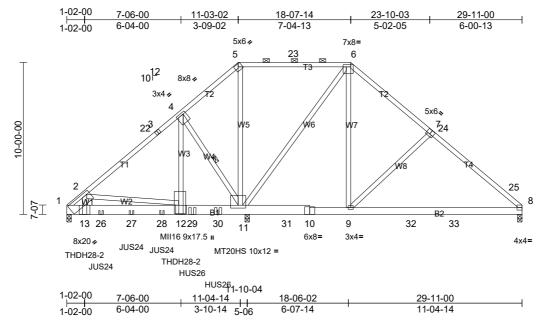
Truss Truss Type Qty Ply 2 20110098JR G01 Piggyback Base Girder Job Reference (optional)

> Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:kAY2dkqLj??NvG1cIU?q8eyKDph-CW0CZ29nrGOoDOT7JrkXMUigjmLZpXIm?Luz2xzky4n

Page: 1



Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	-0.08	9-19	>999	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.16	9-19	>999	240	MII16	127/82
TCDL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.01	11	n/a	n/a	MT20HS	148/108
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0			I							Weight: 361 lb	FT = 20%

LUMBER

BRACING

FORCES

Scale = 1:76.1

TOP CHORD 2x4 SPF No.2

2x8 SP 2400F 2.0E *Except* 10-8:2x6 SPF BOT CHORD

No.2

WEBS 2x4 SPF No.2 *Except* 4-12:2x4 SPF 1650F

Structural wood sheathing directly applied or TOP CHORD

4-2-9 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 5-6.

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

bracing.

WFBS 1 Row at midpt 4-11

1=3-08, (min. 3-01), 8=3-08, (min. **REACTIONS** (size)

1-08), 11=3-08, (req. 4-10)

Max Horiz 1=-181 (LC 7)

Max Uplift 8=-445 (LC 49)

Max Grav 1=7434 (LC 42), 8=375 (LC 34),

11=11142 (LC 42) (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD

1-2=-7488/0, 2-22=-3915/0, 3-22=-3629/0,

3-4=-3605/0, 4-5=0/1797, 5-23=0/1344,

6-23=0/1344, 6-7=0/863, 7-24=0/663,

24-25=-22/656, 8-25=-189/606

BOT CHORD 1-13=-31/5911, 13-26=0/6171, 26-27=0/6171, 27-28=0/6171, 12-28=0/6171, 12-29=0/3198, 11

29-30=0/3198. 11-30=0/3198. 11-31=-568/89 10-31=-569/89, 9-10=-573/88, 9-32=-444/17,

32-33=-444/17, 8-33=-444/17

WFBS 2-13=0/2984, 2-12=-3274/129, 4-12=0/9330,

4-11=-7855/0, 5-11=-1473/0, 6-9=-196/490,

6-11=-1484/104, 7-9=-605/191

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 6-00 oc. Bottom chords connected as follows: 2x8 - 4 rows staggered at 5-00 oc, 2x6 - 2 rows staggered at 9-00 oc. Web connected as follows: 2x4 - 1 row at 9-00 oc Except member 2-13 2x4 - 2 rows staggered at 2-00 oc, member 4-12 2x4 - 2 rows staggered at 5-00 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding. 7)
- All plates are MT20 plates unless otherwise indicated
- The Fabrication Tolerance at joint 12 = 16%
- 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, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral
- 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use USP THDH28-2 (With 36-16d nails into Girder & 10-16d nails into Truss) or equivalent spaced at 6-4-0 oc max. starting at 1-2-0 from the left end to 7-6-0 to connect truss(es) to back face of bottom chord.

- 16) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-0 from the left end to 6-3-0 to connect truss(es) to back face of bottom chord.
- 17) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 1-8-4 oc max. starting at 8-3-0 from the left end to 9-11-4 to connect truss(es) to back face of bottom chord.
- 18) 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)

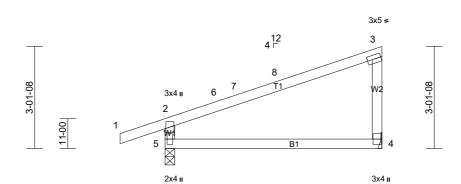
Vert: 5-16=-66, 5-6=-66, 6-20=-66, 1-8=-20

Concentrated Loads (lb)

Vert: 13=-4566 (B), 12=-4594 (B), 26=-451 (B), 27=-451 (B), 28=-451 (B), 29=-2177 (B), 30=-2177

Job	Truss	Truss Type	Qty	Ply	
20110098JR	J01	Jack-Closed	5	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:gwR9KrXsst8FZTMBIZ_4ewyKEuV-CW0CZ29nrGOoDOT7JrkXMUinOmN?pi1m?Luz2xzky4n



6-07-08

Sca	le =	1:35	.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.10	4-5	>793	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.08	4-5	>990	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (size)

4= Mechanical, (min. 1-08), 5=3-08. (min. 1-08)

Max Horiz 5=76 (LC 9)

Max Uplift 4=-91 (LC 9), 5=-111 (LC 9)

Max Grav 4=302 (LC 2), 5=453 (LC 2)

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

(lb) or less except when shown.

TOP CHORD 2-5=-407/159

NOTES

FORCES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 2-2-13, Exterior (2) 2-2-13 to 6-5-12 zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 23.1 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.

