.
- One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9)

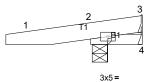
Job	Truss	Truss Type	Qty	Ply	
22050131	HJ02	Diagonal Hip Girder	1	1	Job Reference (optional)

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Structural wood sheathing directly applied or 1-5-10 oc purlins.

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

One RT7A



Scale = 1:32.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	7	>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	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

LUMBER

REACTIONS (lb/size)

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

2=187/0-5-3, (min. 0-1-8), 3=1/ Mechanical, (min. 0-1-8), 4=-5/

Mechanical, (min. 0-1-8)

Max Horiz 2=15 (LC 11) Max Uplift 2=-80 (LC 11), 3=-34 (LC 21), 4=-20 (LC 21)

Max Grav 2=247 (LC 21), 3=15 (LC 11), 4=11 (LC 11)

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

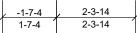
FORCES NOTES

- 1) Wind: ASCE 7-10; 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 (3) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 4 and 34 lb uplift at joint 3.
- One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

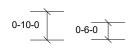
LOAD CASE(S)

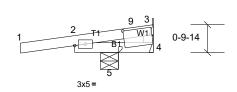
Job	Truss	Truss Type	Qty	Ply	
22050131	HJ03	Diagonal Hip Girder	1	1	Job Reference (optional)

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1.66 12





One RT16A

Scale = 1:34

Plate Offsets (X, Y): [3:1-5-10,0-2-12]

Loading	(psf)	Spacing	1-11-4	-		DEFL	in	(loc)	l/defl		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	[Weight: 10 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-3-14 oc purlins,

2x4 SP No.2 **BOT CHORD** except end verticals.

WFBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=-28/ Mechanical, (min. 0-1-8), 4=-80/ Mechanical, (min.

0-1-8), 5=324/0-6-5, (min. 0-1-8)

Max Horiz 5=16 (LC 14)

Max Uplift 3=-68 (LC 21), 4=-111 (LC 21), 5=-141 (LC 11)

Max Grav 3=22 (LC 11), 4=52 (LC 11), 5=398 (LC 2)

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

TOP CHORD 2-9=-382/271 **BOT CHORD** 2-5=-224/320

NOTES

- Wind: ASCE 7-10; 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 (3) 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=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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) * 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 68 lb uplift at joint 3 and 111 lb uplift at joint 4.
- One RT16A 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.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.

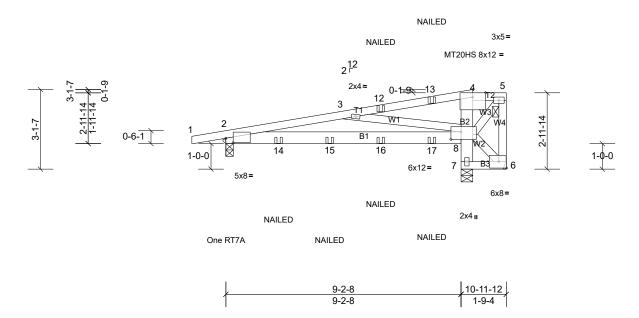
installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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

Installation guide.





Scale = 1:45.1

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

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	0.50	Vert(LL)	-0.10	8-11	>999	240	MT20HS	187/143
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.20	8-11	>568	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	İ									Weight: 64 lb	FT = 20%

BOT CHORD

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP 2400F 2.0E *Except* T2:2x4 SP No.2
 TOP CHORD

TOP CHORD 2x4 SP 2400F 2.0E *Except* T2:2x4 SP No.2 BOT CHORD 2x6 SP 2400F 2.0E *Except* B3:2x4 SP No.2

WERS 2x4 SP No.3

DEACTIONS (IL/sizs) 2-000/0 2.0 (ssiz 0.4.0) C- 440/ Mask-ssizs (ssiz 0.4.0)

REACTIONS (lb/size) 2=690/0-3-8, (min. 0-1-8), 6=-419/ Mechanical, (min. 0-1-8), 7=1282/0-5-8, (min. 0-1-11)

Max Horiz 2=74 (LC 10)

Max Uplift 2=-57 (LC 7), 6=-507 (LC 31)

Max Grav 2=802 (LC 31), 6=18 (LC 11), 7=1434 (LC 31)

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

TOP CHORD 2-3=-1353/73, 4-5=-28/258, 5-6=-49/309

BOT CHORD 2-14=-54/1349, 14-15=-54/1349, 15-16=-54/1349, 16-17=-54/1349, 8-17=-54/1349, 7-8=-1413/0, 6-7=-267/0

WEBS 5-8=-387/62, 6-8=0/334, 3-8=-1505/141

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) Provide adequate drainage to prevent water ponding.
-) All plates are MT20 plates unless otherwise indicated
- * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 507 lb uplift at joint 6.
- 11) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) WARNING: The following hangers are manually applied but fail due to geometric considerations: NAILED on back face at 2-0-12 from the left end, NAILED on back face at 4-0-12 from the left end.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Job	Truss	Truss Type	Qty	Ply	
22050131	K01	Half Hip Girder	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:28

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

Vert: 1-4=-48, 4-5=-58, 8-9=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 12=-40 (B), 13=0 (B), 14=-222 (B), 15=-218 (B), 16=-110 (B), 17=-155 (B)

Job	Truss	Truss Type	Qty	Ply	
22050131	K02	Monopitch	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:29 ID:27iEIAkViU?3Wq7oilh0AvzCkwf-etB1eS6bHFc89iSUVEIPp7GtiLTMQ8uhRRsdKXzCUH0

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

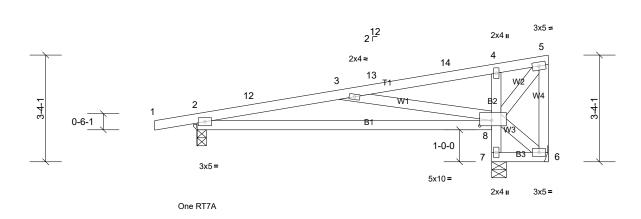
Rigid ceiling directly applied or 6-0-0 oc bracing.

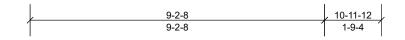
except end verticals.

Installation guide.

Page: 1

4-11-1 9-4-4 10-11-12 4-11-1 4-5-3





BOT CHORD

Scale = 1:36

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

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	0.30	Vert(LL)	0.01	8-11	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.17	8-11	>664	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 55 lb	FT = 20%

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 2x4 SP No.2 *Except* B2:2x4 SP No.3 **BOT CHORD**

2x4 SP No.3 WFBS

REACTIONS (lb/size) 2=346/0-3-8, (min. 0-1-8), 6=-193/ Mechanical, (min. 0-1-8),

7=644/0-5-8, (min. 0-1-8)

Max Horiz 2=84 (LC 14)

Max Uplift 2=-35 (LC 11), 6=-255 (LC 33), 7=-125 (LC 11)

Max Grav 2=409 (LC 2), 6=92 (LC 11), 7=791 (LC 2)

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

TOP CHORD 2-12=-676/58, 3-12=-665/65 **BOT CHORD** 2-8=-119/656, 7-8=-774/261, 4-8=-253/157

5-8=-311/181, 3-8=-817/179 **WEBS**

NOTES

- Wind: ASCE 7-10; 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 (2) -1-3-14 to 1-8-2, Interior (1) 1-8-2 to 10-10-0 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 6.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral 8) forces
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9)

Job	Truss	Truss Type	Qty	Ply	
22050131	K03	Monopitch	9	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:29 ID:BjsyFjyU0nWbIPRMhsHE86zCWsT-etB1eS6bHFc89iSUVEIPp7Gt9LRkQ9ghRRsdKXzCUH0

Structural wood sheathing directly applied or 5-2-1 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

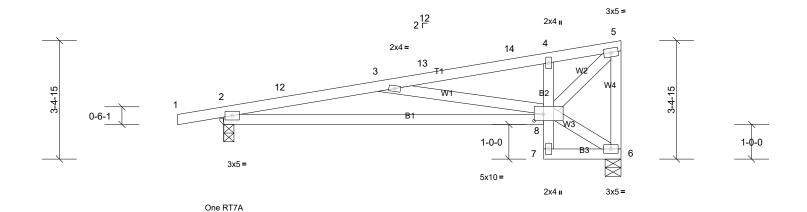
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

Installation guide.