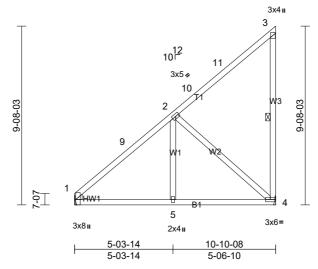
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
20110098JR	J02	Jack-Closed	3	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:laotXHuIvWJJizaT6a3WxMzkyLv-CW0CZ29nrGOoDOT7JrkXMUjoamNJpcJm?Luz2xzky4n





Scale = 1:62.6

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.05	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	1	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 52 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEDGE Left: 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

WEBS 1 Row at midpt 3-

REACTIONS (size) 1= Mechanical, (min. 1-08), 4=

Mechanical, (min. 1-08)
Max Horiz 1=270 (LC 12)

Max Uplift 4=-116 (LC 13)

Max Grav 1=536 (LC 2), 4=554 (LC 29)

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

(lb) or less except when shown.

TOP CHORD 1-9=-591/59, 2-9=-407/77 BOT CHORD 1-5=-179/396, 4-5=-100/396

WEBS 2-4=-484/165

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-5-13, Exterior (2) 6-5-13 to 10-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.

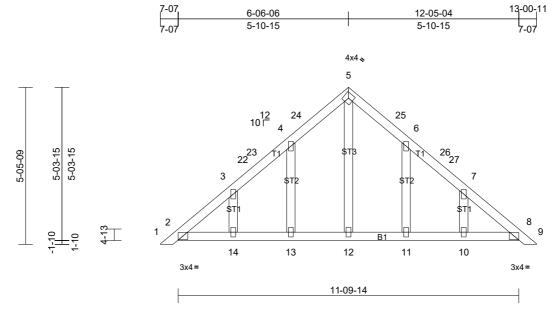
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
20110098JR	PB01	Piggyback	1	1	Job Reference (optional)

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Page: 1



Scale = 1:40.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 49 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

REACTIONS All bearings 11-09-14.

(lb) - Max Horiz 2=-102 (LC 11), 15=-102 (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, 15, 19

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

NOTES

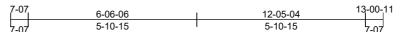
- This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-6-10, Exterior (2) 3-6-10 to 9-6-10, Interior (1) 9-6-10 to 9-10-7, Exterior (2) 9-10-7 to 12-10-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.

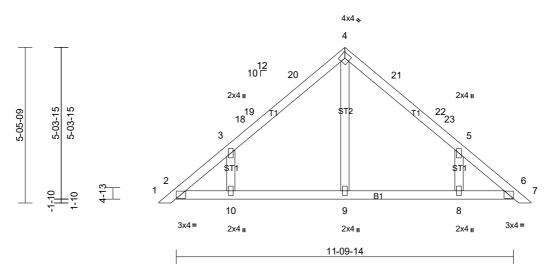
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, 14, 11, and 10. 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.
- 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	
20110098JR	PB02	Piggyback	13	1	Job Reference (optional)

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Scale = 1:40.6

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 41 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS All bearings 11-09-14.

(lb) - Max Horiz 2=-102 (LC 11), 11=-102 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 11, 15 except 8=-125 (LC 14), 10=-126 (LC 13)

Max Grav All reactions 250 (lb) or less at joint 11) This truss is designed in accordance with the 2015 (s) 2, 6, 11, 15 except 8=360 (LC 28), 9=306 (LC 2), 10=361 (LC 27)

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

(lb) or less except when shown. **WEBS** 3-10=-304/162, 5-8=-303/162

- 1) This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-6-10, Exterior (2) 3-6-10 to 9-6-10, Interior (1) 9-6-10 to 9-10-7, Exterior (2) 9-10-7 to 12-10-7 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
- 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=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 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.
- 10) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- 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.

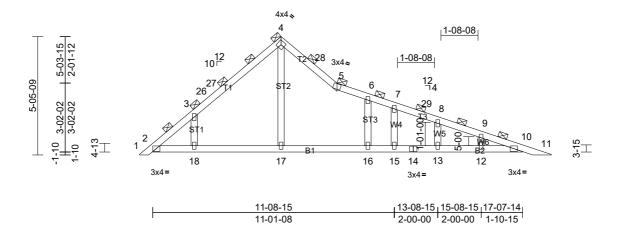
LOAD CASE(S) Standard

Job Truss Truss Type Qty Ply 2 **PB03** 20110098JR 6 Piggyback Job Reference (optional)

> Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID: tktaJkjPEUxamHhzP4kWU5yKErg-CW0CZ29nrGOoDOT7JrkXMUir4mQbph0m?Luz2xzky4nrGOoDOT7Qbph0m

Page: 1





Scale = 1:53.3

Loading	(psf)	Spacing	3-00-00	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	23	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0	ļ		I							Weight: 116 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)

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

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

bracing

REACTIONS All bearings 17-00-07.

(lb) - Max Horiz 2=-169 (LC 11), 19=-169 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s)

2, 10, 12, 13, 15, 17, 19, 23 except 16=-112 (LC 14), 18=-189 (LC 13) Max Grav All reactions 250 (lb) or less at joint

(s) 2, 10, 15, 19, 23 except 12=286 (LC 2), 13=333 (LC 2), 16=495 (LC 2), 17=760 (LC 2), 18=549 (LC 20)

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

(lb) or less except when shown.

TOP CHORD 2-3=-198/296, 4-27=-6/300, 4-28=-18/286 WFRS

4-17=-631/97, 3-18=-473/242.

6-16=-398/161, 8-13=-268/83

NOTES

- 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 9-00 oc Bottom chords connected as follows: 2x4 - 1 row at 9-00
- Web connected as follows: 2x4 1 row at 9-00 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- This truss has been checked for uniform roof live load only, except as noted

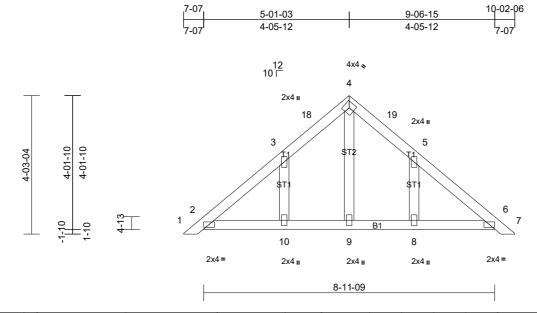
- 4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-6-10, Exterior (2) 3-6-10 to 9-1-9, Interior (1) 9-1-9 to 15-6-15, Exterior (2) 15-6-15 to 18-6-15 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=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.;
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 10) Gable requires continuous bottom chord bearing.
- 11) Gable studs spaced at 4-0-0 oc.
- 12) * 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.
- 13) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, 17, 18, 16, 12, 13, and 15. This connection is for uplift only and does not consider lateral forces.
- 14) 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	
20110098JR	PB04	Piggyback	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:6Tw Cpq27F4ILftiRTOeL?yKErX-CW0CZ29nrGOoDOT7JrkXMUitFmQjpicm?Luz2xzky4n

Page: 1



Scale = 1:35.6

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 34 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

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

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

bracing.

REACTIONS All bearings 8-11-09.

(lb) - Max Horiz 2=-79 (LC 11), 11=-79 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s)

2, 8, 10, 11

Max Grav All reactions 250 (lb) or less at joint (s) 2, 6, 9, 11, 15 except 8=276 (LC

2), 10=276 (LC 2)

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

(lb) or less except when shown.

NOTES

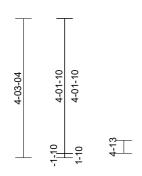
- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 23.1 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.

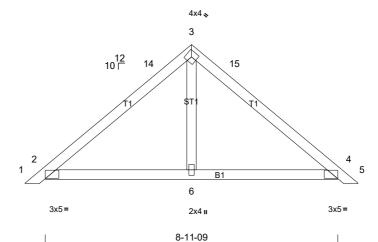
- 8) Gable studs spaced at 2-0-0 oc.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, and 8. 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.
- 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	
20110098JR	PB05	Piggyback	5	1	Job Reference (optional)

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Scale = 1:35.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins. **BOT CHORD**

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

REACTIONS All bearings 8-11-09.

(lb) - Max Horiz 2=-79 (LC 11), 7=-79 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s)

2, 4, 7, 11

Max Grav All reactions 250 (lb) or less at joint (s) except 2=331 (LC 2), 4=331 (LC 2), 6=301 (LC 2), 7=331 (LC 2),

11=331 (LC 2)

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

(lb) or less except when shown.

TOP CHORD 2-14=-269/80, 4-15=-269/80

NOTES

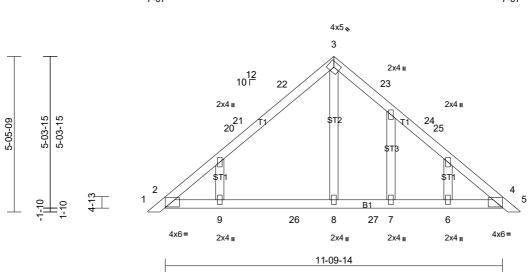
- 1) This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct = 1.10
- Unbalanced snow loads have been considered for this design.

- 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 23.1 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 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.
- 10) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider
- 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	
20110098JR	PB06	Piggyback	1	1	Job Reference (optional)

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-07 6-06-06 12-05-04 13-00-11 -07 5-10-15 5-10-15 7.07



Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 45 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS All bearings 11-09-14.

(lb) - Max Horiz 2=-102 (LC 11), 13=-102 (LC 11) 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 9, 13, 17 except 6=-103 (LC 9)

14)

Max Grav All reactions 250 (lb) or less at joint (s) 7, 8 except 2=349 (LC 2), 4=345 (LC 2), 6=269 (LC 28), 9=264 (LC 27), 13=349 (LC 2),

17=345 (LC 2)

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

TOP CHORD 2-20=-477/89, 20-21=-345/79,

21-22=-324/81, 3-22=-266/98, 3-23=-266/98, 23-24=-324/81, 24-25=-345/79, 4-25=-477/77

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-6-10, Exterior (2) 3-6-10 to 9-6-10, Interior (1) 9-6-10 to 9-10-7, Exterior (2) 9-10-7 to 12-10-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 23.1 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) * 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.
- 10) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 4, 9, 7, and 6. 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.

LOAD CASE(S) Standard

 Job
 Truss
 Truss Type
 Qty
 Ply

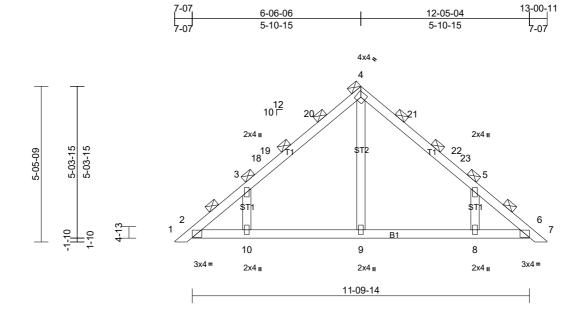
 20110098JR
 PB07
 Piggyback
 2
 2

Ply

Job Reference (optional)

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Page: 1



Loading	(psf)	Spacing	3-08-04	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0	I									Weight: 83 lb	FT = 20%
					_							

LUMBER

Scale = 1:40.6

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)

(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 11-09-14.