Page: 1





9-2-8 11-5-4 9-2-8 2-2-12 Scale = 1:33.2

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

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	0.27	Vert(LL)	-0.02	8-11	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.18	8-11	>756	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 58 lb	FT = 20%

BOT CHORD

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 2x4 SP No.2 *Except* B2:2x4 SP No.3 **BOT CHORD**

WFBS 2x4 SP No.3

REACTIONS (lb/size) 2=449/0-3-8, (min. 0-1-8), 6=379/0-5-8, (min. 0-1-8)

Max Horiz 2=86 (LC 14)

Max Uplift 2=-52 (LC 11), 6=-19 (LC 15) Max Grav 2=536 (LC 2), 6=447 (LC 2)

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

TOP CHORD 2-12=-1240/166, 3-12=-1220/172, 3-13=-541/45, 13-14=-520/46, 4-14=-498/52, 4-5=-463/68, 5-6=-425/100

BOT CHORD 2-8=-271/1204

5-8=-136/646, 3-8=-704/142 **WEBS**

NOTES

- Wind: ASCE 7-10; 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 (2) -1-3-14 to 1-8-2, Interior (1) 1-8-2 to 11-3-8 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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) any other members.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	K04	Monopitch	5	1	Job Reference (optional)

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Structural wood sheathing directly applied or 5-3-14 oc purlins,

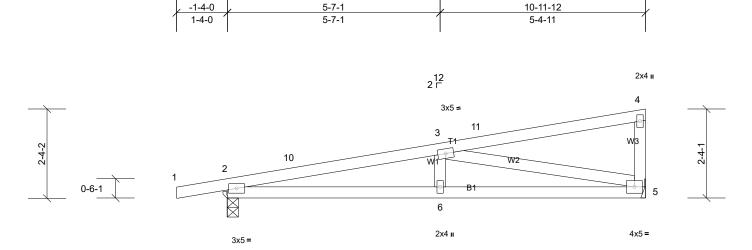
installed during truss erection, in accordance with Stabilizer

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 RT7A 10-11-12 5-4-11 Scale = 1:30.2

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	0.31	Vert(LL)	-0.04	6	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.09	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	İ		1							Weight: 46 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 WEBS

REACTIONS (lb/size) 2=434/0-3-8, (min. 0-1-8), 5=363/ Mechanical, (min. 0-1-8)

Max Horiz 2=61 (LC 14)

Max Uplift 2=-53 (LC 11), 5=-17 (LC 15)

Max Grav 2=517 (LC 2), 5=428 (LC 2)

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-10=-1146/126, 3-10=-1120/135

TOP CHORD **BOT CHORD** 2-6=-227/1105, 5-6=-227/1105

WEBS 3-5=-1077/192

NOTES

FORCES

- Wind: ASCE 7-10; 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 (2) -1-3-14 to 1-8-2, Interior (1) 1-8-2 to 10-10-0 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- Unbalanced snow loads have been considered for this design.
- 4) 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 any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 5.
- 8) One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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-1-4-0 5-9-13 9-8-0 11-5-4



NAII FD

NAILED

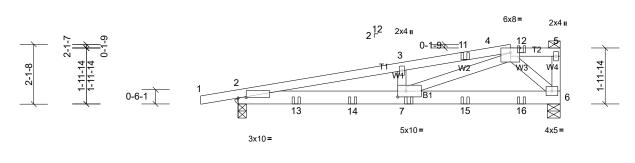
Structural wood sheathing directly applied or 2-11-13 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

Page: 1

NAILED



NAILED **NAILED** One RT7A **NAILED** 5-9-13 11-5-4 5-7-7 5-9-13

NAILED

Scale = 1:40.9

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

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.10	7-10	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.17	7-10	>779	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		İ						
BCDL	10.0]									Weight: 58 lb	FT = 20%

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP 2400F 2.0E

WFBS

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

REACTIONS (lb/size) 2=963/0-3-8, (min. 0-1-8), 6=895/0-5-8, (min. 0-1-8)

Max Horiz 2=48 (LC 10)

Max Uplift 2=-93 (LC 7), 6=-41 (LC 7) Max Grav 2=1102 (LC 31), 6=946 (LC 31)

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

TOP CHORD 2-3=-2878/148, 3-11=-2872/162, 4-11=-2849/165

BOT CHORD 2-13=-143/2821, 13-14=-143/2821, 7-14=-143/2821, 7-15=-50/769, 15-16=-50/769, 6-16=-50/769

WEBS 4-7=-101/2238, 4-6=-1011/94

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 2) exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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. 5)

Provide adequate drainage to prevent water ponding. 6)

- * 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 7) any other members
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- WARNING: The following hangers are manually applied but fail due to geometric considerations: NAILED on front face at 2-0-12 from the left end, NAILED on front face at 4-0-12 from the left end
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-46, 4-5=-56, 6-8=-19

Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	
22050131	K05	Half Hip Girder	1	1	Job Reference (optional)

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Vert: 7=-210 (F), 11=-1 (F), 12=-100 (F), 13=-249 (F), 14=-233 (F), 15=-190 (F), 16=-56 (F)

Job	Truss	Truss Type	Qty	Ply	
22050131	L01	Monopitch	4	1	Job Reference (optional)

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

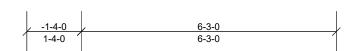
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

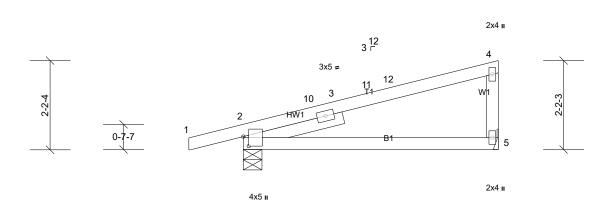
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

Installation guide.

Page: 1





Scale = 1:28.2 Plate Offsets (X, Y): [2:0-2-13,0-1-10]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.06	5-8	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	5-8	>557	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	ĺ									Weight: 27 lb	FT = 20%

6-3-0

BOT CHORD

LUMBER **BRACING** TOP CHORD

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

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

REACTIONS (lb/size) 2=276/0-5-8, (min. 0-1-8), 5=200/ Mechanical, (min. 0-1-8)

Max Horiz 2=59 (LC 14)

Max Uplift 2=-46 (LC 11), 5=-11 (LC 15)

Max Grav 2=332 (LC 2), 5=236 (LC 2)

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

TOP CHORD 2-10=-265/0, 3-10=-262/0

NOTES

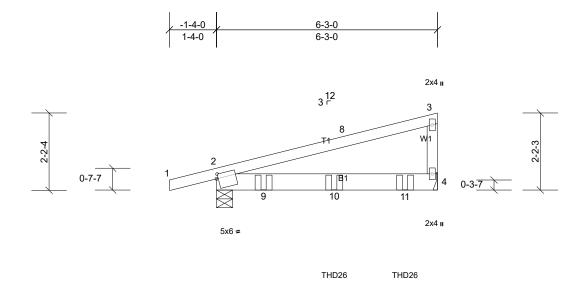
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) -1-3-13 to 1-8-3, Interior (1) 1-8-3 to 6-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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) * 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 11 lb uplift at joint 5.
- One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	L02	Monopitch Girder	1	2	Job Reference (optional)

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Page: 1



Scale = 1:32.6

6-3-0

Plate Offsets (X, Y): [2:0-0-10,0-1-8]

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	0.36	Vert(LL)	-0.10	4-7	>714	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.20	4-7	>358	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0]									Weight: 57 lb	FT = 20%

LUMBER BRACING

TOP CHORD 2x4 SP 2400F 2.0E TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x6 SP 2400F 2.0E except end verticals.

WEBS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

THD26

REACTIONS (lb/size) 2=1572/0-5-8, (min. 0-1-8), 4=1760/ Mechanical, (min. 0-1-8)

Max Horiz 2=57 (LC 10)

Max Grav 2=1867 (LC 2), 4=2085 (LC 2)

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

TOP CHORD 2-8=-625/7 BOT CHORD 2-9=-20/379

NOTES

- 1) 2-ply truss to be connected together as follows:
 - Top chords connected with 10d (0.131"x3") nails as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 2 rows staggered at 0-8-0 oc.
- 2) 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.
- 3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 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.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) One RT7A MiTek 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-0 from the left end to 5-4-0 to connect truss(es) G03 (1 ply 2x4 SP) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-48, 4-5=-20

Concentrated Loads (lb)

Vert: 9=-951 (F), 10=-951 (F), 11=-954 (F)

Job	Truss	Truss Type	Qty	Ply	
22050131	MH01	Jack-Open Girder	2	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

2-0-0 oc purlins: 3-4.

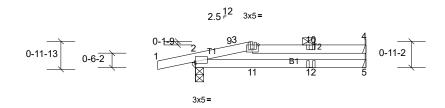
Installation guide.