(lb) - Max Horiz 2=188 (LC 12), 11=188 (LC 12) Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 11, 15 except 8=-230 (LC 14), 10=-231 (LC 13)

Max Grav All reactions 250 (lb) or less at joint (s) 2, 6, 11, 15 except 8=663 (LC 28), 9=565 (LC 2), 10=665 (LC 27)

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

(lb) or less except when shown. 3-18=-319/112, 5-23=-319/104

TOP CHORD 3-18=-319/112, 5-23=-319/104 WEBS 4-9=-403/1, 3-10=-559/299, 5-8=-558/298

NOTES

- 2-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 9-00 oc.
 Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 9-00 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.
- This truss has been checked for uniform roof live load only, except as noted.

- 4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-6-10, Exterior (2) 3-6-10 to 9-6-10, Interior (1) 9-6-10 to 9-10-7, Exterior (2) 9-10-7 to 12-10-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 6) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Cf=1.10
- Unbalanced snow loads have been considered for this design.
- 8) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 9) Gable requires continuous bottom chord bearing
- 10) Gable studs spaced at 4-0-0 oc.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- 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.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

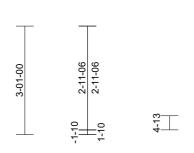


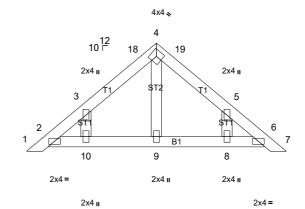
Job	Truss	Truss Type	Qty	Ply	
20110098JR	PB08	Piggyback	1	1	Job Reference (optional)

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Page: 1

7-07	3-08-01	7-0	4-03
7-07	3-00-11	3-00-11	-07





6-01-06

Scale = 1:32.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

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

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

REACTIONS All bearings 6-01-06.

(lb) - Max Horiz 2=56 (LC 12), 11=56 (LC 12) Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 8, 10, 11, 15

Max Grav All reactions 250 (lb) or less at joint (s) 2, 6, 8, 9, 10, 11, 15

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

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 3) Gable studs spaced at 2-0-0 oc.

- 9) * 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 RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

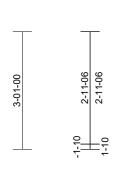


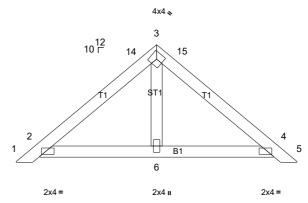
Job	Truss	Truss Type	Qty	Ply	
20110098JR	PB09	Piggyback	5	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:v_Ci7VBMB9edFdHBMwOMl6yKEoU-CW0CZ29nrGOoDOT7JrkXMUitXmPWpipm?Luz2xzky4n

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7-07	3-08-01	6-08-12	7-04-03
7-07	3-00-11	3-00-11	7-07





6-01-06

Scale = 1:30.3

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

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

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

bracing.

REACTIONS All bearings 6-01-06.

(lb) - Max Horiz 2=56 (LC 12), 7=56 (LC 12) Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11

Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6, 7, 11

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

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 23.1 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 3) Gable studs spaced at 4-0-0 oc.

- 9) * 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 RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces
- 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.

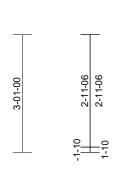


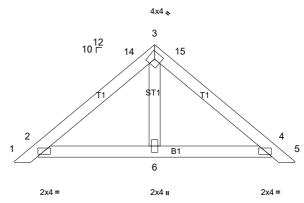
Job Truss Truss Type Qty Ply
20110098JR PB10 Piggyback 1 2 Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:0UVcsxLW89Hnldnhc87PnsyKEoH-CW0CZ29nrGOoDOT7JrkXMUiuQmPSpi1m?Luz2xzky4n

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7-07	3-08-01	6-08-12	7-04-03
7-07	3-00-11	3-00-11	7-07





6-01-06

Scale = 1:30.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	İ		ļ							Weight: 41 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.
BOT CHORD Rigid ceiling dire

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

REACTIONS All bearings 6-01-06.

(lb) - Max Horiz 2=56 (LC 12), 7=56 (LC 12) Max Uplift All uplift 100 (lb) or less at joint(s)

2, 4, 7, 11

Max Grav All reactions 250 (lb) or less at joint (s) 6 except 2=271 (LC 2), 4=271 (LC 2), 7=271 (LC 2), 11=271 (LC

(lb) - Max

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

FORCES NOTES

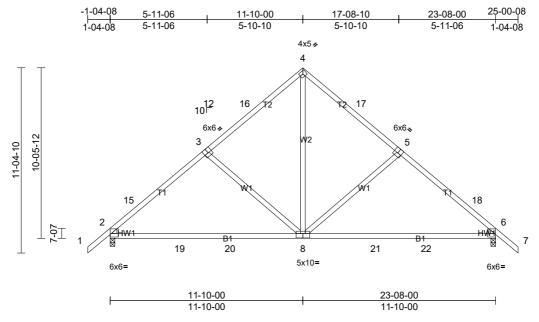
- 2-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 9-00 oc.
 Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 9-00 oc.
- 2) All loads are considered equally applied to all plies, except if noted as 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.
- This truss has been checked for uniform roof live load only, except as noted.
- 4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 5) 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=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 8) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 4-0-0 oc.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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.
- 14) 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	
20110098JR	T01	Common	12	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:yiOyk7kTh_PoE1Xwm?j_LbyKEqN-CW0CZ29nrGOoDOT7JrkXMUimCmB6pbvm?Luz2xzky4n