Page: 1



NAILED

NAILED



Special

BOT CHORD

One RT7A NAILED

Scale = 1:40.5

Plate Offsets (X, Y): [2:Edge,0-0-12], [3:0-2-8,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	0.64	Vert(LL)	-0.09	5-8	>790	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	5-8	>388	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.08	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 20 lb	FT = 20%

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

BOT CHORD 2x4 SP 2400F 2.0E

REACTIONS (lb/size) 2=305/0-3-8, (min. 0-1-8), 4=114/ Mechan

2=305/0-3-8, (min. 0-1-8), 4=114/ Mechanical, (min. 0-1-8), 5=118/ Mechanical, (min. 0-1-8)

Max Horiz 2=19 (LC 7)

Max Uplift 2=-45 (LC 7), 4=-29 (LC 7)

Max Grav 2=347 (LC 29), 4=141 (LC 30), 5=123 (LC 30)

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

TOP CHORD 2-9=-90/253

NOTES

FORCES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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.
- Provide adequate drainage to prevent water ponding.
- *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 29 lb uplift at joint 4.
- 10) One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 3 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-48, 3-4=-58, 5-6=-20

Concentrated Loads (lb)

Vert: 11=-33 (F), 12=0 (F)

Job	Truss	Truss Type	Qty	Ply	
22050131	MH01	Jack-Open Girder	2	1	Job Reference (optional)

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Job	Truss	Truss Type	Qty	Ply	
22050131	MH02	Jack-Open	2	1	Job Reference (optional)

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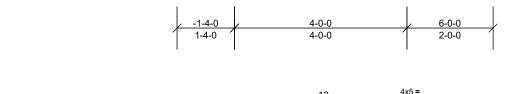
Structural wood sheathing directly applied or 6-0-0 oc purlins,

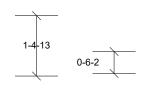
installed during truss erection, in accordance with Stabilizer

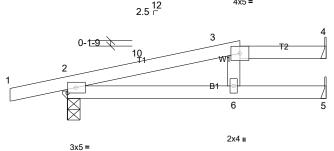
MiTek recommends that Stabilizers and required cross bracing be

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

Page: 1









BOT CHORD

except

2-0-0 oc purlins: 3-4.

Installation guide.

Scale = 1:26.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.10	6-9	>722	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.21	6-9	>339	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.07	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	[Weight: 21 lb	FT = 20%

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

WEBS 2x4 SP No.3

REACTIONS (lb/size) 2=274/0-3-8, (min. 0-1-8), 4=56/ Mechanical, (min. 0-1-8),

5=154/ Mechanical, (min. 0-1-8) Max Horiz 2=30 (LC 11)

Max Uplift 2=-47 (LC 11), 4=-14 (LC 11)

Max Grav 2=362 (LC 35), 4=69 (LC 34), 5=171 (LC 2)

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

FORCES NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) -1-3-13 to 1-8-3, Interior (1) 1-8-3 to 5-11-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) Provide adequate drainage to prevent water ponding.
- * 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 7) any other members.
- 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 4.
- One RT7A MiTek 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)
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

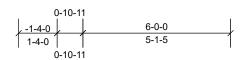
LOAD CASE(S)

Job	Truss	Truss Type	Qty	Ply	
22050131	MH03	Jack-Open Girder	1	1	Job Reference (optional)

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



NAILED

NAILED 3 ¹² 4x5= 4x6 u 0-7-7 3x5=

NAILED

One RT7A NAILED 6-0-0

Scale = 1:39.9

Plate Offsets (X, Y): [3:0-2-8,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	0.68	Vert(LL)	-0.01	5-8	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.03	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0	ĺ									Weight: 22 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x6 SP No.2 *Except* T2:2x4 SP No.2 TOP CHORD

except end verticals, and 2-0-0 oc purlins: 3-4. **BOT CHORD** 2x4 SP No.2 **WFBS** 2x4 SP No 3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=269/0-3-8, (min. 0-1-8), 5=223/ Mechanical, (min. 0-1-8)

Max Horiz 2=14 (LC 10)

Max Uplift 2=-37 (LC 7), 5=-8 (LC 8) Max Grav 2=297 (LC 29), 5=269 (LC 30)

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

TOP CHORD 2-3=-581/22, 3-9=-564/17, 9-10=-564/17, 4-10=-564/17

BOT CHORD 2-11=-27/564, 11-12=-22/564, 5-12=-22/564

NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 2) exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4
- 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. 5)
- 6) Provide adequate drainage to prevent water ponding.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 5.
- One RT7A MiTek 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)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11)
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

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

Vert: 1-3=-48, 3-4=-58, 5-6=-20

Concentrated Loads (lb)

Vert: 11=0 (B), 12=0 (B)

Job	Truss	Truss Type	Qty	Ply	
22050131	MH04	Jack-Open	1	1	Job Reference (optional)

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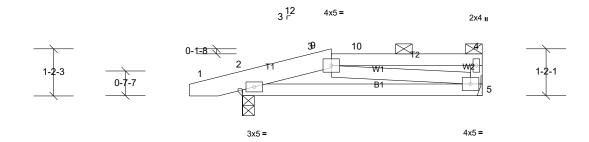
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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





One RT7A

Scale = 1:28.8

				_			,	<u> </u>	_
-	2-0-0	CSI	-	DEFL	in	(loc)	l/defl	L/d	PL/
)L	1.15	TC	0.31	Vert(LL)	0.00	5-8	>999	240	MT:

BRACING

TOP CHORD

BOT CHORD

6-0-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.00	5-8	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

2x6 SP No.2 *Except* T2:2x4 SP No.2

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

WEBS 2x4 SP No.3

REACTIONS (lb/size) 2=260/0-3-8, (min. 0-1-8), 5=219/ Mechanical, (min. 0-1-8)

Max Horiz 2=25 (LC 14)

Max Uplift 2=-37 (LC 11), 5=-7 (LC 11)

Max Grav 2=301 (LC 35), 5=253 (LC 34)

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

TOP CHORD 2-9=-390/123, 3-9=-376/126

BOT CHORD 2-5=-138/373 **WEBS** 3-5=-381/131

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 2) -0-11-11 to 2-2-11, Interior (1) 2-2-11 to 5-10-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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. 5)
- Provide adequate drainage to prevent water ponding. 6)
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5.
- One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11)
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	MH05	Jack-Open	1	1	Job Reference (optional)

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

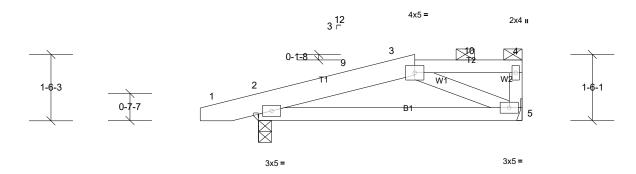
except end verticals, and 2-0-0 oc purlins: 3-4.

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

Page: 1



6-0-0



One RT7A

Scale = 1:26.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	5-8	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 29 lb	FT = 20%

BOT CHORD

 LUMBER
 BRACING

 TOP CHORD
 2x6 SP No.2 *Except* T2:2x4 SP No.2
 TOP CHORD

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

REACTIONS (lb/size) 2=253/0-3-8, (min. 0-1-8), 5=213/ Mechanical, (min. 0-1-8)

Max Horiz 2=35 (LC 14)

Max Uplift 2=-37 (LC 11), 5=-7 (LC 11) Max Grav 2=331 (LC 35), 5=229 (LC 2)

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

TOP CHORD 2-9=-266/83, 3-9=-250/90

WEBS 3-5=-273/117

NOTES

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

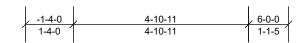
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) -0-11-11 to 2-0-5, Interior (1) 2-0-5 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) Provide adequate drainage to prevent water ponding.
-) * 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 7 lb uplift at joint 5.
- 10) One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 2) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

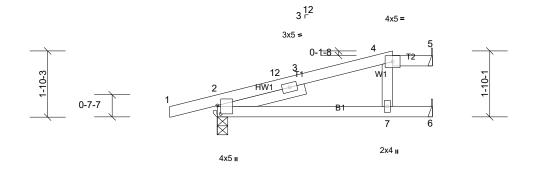
Job	Truss	Truss Type	Qty	Ply	
22050131	MH06	Jack-Open	1	1	Job Reference (optional)

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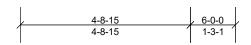
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Page: 1





One RT7A



Scale = 1:32.1

Plate Offsets (X, Y): [2:0-2-13,0-1-2]

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	0.51	Vert(LL)	-0.09	7-10	>802	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.17	7-10	>414	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.06	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 26 lb	FT = 20%

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

WEBS 2x4 SP No.3 2-0-0 oc purlins: 4-5.

SLIDER Left 2x4 SP No.3 -- 2-6-0 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=272/0-3-8, (min. 0-1-8), 5=30/ Mechanical, (min. 0-1-8),

6=173/ Mechanical, (min. 0-1-8)

Max Horiz 2=43 (LC 11)

Max Uplift 2=-44 (LC 11), 5=-8 (LC 11), 6=-1 (LC 11) Max Grav 2=381 (LC 35), 5=39 (LC 34), 6=209 (LC 35)

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

TOP CHORD 2-12=-436/18, 3-12=-422/19

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) -1-3-13 to 1-8-3, Interior (1) 1-8-3 to 5-11-4 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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.
- Provide adequate drainage to prevent water ponding.
- * 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 8 lb uplift at joint 5 and 1 lb uplift at joint 6.
- 10) One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

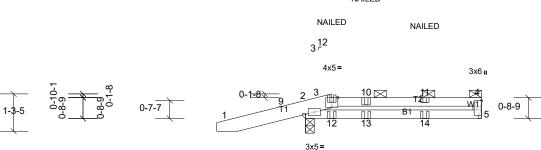


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Page: 1



NAILED



NAILED

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

except end verticals, and 2-0-0 oc purlins: 3-4.

Installation guide.