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Scale = 1:71.1

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.28	8-11	>999	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.58	8-11	>490	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE Left: 2x4 SPF No.2
Bight: 2x4 SPF No.2

Right: 2x4 SPF No.2

BRACING TOP CHORD

RD Structural wood sheathing directly applied or

4-8-6 oc purlins.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

REACTIONS (size) 2=3-08, (min. 2-00), 6=3-08, (min.

2-00)

Max Horiz 2=213 (LC 12)

Max Uplift 2=-77 (LC 13), 6=-77 (LC 14) Max Grav 2=1293 (LC 2), 6=1293 (LC 2)

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

TOP CHORD 2-15=-1447/97, 3-15=-1249/128,

3-16=-1104/125, 4-16=-937/145,

4-17=-937/145, 5-17=-1104/125,

5-18=-1249/128, 6-18=-1447/97

2-19=-126/1085, 19-20=-103/1085,

8-20=-103/1085, 8-21=-11/1020,

21-22=-11/1020, 6-22=-11/1020 4-8=-63/817, 5-8=-423/199, 3-8=-423/199

WEBS NOTES

BOT CHORD

- This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 8-10-0, Exterior (2) 8-10-0 to 14-10-0, Interior (1) 14-10-0 to 22-0-8, Exterior (2) 22-0-8 to 25-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

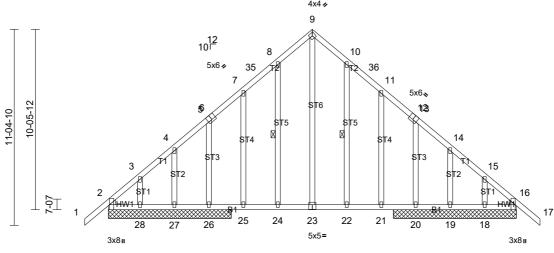
- B) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 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 RT4 USP 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.
- 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 Type Truss Qty Ply 20110098JR T01GE Common Supported Gable Job Reference (optional)

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Scale = 1:67.2

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.06	24-25	>999	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.09	24-25	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02	16	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 135 lb	FT = 20%

23-08-00

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **OTHERS** WEDGE Left: 2x4 SPF No.2 Right: 2x4 SPF No.2

BRACING

WEBS

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.

1 Row at midpt 8-24, 10-22

REACTIONS All bearings 7-01-08.

(lb) - Max Horiz 2=-213 (LC 11), 29=-213 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s)

19, 27 except 18=-112 (LC 14), 20=-172 (LC 14), 26=-175 (LC 13),

28=-112 (LC 13)

Max Grav All reactions 250 (lb) or less at joint 5) (s) 18, 19, 27, 28 except 2=595 (LC 2), 16=595 (LC 2), 20=545 (LC 28), 6)

26=548 (LC 27), 29=595 (LC 2),

32=595 (LC 2)

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

2-3=-545/28, 3-4=-526/0, 4-5=-487/4, 5-6=-577/4, 6-7=-573/16, 7-35=-512/41 TOP CHORD

8-35=-472/49, 8-9=-472/97, 9-10=-472/97, 10-36=-472/48, 11-36=-512/39, 11-12=-573/14, 12-13=-577/3, 13-14=-487/1,

14-15=-526/0, 15-16=-543/0

BOT CHORD 2-28=-84/418, 27-28=0/418, 26-27=0/418 25-26=0/418, 24-25=0/418, 23-24=0/418,

22-23=0/418, 21-22=0/418, 20-21=0/418, 19-20=0/418, 18-19=0/418, 16-18=0/418

WEBS 9-23=-57/305, 5-26=-303/129,

13-20=-302/128

NOTES 1) This truss has been checked for uniform roof live load only, except as noted.

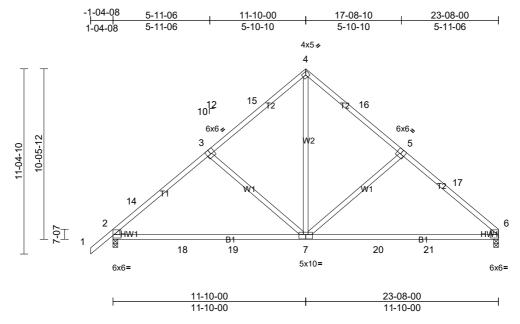
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-8 to 1-10-0, Interior (1) 1-10-0 to 8-10-0, Exterior (2) 8-10-0 to 14-10-0, Interior (1) 14-10-0 to 21-10-0, Exterior (2) 21-10-0 to 25-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 26, 27, 28, 20, 19, and 18. 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
20110098JR	T02	Common	2	1	Job Reference (optional)

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Loading	(psf)	Spacing	2-00-00	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.28	7-13	>999	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.59	7-13	>482	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 94 lb	FT = 20%

LUMBER

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

Right: 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-3 oc purlins.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

REACTIONS (size) 2=3-08, (min. 2-01), 6=3-08, (min.

1-14)

Max Horiz 2=206 (LC 12) Max Uplift 2=-77 (LC 13), 6=-54 (LC 14)

Max Grav 2=1297 (LC 2), 6=1180 (LC 2)

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

(lb) or less except when shown.

TOP CHORD 2-14=-1453/101, 3-14=-1254/133,

3-15=-1110/131, 4-15=-942/150,

4-16=-942/150, 5-16=-1111/131,

5-17=-1230/136, 6-17=-1456/116

2-18=-137/1077, 18-19=-118/1077,

7-19=-118/1077, 7-20=-27/1031,

20-21=-27/1031, 6-21=-27/1031

WEBS 4-7=-72/825, 5-7=-432/202, 3-7=-423/199

NOTES

BOT CHORD

FORCES

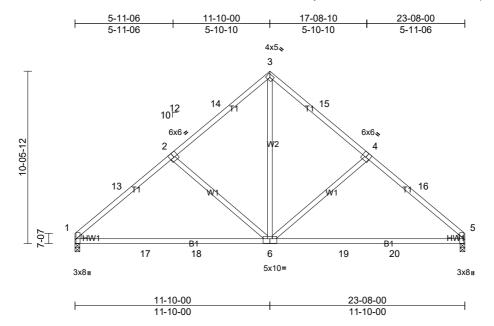
- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 8-10-0, Exterior (2) 8-10-0 to 14-10-0, Interior (1) 14-10-0 to 20-8-0, Exterior (2) 20-8-0 to 23-8-0 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=1.60

- 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 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 RT4 USP 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.



Job	Truss	Truss Type	Qty	Ply	
20110098JR	Т03	Common	2	1	Job Reference (optional)

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Scale = 1:70.3

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.26	6-12	>999	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.55	6-12	>512	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	1	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 92 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF No.2 WEBS WEDGE Left: 2x4 SPF No.2 Right: 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins.

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

REACTIONS (size) 1=3-08, (min. 1-14), 5=3-08, (min. 1-14)

Max Horiz 1=-191 (LC 9)

Max Uplift 1=-54 (LC 13), 5=-54 (LC 14) Max Grav 1=1183 (LC 2), 5=1183 (LC 2)

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

(lb) or less except when shown.

TOP CHORD 1-13=-1461/108, 2-13=-1235/140, 2-14=-1117/137, 3-14=-948/155,

3-15=-948/155, 4-15=-1117/137,

4-16=-1235/140, 5-16=-1461/108 1-17=-161/1086, 17-18=-121/1086,

6-18=-121/1086, 6-19=-28/1035,

19-20=-28/1035, 5-20=-28/1035

WEBS 3-6=-81/832, 2-6=-430/202, 4-6=-430/202

NOTES

BOT CHORD

FORCES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-10-0, Exterior (2) 8-10-0 to 14-10-0, Interior (1) 14-10-0 to 20-8-0, Exterior (2) 20-8-0 to 23-8-0 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=1.60

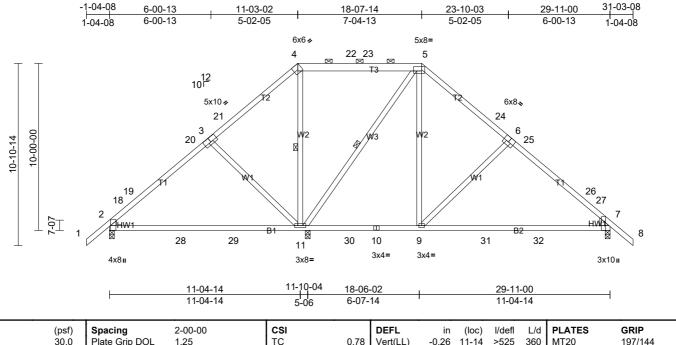
- 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- * This truss has been designed for 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 RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. 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.



Job Truss Type Truss Qty Ply 20110098JR T04 Piggyback Base 5 Job Reference (optional)

> Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:oNcmNkUsEk?bywOYZAID2TyKEmq-CW0CZ29nrGOoDOT7JrkXMUii9mlcpZYm?Luz2xzky4n

Page: 1



Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.26	11-14	>525	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.56	11-14	>243	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 137 lb	FT = 20%

LUMBER

Scale = 1:69.2

TOP CHORD 2x4 SPF No.2 *Except* 4-5:2x6 SPF No.2

2x4 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF No.2 WEBS

WEDGE Left: 2x4 SPF No.2 Right: 2x6 SPF No.2

BRACING

TOP CHORD

Structural wood sheathing directly applied or 4-2-13 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-5.

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

bracing.

WEBS 1 Row at midnt 4-11 5-11

REACTIONS (size) 2=3-08, (min. 1-08), 7=3-08, (min. 1-11), 11=3-08, (min. 2-00)

Max Horiz 2=-204 (LC 11) Max Uplift 2=-9 (LC 13), 7=-85 (LC 9),

11=-167 (LC 10)

Max Grav 2=976 (LC 39), 7=1311 (LC 39),

11=1412 (LC 39)

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

(lb) or less except when shown.