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

NAILED

NAILED

One RT7A

6-0-0 Scale = 1:39.3

Plate Offsets (X, Y): [3:0-2-8,Edge], [4:Edge,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.02	5-8	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.02	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 26 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x6 SP No.2 *Except* T2:2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2

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

REACTIONS (lb/size) 2=310/0-3-8, (min. 0-1-8), 5=186/ Mechanical, (min. 0-1-8) Max Horiz 2=24 (LC 68)

Max Uplift 2=-113 (LC 7), 5=-11 (LC 8) Max Grav 2=369 (LC 31), 5=242 (LC 30)

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

TOP CHORD 2-3=-465/369, 3-10=-452/122, 10-11=-452/122, 4-11=-452/122

BOT CHORD 2-12=-281/453, 12-13=-122/453, 13-14=-122/453, 5-14=-122/453

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 2) exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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. 5)

6) Provide adequate drainage to prevent water ponding.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 5.
- One RT7A MiTek 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)
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11)
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

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

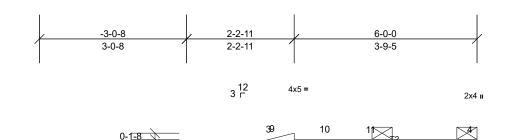
Vert: 1-3=-48, 3-4=-58, 5-6=-20

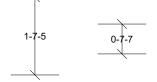
Concentrated Loads (lb)

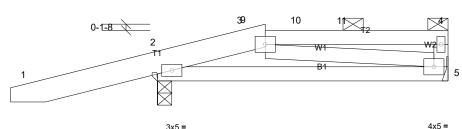
Vert: 3=36 (F), 12=42 (F), 13=0 (F), 14=0 (F)

Job	Truss	Truss Type	Qty	Ply	
22050131	MH08	Jack-Open	1	1	Job Reference (optional)

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Page: 1

One RT7A

6-0-0

Installation guide.

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

except end verticals, and 2-0-0 oc purlins: 3-4.

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

Scale = 1:23.8

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	0.31	Vert(LL)	0.01	5-8	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	ļ									Weight: 33 lb	FT = 20%

BOT CHORD

LUMBER **BRACING** 2x6 SP No.2 *Except* T2:2x4 SP No.2 TOP CHORD TOP CHORD

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

2=367/0-3-8, (min. 0-1-8), 5=194/ Mechanical, (min. 0-1-8)

REACTIONS (lb/size) Max Horiz 2=30 (LC 14)

Max Uplift 2=-100 (LC 11), 5=-6 (LC 12) Max Grav 2=466 (LC 35), 5=238 (LC 34)

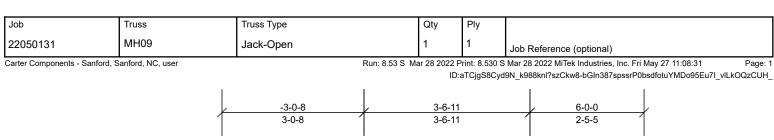
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

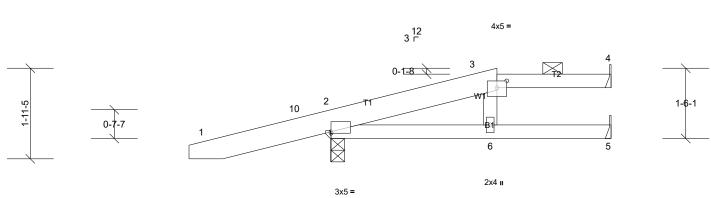
TOP CHORD 2-9=-319/304, 3-9=-311/90

BOT CHORD 2-5=-234/300 **WEBS** 3-5=-306/92

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) -2-8-3 2) to 0-7-1, Interior (1) 0-7-1 to 5-10-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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. 5)
- Provide adequate drainage to prevent water ponding. 6)
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 5.
- One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11)
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





3-4-15 3-4-15 6-0-0 2-7-1

One RT7A

Plate Offsets (X, Y): [2:Edge,0-0-6], [3:0-2-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.09	6-9	>786	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.15	6-9	>465	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.05	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	İ									Weight: 30 lb	FT = 20%

BOT CHORD

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 6-0-0 oc bracing

except

2-0-0 oc purlins: 3-4.

Installation guide

LUMBER BRACING

TOP CHORD 2x6 SP No.2 *Except* T2:2x4 SP No.2 TOP CHORD

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

REACTIONS (lb/size) 2=363/0-3-8, (min. 0-1-8), 4=69/ Mechanical, (min. 0-1-8),

5=122/ Mechanical, (min. 0-1-8)

Max Horiz 2=50 (LC 11)

Max Uplift 2=-98 (LC 11), 4=-18 (LC 11)

Max Grav 2=498 (LC 35), 4=88 (LC 34), 5=130 (LC 2)

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

TOP CHORD 2-3=-252/301

NOTES

FORCES

Scale = 1:24.7

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) -2-8-3 to 0-7-1, Interior (1) 0-7-1 to 3-6-11, Exterior (2) 3-6-11 to 5-11-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) Provide adequate drainage to prevent water ponding.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 4.
- 0) One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	MH10	Jack-Open	1	1	Job Reference (optional)

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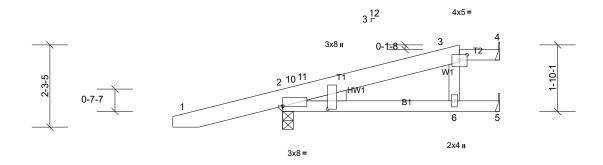
Structural wood sheathing directly applied or 6-0-0 oc purlins,

installed during truss erection, in accordance with Stabilizer

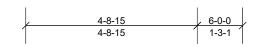
MiTek recommends that Stabilizers and required cross bracing be

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





One RT7A



except

2-0-0 oc purlins: 3-4.

Installation guide.

Scale = 1:31.9

Plate Offsets (X, Y): [2:Edge,0-0-2], [2:0-1-0,1-2-14], [3:0-2-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.Ó	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.05	`6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.09	6-9	>798	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 33 lb	FT = 20%

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x6 SP No.2 *Except* T2:2x4 SP No.2

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

WEDGE BOT CHORD Left: 2x4 SP No.3

REACTIONS (lb/size) 2=359/0-3-8, (min. 0-1-8), 4=30/ Mechanical, (min. 0-1-8),

5=151/ Mechanical, (min. 0-1-8) Max Horiz 2=59 (LC 11)

Max Uplift 2=-96 (LC 11), 4=-8 (LC 11)

Max Grav 2=516 (LC 35), 4=39 (LC 34), 5=175 (LC 35)

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

NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; 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 (2) -2-8-3 to 0-3-13, Interior (1) 0-3-13 to 4-10-11, Exterior (2) 4-10-11 to 5-11-4 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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.
- Provide adequate drainage to prevent water ponding. 6)
- * 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 7) 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 8 lb uplift at joint 4.
- One RT7A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11)
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	PB01	Piggyback	2	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:32 Page: 1 ID:6kbUKUiFBtlLHM PbufY4UzCkwh-3SsAHU8UaA i19A3BMJ6RluROYaXdZj77O4HwszCUGz

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.

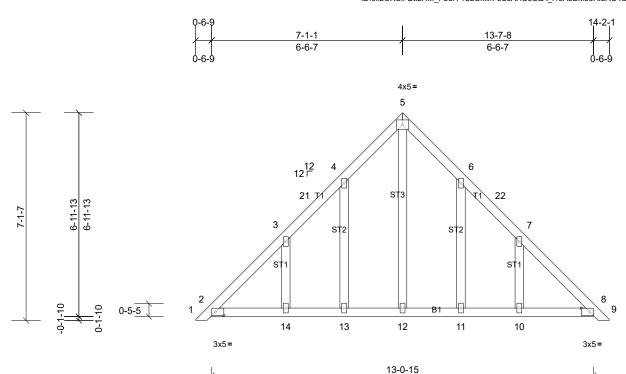


Plate Offsets (X, Y): [2:0-3-7,0-1-8], [8:0-3-7,0-1-8]

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	0.08	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	0.10	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 79 lb	FT = 20%

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

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

REACTIONS All bearings 13-0-15.

(lb) - Max Horiz 2=-136 (LC 11), 15=-136 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 10, 11, 13, 14, 15

Max Grav All reactions 250 (lb) or less at joint(s) 2, 8, 10, 11, 12, 13, 14,

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

NOTES

Scale = 1:39.5

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) 0-2-11 2) to 3-1-7, Interior (1) 3-1-7 to 7-1-7, Exterior (2) 7-1-7 to 10-1-7, Interior (1) 10-1-7 to 14-0-3 zone; cantilever left and right exposed; end vertical left and right exposed; 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 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
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 12, 13, 14, 11, and 10. This connection is for uplift only and does not
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Job	Truss	Truss Type	Qty	Ply	
22050131	PB02	Piggyback	20	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

Installation guide.

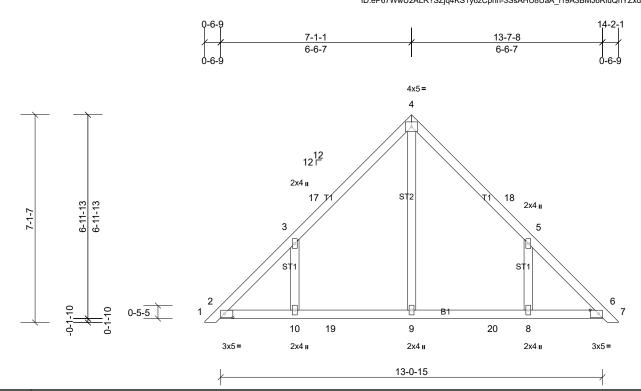


Plate Offsets (X, Y): [2:0-3-7,0-1-8], [6:0-3-7,0-1-8]

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 66 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2

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

REACTIONS All bearings 13-0-15.

(lb) - Max Horiz 2=-136 (LC 11), 11=-136 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 11, 14 except 8=-127 (LC 14), 10=-128 (LC 13)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 11, 14 except 8=369 (LC 26), 9=338 (LC 25), 10=370 (LC 25)

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

WEBS 3-10=-316/218, 5-8=-316/218

NOTES

Scale = 1:39.5

LUMBER

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) 0-2-11 2) to 3-1-7, Interior (1) 3-1-7 to 7-1-7, Exterior (2) 7-1-7 to 10-1-7, Interior (1) 10-1-7 to 14-0-3 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=1.33
- 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 qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4) DOL=1.15); Category II; Exp B; Fully Exp.; 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. 5)
- Gable requires continuous bottom chord bearing. 6)
- Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 9, 10, and 8. This connection is for uplift only and does not consider
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Job	Truss	Truss Type	Qty	Ply	
22050131	PB03	Piggyback	4	1	Job Reference (optional)

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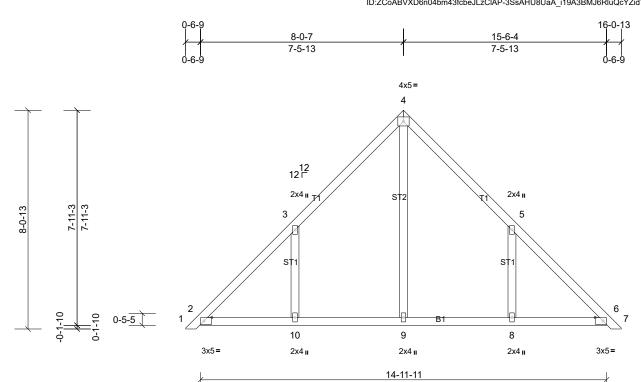


Plate Offsets (X, Y): [2:0-3-7,0-1-8], [6:0-3-7,0-1-8]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0]									Weight: 77 lb	FT = 20%

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

REACTIONS All bearings 14-11-11.

(lb) - Max Horiz 2=155 (LC 12), 11=155 (LC 12)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 11 except 8=-141 (LC 14),

10=-142 (LC 13)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 11, 14 except

8=445 (LC 26), 9=339 (LC 28), 10=446 (LC 25)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 3-10=-342/257, 5-8=-342/257

NOTES

Scale = 1:42.5

LUMBER

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (3) 0-2-11 2) to 3-2-11, Exterior (2) 3-2-11 to 8-0-13, Corner (3) 8-0-13 to 11-0-13, Exterior (2) 11-0-13 to 15-10-15 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4) DOL=1.15); Category II; Exp B; Fully Exp.; 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. 5)
- Gable requires continuous bottom chord bearing. 6)
- Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 9, 10, and 8. This connection is for uplift only and does not consider
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer. 11)

LOAD CASE(S) Standard **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

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

Job	Truss	Truss Type	Qty	Ply	
22050131	PB04	Piggyback	2	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.

Installation guide.

0-6-9

8-0-7

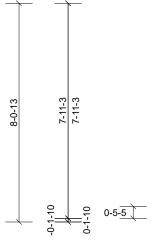
7-5-13

15-6-4

7-5-13

0-6-9

4x5=
6



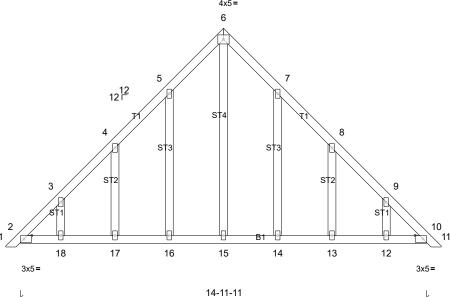


Plate Offsets (X, Y): [2:0-3-7,0-1-8], [10:0-3-7,0-1-8]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0]									Weight: 97 lb	FT = 20%

BRACING

TOP CHORD

BOT CHORD

LUMBER
TOP CHORD 2x4

Scale = 1:42.5

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

OTHERS 2x4 SP No.3 **REACTIONS** All bearings 14-11-11.

(lb) - Max Horiz 2=-155 (LC 11), 19=-155 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 10, 12, 13, 14, 16, 17, 18, 19, 22

Max Grav All reactions 250 (lb) or less at joint(s) 2, 10, 12, 13, 14, 15, 16, 17, 18, 19, 22

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (3) 0-2-11 to 3-2-11, Exterior (2) 3-2-11 to 8-0-13, Corner (3) 8-0-13 to 11-0-13, Exterior (2) 11-0-13 to 15-10-15 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) 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.
- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, 15, 16, 17, 18, 14, 13, and 12. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Job	Truss	Truss Type	Qty	Ply	
22050131	VL01	Valley	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

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

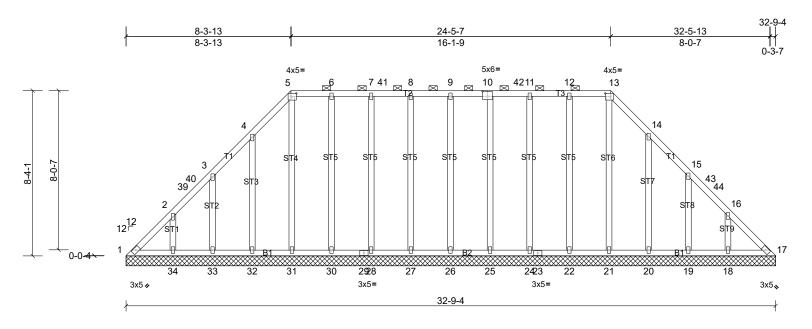
installed during truss erection, in accordance with Stabilizer

2-0-0 oc purlins (6-0-0 max.): 5-13.

10-0-0 oc bracing: 1-34,33-34,32-33,31-32

except

Installation guide.



Scale = 1:58.1

Plate Offsets (X, Y): [5:0-3-4,0-1-12], [10:0-3-0,0-3-0], [13:0-3-4,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	17	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 245 lb	FT = 20%

BOT CHORD

LUMBER **BRACING** TOP CHORD

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

OTHERS 2x4 SP No.3

REACTIONS All bearings 32-9-4.

(lb) - Max Horiz 1=162 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 18, 19, 20, 22, 24, 25, 26, 27, 28, 30, 32, 33, 34

All reactions 250 (lb) or less at joint(s) 1, 17, 18, 19, 20, 21, 22, Max Grav

24, 25, 26, 27, 28, 30, 31, 32, 33, 34

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

FORCES NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; 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 (2) 0-0-4 2) to 3-3-9, Interior (1) 3-3-9 to 8-4-1, Exterior (2) 8-4-1 to 12-11-11, Interior (1) 12-11-11 to 24-5-11, Exterior (2) 24-5-11 to 29-1-4, Interior (1) 29-1-4 to 32-9-8 zone; cantiléver 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding. 5)
- All plates are 2x4 MT20 unless otherwise indicated. 6)
- 7) 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 9)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 26, 27, 28, 30, 32, 33, 34, 25, 24, 22, 20, 19, 18.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11)
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Ţ	Job	Truss	Truss Type	Qty	Ply	
2	22050131	VL02	Valley	2	1	Job Reference (optional)

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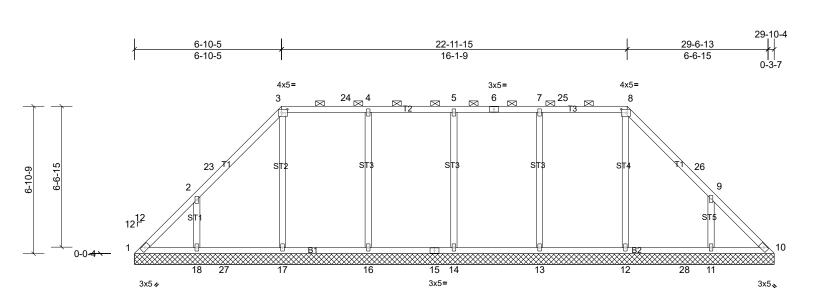


Plate Offsets (X, Y): [3:0-3-4,0-1-12], [8:0-3-4,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	-	0.21	Vert(LL)	n/a	(100)	n/a		MT20	244/190
` ,			-	_		` '		-			IVITZU	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	-		Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	ĺ									Weight: 150 lb	FT = 20%

LUMBER **BRACING**

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

OTHERS 2x4 SP No.3

REACTIONS All bearings 29-10-4.