TOP CHORD 2-18=-932/63, 18-19=-892/63,

19-20=-840/91, 3-20=-655/95, 3-21=-567/84, 4-21=-471/114, 4-22=-357/134, 22-23=-357/134, 5-23=-357/134

5-24=-819/362, 6-24=-1007/332 6-25=-1094/347, 25-26=-1286/322, 26-27=-1378/320, 7-27=-1452/316

BOT CHORD 2-28=-141/744, 28-29=-64/744,

11-29=-64/744, 11-30=-34/683,

10-30=-34/683, 9-10=-34/683, 9-31=-152/988, 31-32=-152/988,

7-32=-152/988

3-11=-611/187, 4-11=-371/171, 5-9=-361/664, LOAD CASE(S) Standard WEBS

6-9=-597/185, 5-11=-668/317

NOTES

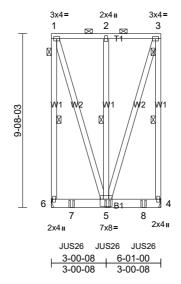
This truss has been checked for uniform roof live load only, except as noted.

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 7-0-3, Exterior (2) 7-0-3 to 22-10-13, Interior (1) 22-10-13 to 28-3-8, Exterior (2) 28-3-8 to 31-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 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, with BCDL = 10.0psf.
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, and 7. 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	
20110098JR	T05	Flat Girder	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:msLFldvwigRAL6FggNalUazkvLu-CW0CZ29nrGOoDOT7JrkXMUinmmKRpZ0m?Luz2xzkv4n

3-00-08 6-01-00 3-00-08 3-00-08



Scale = 1:64.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.01	5-6	>999	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.02	5-6	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 70 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except

end verticals

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

bracing.

WEBS 1 Row at midpt 1-6, 3-4, 2-5

REACTIONS (size) 4= Mechanical, (min. 1-08), 6=

Mechanical, (min. 1-08) Max Horiz 6=-263 (LC 7)

Max Uplift 4=-433 (LC 8), 6=-427 (LC 7)

Max Grav 4=1176 (LC 24), 6=1144 (LC 25)

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

TOP CHORD 1-6=-801/362, 3-4=-801/362

1-5=-354/776, 2-5=-273/77, 3-5=-354/776 **WEBS**

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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 427 lb uplift at joint 6 and 433 lb uplift at joint 4.

- 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.
- 11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-1-8 from the left end to 5-1-8 to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 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=-66, 4-6=-20

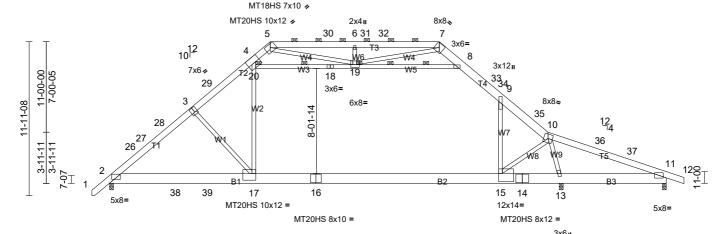
Concentrated Loads (lb)

Vert: 5=-508 (B), 7=-508 (B), 8=-510 (B)

Job Truss Truss Type Qty Ply 20110098JR T06 Attic Job Reference (optional)

> Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:x265fhHJ8WnSLpHBozT9buyKEkV-CW0CZ29nrGOoDOT7JrkXMUig2mG7pUpm?Luz2xzky4nrGOoDOT7GOODOT7GO

30-03-12 12-05-08 -1-04-08 44-06-08 6-07-06 11-02-04 19-00-02 43-02-00 25-06-13 34-00-00 1-04-08 6-07-06 4-06-14 1-03-04 6-06-10 6-06-11 3-08-04 9-02-00 1-04-07 1-04-08 3-04-08 18-10-00



35-306-64 11-02-04 30-03-12 43-02-00 11-02-04 19-01-08 4-06-11 1-13 8-01-12 Scale = 1:89.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.61	15-17	>687	360	MT18HS	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.90	15-17	>469	240	MT20	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.04	13	n/a	n/a	MT20HS	187/143
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.48	15-17	>480	360		
BCDL	10.0	I		I							Weight: 344 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 3-5:2x6 SP 2400F

2.0E. 7-10:2x8 SPF No.2

BOT CHORD 2x10 SP 2400F 2.0E **WEBS** 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (3-3-2 max.): 5-7. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 19-20

WFBS 2 Rows at 1/3 pts 8-19 1 Brace at Jt(s): 19, JOINTS

REACTIONS (size) 2=3-08, (min. 2-01), 11=3-08, (min. 1-08), 13=3-08, (min. 2-06)

> Max Horiz 2=-224 (LC 11) Max Uplift 11=-283 (LC 10)

Max Grav 2=2474 (LC 51), 11=753 (LC 49), 13=2905 (LC 3)

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

TOP CHORD 2-26=-3529/0, 26-27=-3432/0

27-28=-3431/0, 3-28=-3251/0, 3-29=-3194/0,

4-29=-3050/0, 4-5=-1901/57, 5-30=-3404/193, 6-30=-3404/193, 6-31=-3404/193, 31-32=-3404/193, 7-32=-3404/193, 7-8=-1326/264,

8-33=-2413/0, 33-34=-2486/0, 9-34=-2502/0, 9-35=-3008/0, 10-35=-3149/0,

10-36=-890/438, 36-37=-892/412,

11-37=-937/400

2-38=0/2710, 38-39=0/2710, 17-39=0/2710, BOT CHORD 16-17=0/2286, 15-16=0/2286

14-15=-151/1329, 13-14=-151/1329, 11-13=-376/846

WEBS 3-17=-829/172, 17-20=0/1749, 4-20=0/1813,

9-15=-241/1065, 10-15=0/1678, 18-20=-340/5, 18-19=-325/14, 8-19=-2608/0, 5-19=-941/1707, 6-19=-742/169,

7-19=-7/2615, 10-13=-3526/0

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-5 to 3-0-8, Interior (1) 3-0-8 to 8-1-11, Exterior (2) 8-1-11 to 16-9-5, Interior (1) 16-9-5 to 21-3-0, Exterior (2) 21-3-0 to 29-10-10, Interior (1) 29-10-10 to 40-2-11, Exterior (2) 40-2-11 to 44-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10. Lu=50-0-0
- 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 23.1 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 8-9, 9-10, 19-20, 8-19; Wall dead load (5.0psf) on member (s).17-20.9-15
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17
- 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. 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) NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM, THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE. BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS. TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING.