(lb) - Max Horiz 1=-133 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 13, 14, 16, 17 except

11=-115 (LC 14), 18=-117 (LC 13)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 10 except 11=379 (LC

25), 12=369 (LC 31), 13=420 (LC 30), 14=393 (LC 3), 16=419

(LC 31), 17=394 (LC 24), 18=380 (LC 24)

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

4-16=-264/94, 2-18=-317/206, 7-13=-265/95, 9-11=-315/205 **WEBS**

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) 0-0-4 2) to 2-11-2, Interior (1) 2-11-2 to 6-10-9, Exterior (2) 6-10-9 to 9-10-9, Interior (1) 9-10-9 to 23-0-3, Exterior (2) 23-0-3 to 26-0-3, Interior (1) 26-0-3 to 29-10-8 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 6) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 16, 17, 13 except (jt=lb) 18=116, 11=115.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Scale = 1:53.8

2x4 SP No.2 TOP CHORD

BOT CHORD

29-10-4

except

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

2-0-0 oc purlins (6-0-0 max.): 3-8.

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

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

Installation guide.

Job	Truss	Truss Type	Qty	Ply	
22050131	VL03	Valley	2	1	Job Reference (optional)

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

MiTek recommends that Stabilizers and required cross bracing be

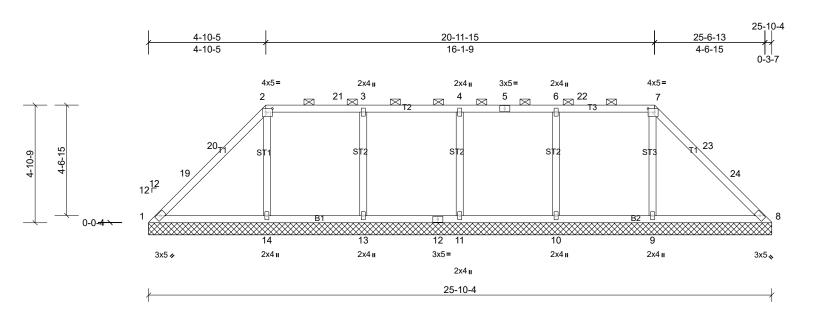
installed during truss erection, in accordance with Stabilizer

except

Installation guide.

2-0-0 oc purlins (10-0-0 max.): 2-7.

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



Scale = 1:47.8

Plate Offsets (X, Y): [2:0-3-4,0-1-12], [7:0-3-4,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	ĺ									Weight: 114 lb	FT = 20%

BOT CHORD

LUMBER **BRACING** TOP CHORD

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

OTHERS 2x4 SP No.3

REACTIONS All bearings 25-10-4.

(lb) - Max Horiz 1=93 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 9, 10, 11, 13, 14 Max Grav All reactions 250 (lb) or less at joint(s) 1, 8 except 9=517 (LC 25), 10=420 (LC 30), 11=399 (LC 3), 13=419 (LC 31), 14=543

(LC 24)

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

TOP CHORD 2-20=-75/273, 7-23=-73/267

3-13=-262/91, 2-14=-373/149, 6-10=-263/91, 7-9=-371/148 **WEBS**

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) 0-0-4 2) to 3-0-4, Interior (1) 3-0-4 to 4-10-9, Exterior (2) 4-10-9 to 7-10-9, Interior (1) 7-10-9 to 21-0-3, Exterior (2) 21-0-3 to 24-0-3, Interior (1) 24-0-3 to 25-10-8 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 13, 14, 10, 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Weight: 119 lb

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

installed during truss erection, in accordance with Stabilizer

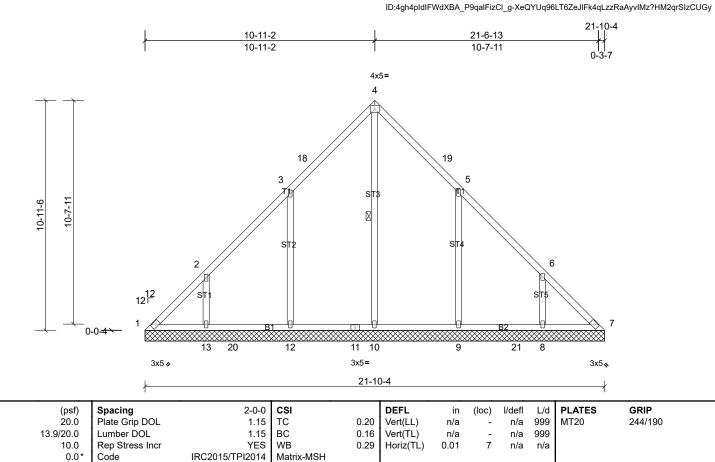
MiTek recommends that Stabilizers and required cross bracing be

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

1 Row at midpt

Installation guide.

FT = 20%



BRACING

WEBS

TOP CHORD

BOT CHORD

LUMBER TOP CHORD

BOT CHORD

OTHERS

Scale = 1:54.8

Loading

TCDL

BCLL

BCDL

TCLL (roof)

Snow (Pf/Pg)

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

2x4 SP No.3

REACTIONS All bearings 21-10-4.

(lb) - Max Horiz 1=-213 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 8, 13 except 9=-136 (LC

14), 12=-137 (LC 13)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=352 (LC 25), 9=499 (LC 25), 10=385 (LC 27), 12=501 (LC 24), 13=355

(LC 24)

10.0

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

3-12=-350/230, 2-13=-277/175, 5-9=-347/228, 6-8=-279/177

NOTES

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

- Wind: ASCE 7-10; 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 (2) 0-0-4 2) to 2-11-2, Interior (1) 2-11-2 to 10-11-6, Exterior (2) 10-11-6 to 13-11-6, Interior (1) 13-11-6 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 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 6) 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, 7, 13, 8 except (jt=lb) 12=136, 9=136.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 8)



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

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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

1 Row at midpt

Installation guide.

ID:p78PIHQCrVklPg8oBrDw6QzCkx3-XeQYUq96LT6ZeJIFk4qLzzRY7yuhM OHM2qrSlzCUGy 17-6-13 8-11-2 8-11-2 8-7-11 4x5= 3 2x4 II 16 2 8-7-11 X 19 18 15 st 12 12 0-0-4 8 6 2x4 II 3x5 4 2x4 II 2x4 II 3x5 3x5= 17-10-4 (psf) Spacing 2-0-0 CSI **DEFL** in (loc) I/defl L/d **PLATES GRIP** 20.0 Plate Grip DOL 1.15 TC 0.33 Vert(LL) n/a 999 MT20 244/190 n/a

Loading TCLL (roof) 1.15 Snow (Pf/Pg) 13 9/20 0 Lumber DOL BC 0.20 Vert(TL) 999 n/a n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.20 Horiz(TL) 0.00 9 n/a n/a IRC2015/TPI2014 **BCLL** 0.0* Code Matrix-MSH BCDL Weight: 88 lb FT = 20%10.0

BRACING

WEBS

TOP CHORD

BOT CHORD

LUMBER

Scale = 1:49

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

REACTIONS All bearings 17-10-4.

(lb) - Max Horiz 1=173 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 14 except 6=-152 (LC 14), 9=-158 (LC 13)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 14 except 6=516 (LC 25), 8=670 (LC 24), 9=518 (LC 24)

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

TOP CHORD 1-15=-136/300, 2-15=-96/388, 3-16=-30/304, 3-17=-31/285, 4-19=-8/313 3-8=-488/0, 2-9=-389/241, 4-6=-386/239 **WEBS**

NOTES

FORCES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-10; 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 (2) 0-0-4 2) to 3-0-4, Interior (1) 3-0-4 to 8-11-6, Exterior (2) 8-11-6 to 11-11-6, Interior (1) 11-11-6 to 17-6-8 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=1.33

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; 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 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 except (jt=lb) 9=158, 6=152. 6)

This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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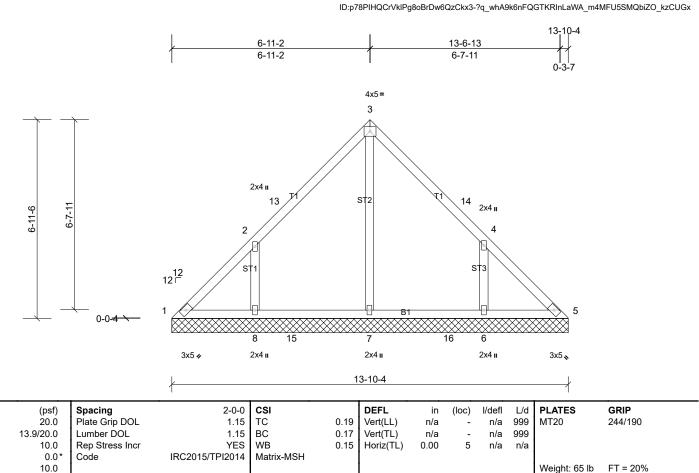
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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.

Installation guide.



BRACING

TOP CHORD

BOT CHORD

LUMBER

Scale = 1:40.3

Loading

TCDL

BCLL

BCDL

TCLL (roof)

Snow (Pf/Pg)

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

OTHERS 2x4 SP No.3

REACTIONS All bearings 13-10-4.

(lb) - Max Horiz 1=133 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-113 (LC 14),

8=-117 (LC 13)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=382 (LC

25), 7=367 (LC 24), 8=386 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-317/212, 4-6=-314/210

NOTES

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

- 2) Wind: ASCE 7-10; 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 (2) 0-0-4 to 2-11-2, Interior (1) 2-11-2 to 6-11-6, Exterior (2) 6-11-6 to 9-11-6, Interior (1) 9-11-6 to 13-10-8 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=116, 6=113.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	VL07	Valley	2	1	Job Reference (optional)

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999

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

Weight: 40 lb

Structural wood sheathing directly applied or 9-10-4 oc purlins.

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

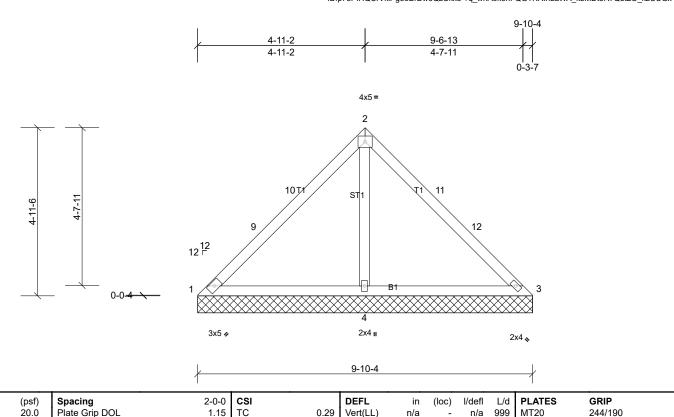
FT = 20%

n/a

n/a n/a

3

Installation guide.



0.27

0.23

BRACING

TOP CHORD

BOT CHORD

Vert(TL)

Horiz(TL)

n/a

0.01

LUMBER

Scale = 1:33.9

Loading

TCDL

BCLL

BCDL

TCLL (roof)

Snow (Pf/Pg)

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

OTHERS 2x4 SP No.3

REACTIONS (lb/size) 1=26/9-10-4, (min. 0-1-8), 3=28/9-10-4, (min. 0-1-8),

4=613/9-10-4, (min. 0-1-8)

Max Horiz 1=94 (LC 10)

13.9/20.0

10.0

10.0

0.0*

Max Uplift 1=-27 (LC 29), 3=-25 (LC 28), 4=-60 (LC 13) Max Grav 1=71 (LC 28), 3=74 (LC 29), 4=722 (LC 2)

Lumber DOL

Code

Rep Stress Incr

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

TOP CHORD 2-10=-98/293, 2-11=-96/290

WEBS 2-4=-561/237

NOTES

- I) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-11-6, Exterior (2) 4-11-6 to 7-11-6, Interior (1) 7-11-6 to 9-10-8 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 27 lb uplift at joint 1, 25 lb uplift at joint 3 and 60 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

1.15

YES WB

IRC2015/TPI2014

BC

Matrix-MSH

Job	Truss	Truss Type	Qty	Ply	
22050131	VL08	Valley	2	1	Job Reference (optional)

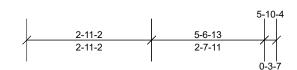
Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:34 Page: 1
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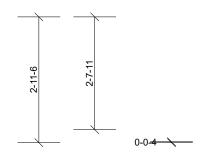
Structural wood sheathing directly applied or 5-10-4 oc purlins.

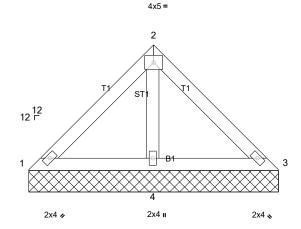
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

Installation guide.







5-10-4

Scale = 1:27

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.11	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	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 23 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=42/5-10-4, (min. 0-1-8), 3=44/5-10-4, (min. 0-1-8),

4=311/5-10-4, (min. 0-1-8)

Max Horiz 1=54 (LC 10)

Max Uplift 4=-21 (LC 13)

Max Grav 1=66 (LC 28), 3=68 (LC 29), 4=366 (LC 2)

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 21 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	VL09	Roof Special	1	1	Job Reference (optional)

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-14.

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

11-27, 9-28, 8-29, 7-30, 6-31, 5-32,

12-25, 13-24, 15-23

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

1 Row at midpt

Installation guide.

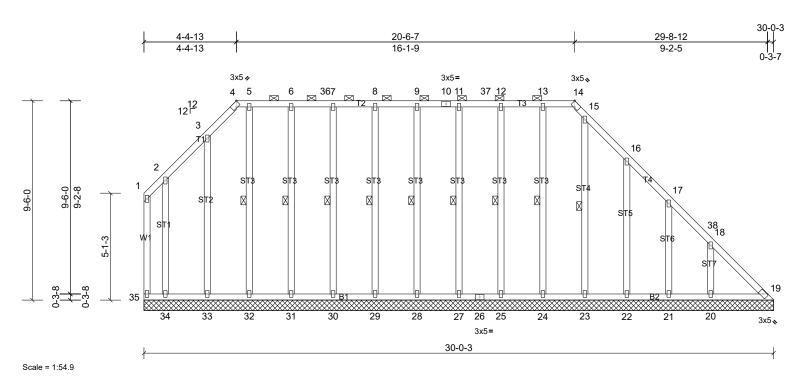


Plate Offsets (X, Y): [4:0-2-8, Edge], [14:0-2-8, Edge]

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	19	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-SH								
BCDL	10.0	1									Weight: 263 lb	FT = 20%

LUMBER **BRACING** TOP CHORD 2x4 SP No.2 TOP CHORD

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

REACTIONS All bearings 30-0-3.

(lb) - Max Horiz 35=-235 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 19, 20, 21, 22, 23, 24, 25,

27, 28, 29, 30, 31, 32, 33, 34, 35

Max Grav All reactions 250 (lb) or less at joint(s) 19, 20, 21, 22, 23, 24,

25, 27, 28, 29, 30, 31, 32, 33, 34, 35

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

3-4=-242/269, 15-16=-244/284, 18-19=-263/243 TOP CHORD

NOTES

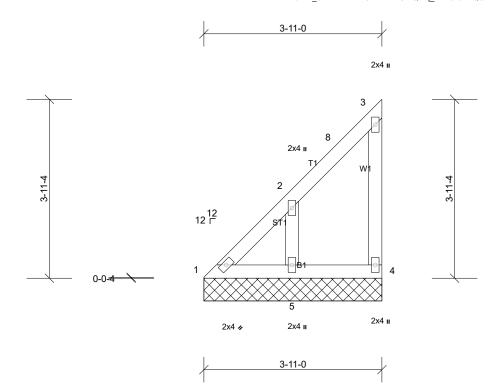
Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; 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 (2) 0-1-12 2) to 3-0-3, Interior (1) 3-0-3 to 4-4-13, Exterior (2) 4-4-13 to 8-7-12, Interior (1) 8-7-12 to 20-6-7, Exterior (2) 20-6-7 to 25-0-3, Interior (1) 25-0-3 to 29-8-3 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 5)
- 6) 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) 35, 19, 27, 28, 29, 30, 31, 32, 33, 34, 25, 24, 23, 22, 21, 20.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
22050131	VL10	Valley	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:34 Page: 1
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Scal	e =	1:25	5.3
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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	[Weight: 20 lb	FT = 20%

 LUMBER

 TOP CHORD
 2x4 SP No.2
 TOP CHORD
 Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals.

 BOT CHORD
 2x4 SP No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=49/3-11-0, (min. 0-1-8), 4=45/3-11-0, (min. 0-1-8),

5=153/3-11-0, (min. 0-1-8)

Max Horiz 1=105 (LC 10)

2x4 SP No.3

Max Uplift 1=-12 (LC 9), 4=-30 (LC 10), 5=-54 (LC 13)

Max Grav 1=89 (LC 25), 4=66 (LC 24), 5=195 (LC 24)

FORCES

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

NOTES

OTHERS

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; because it is in the control of the con
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Gable requires continuous bottom chord bearing.
- 4) * 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
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4, 12 lb uplift at joint 1 and 54 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



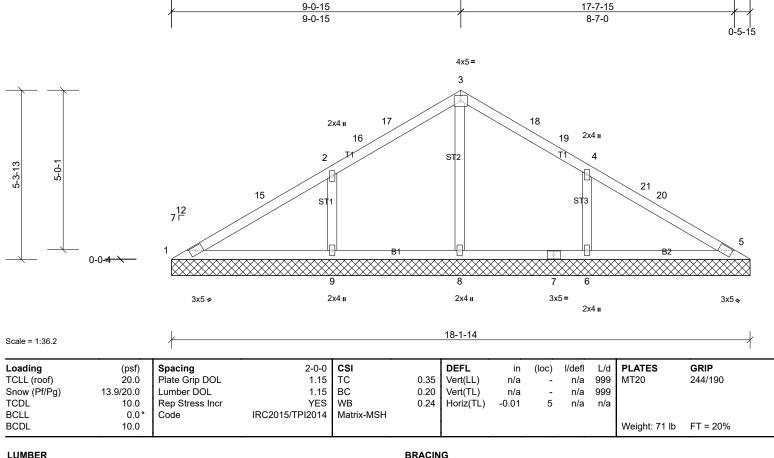
Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:34 Page: 1 ID:h4fQ rCmHwdCYdtuW9y2DazCjrd-?q whA9k6nFQGTKRInLaWA jYMEw5RzQbiZO kzCUGx

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.



TOP CHORD

BOT CHORD

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

OTHERS 2x4 SP No.3

REACTIONS All bearings 18-1-14.

(lb) - Max Horiz 1=102 (LC 12)

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=434

(LC 29), 8=536 (LC 2), 9=436 (LC 28)

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

1-15=-111/300, 2-15=-33/367, 2-16=0/268, 16-17=0/284, 3-17=0/340, 3-18=0/334, 18-19=0/271, 4-21=-22/363, TOP CHORD 20-21=-33/299, 5-20=-45/286

BOT CHORD 1-9=-257/92, 8-9=-257/78, 7-8=-254/78, 6-7=-254/78, 5-6=-254/78

3-8=-484/16, 2-9=-309/141, 4-6=-308/141 WEBS

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) 0-0-7 2) to 3-0-7, Interior (1) 3-0-7 to 9-1-6, Exterior (2) 9-1-6 to 12-1-6, Interior (1) 12-1-6 to 17-8-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design. 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 6) any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)



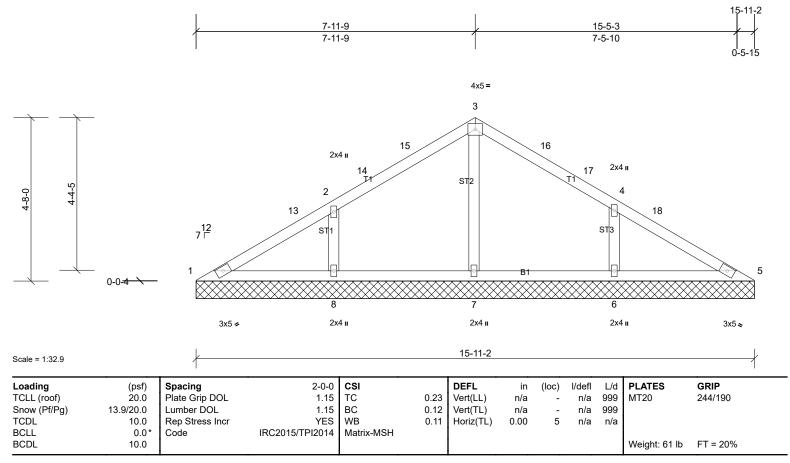
Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri May 27 11:08:35 Page: 1 ID:9GDoCBDO2DI3AnS54tTHmnzCjrc-T1YIvWAMt5NHudvesVsp2OWw9mcPqwFZqMJyWBzCUGw

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

2x4 SP No.3

REACTIONS All bearings 15-11-2.

(lb) - Max Horiz 1=-89 (LC 11)

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

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=380 (LC

29), 7=351 (LC 2), 8=380 (LC 28)

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

WFBS 3-7=-283/18, 2-8=-274/130, 4-6=-273/129

NOTES

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

Wind: ASCE 7-10; 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 (2) 0-0-7 2) to 3-0-7, Interior (1) 3-0-7 to 8-0-0, Exterior (2) 8-0-0 to 11-0-0, Interior (1) 11-0-0 to 15-11-9 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=1.33

BRACING

TOP CHORD

BOT CHORD

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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) 8, 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	VL13	Valley	1	1	Job Reference (optional)

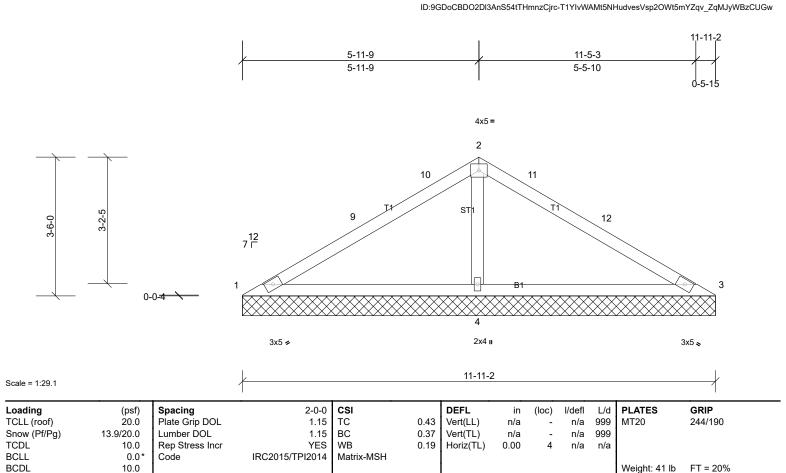
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Structural wood sheathing directly applied or 10-0-0 oc purlins.

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.



BRACING

TOP CHORD

BOT CHORD

LUMBER TOP CHORD

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

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

REACTIONS (lb/size) 1=6/11-11-2, (min. 0-1-8), 3=11/11-11-2, (min. 0-1-8),

4=791/11-11-2, (min. 0-1-8)

Max Horiz 1=66 (LC 14)

Max Uplift 1=-54 (LC 33), 3=-50 (LC 32), 4=-8 (LC 15) Max Grav 1=65 (LC 32), 3=70 (LC 33), 4=935 (LC 2)

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

TOP CHORD 1-9=-106/406, 9-10=-90/414, 2-10=-83/495, 2-11=-80/486, 11-12=-88/405, 3-12=-103/395

BOT CHORD 1-4=-395/144, 3-4=-388/141

WEBS 2-4=-735/202

NOTES

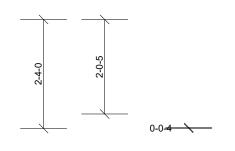
- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; because it is in the control of the con
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) * This trus 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 54 lb uplift at joint 1, 50 lb uplift at joint 3 and 8 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

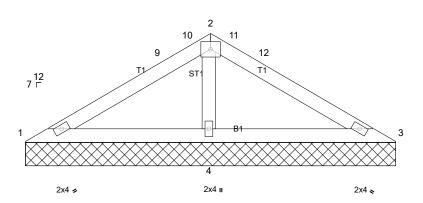
Job	Truss	Truss Type	Qty	Ply	
22050131	VL14	Valley	1	1	Job Reference (optional)

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3-11-9 7-5-3 3-11-9 3-5-10

4x5 =

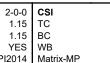




7-11-2

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	IRC2015/TP



BRACING

TOP CHORD

BOT CHORD

DEFL in (loc) I/c 0.19 Vert(LL) n/a 0.19 Vert(TL) n/a 0.08 Horiz(TL) 0.00 3

Installation guide.

defl	L/d	PLATES
n/a	999	MT20
n/a	999	
n/a	n/a	
		Weight: 26 lb

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

Structural wood sheathing directly applied or 7-11-2 oc purlins.

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



FT = 20%

Page: 1

LUMBER

REACTIONS (lb/size)

BCLL

BCDL

Scale = 1:24.7

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

2x4 SP No.3

0.0*

10.0

1=36/7-11-2, (min. 0-1-8), 3=40/7-11-2, (min. 0-1-8),

4=461/7-11-2, (min. 0-1-8)

Max Horiz 1=-43 (LC 11)

Max Uplift 1=-8 (LC 33), 3=-8 (LC 11), 4=-1 (LC 15) Max Grav 1=71 (LC 32), 3=75 (LC 33), 4=545 (LC 2)

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

TOP CHORD 2-10=-48/254 WEBS 2-4=-387/120

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) 0-0-7 2) to 3-0-7, Interior (1) 3-0-7 to 4-0-0, Exterior (2) 4-0-0 to 6-11-1, Interior (1) 6-11-1 to 7-11-9 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 6) any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 8 lb uplift at joint 3 and 1 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
22050131	VL15	Valley	1	1	Job Reference (optional)

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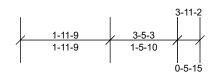
Structural wood sheathing directly applied or 3-11-2 oc purlins.

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.

Installation guide.



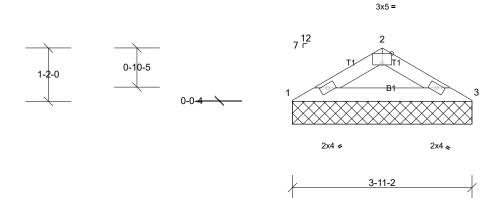


Plate Offsets (X, Y): [2:0-2-8,Edge]

Scale = 1:25.2

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	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-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

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

REACTIONS (lb/size) 1=133/3-11-2, (min. 0-1-8), 3=133/3-11-2, (min. 0-1-8)

Max Horiz 1=-20 (LC 11)

Max Grav 1=157 (LC 2), 3=157 (LC 2)

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

1-2=-250/58 TOP CHORD

FORCES NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; 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 (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.