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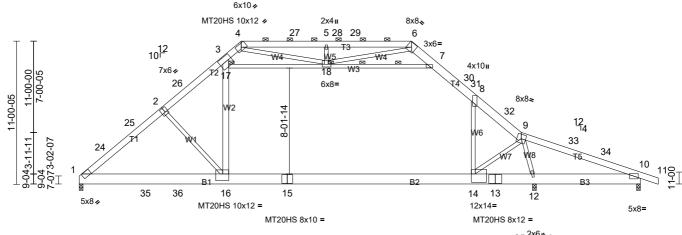
15) Attic room checked for L/360 deflection.



Job Truss Truss Type Qty Ply 20110098JR T07 Attic 5 Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18





35-00-04 11-03-04 30-03-12 34-10-07 43-02-00 11-03-04 19-00-08 4-06-11 1-13 8-01-12 Scale = 1:89.1

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.59	14-16	>708	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.86	14-16	>486	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.47	14-16	>488	360		
BCDL	10.0			l							Weight: 345 lb	FT = 20%

LUMBER

2x6 SPF No.2 *Except* 2-4:2x6 SP 2400F TOP CHORD

2.0E. 6-9:2x8 SPF No.2

2x10 SP 2400F 2.0E **BOT CHORD WEBS** 2x4 SPF No.2 *Except* 3-16:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-7-8 oc purlins, except

2-0-0 oc purlins (3-3-15 max.): 4-6. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

2 Rows at 1/3 pts 7-18

WEBS JOINTS 1 Brace at Jt(s): 17.

18

REACTIONS (size) 1=3-08, (min. 2-00), 10=3-08, (min.

1-08), 12=3-08, (min. 2-06)

Max Horiz 1=-217 (LC 11) Max Uplift 10=-273 (LC 10)

Max Grav 1=2407 (LC 51), 10=771 (LC 2),

12=2844 (LC 3)

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

(lb) or less except when shown.

TOP CHORD 1-24=-3498/0, 24-25=-3386/0, 2-25=-3220/0, 2-26=-3159/0, 3-26=-3014/0, 3-4=-1750/63,

4-27=-3317/208, 5-27=-3317/208

5-28=-3317/208, 28-29=-3317/208, 6-29=-3317/208, 6-7=-1286/272,

7-30=-2419/0, 30-31=-2493/0, 8-31=-2508/0, 8-32=-3037/0, 9-32=-3187/0, 9-33=-952/396,

33-34=-954/384, 10-34=-999/373

BOT CHORD 1-35=0/2675, 35-36=0/2675, 16-36=0/2675,

15-16=0/2298, 14-15=0/2298,

13-14=-129/1387, 12-13=-129/1387,

10-12=-290/905

2-16=-759/180, 16-17=0/1674, 3-17=0/1752,

8-14=-190/1102, 9-14=0/1586, 17-18=-622/4, 7-18=-2707/0 4-18=-843/1772

5-18=-757/164, 6-18=-19/2568, 9-12=-3459/0

NOTES

WFBS

This truss has been checked for uniform roof live load only, except as noted.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 4-5-9, Interior (1) 4-5-9 to 8-1-11, Exterior (2) 8-1-11 to 16-9-5, Interior (1) 16-9-5 to 21-3-0, Exterior (2) 21-3-0 to 29-10-10, Interior (1) 29-10-10 to 40-2-11, Exterior (2) 40-2-11 to 44-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads
- 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 7-8, 8-9, 17-18, 7-18; Wall dead load (5.0psf) on member (s).16-17, 8-14
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16
- 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. 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) NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM, THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE. BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS. TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING.

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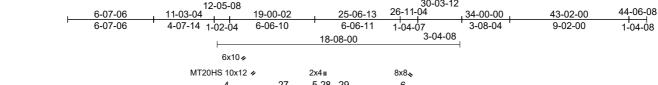
15) Attic room checked for L/360 deflection.

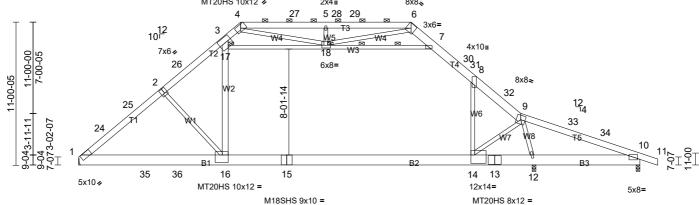


Job Truss Truss Type Qty Ply 20110098JR T07A Attic Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18

30-03-12 26-11-04





35-000-04 11-03-04 30-03-12 43-02-00 11-03-04 19-00-08 4-06-11 1-13 8-01-12 Scale = 1:89.1

only, except as noted.

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.94	Vert(LL)	-0.62	14-16	>679	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.89	14-16	>468	240	M18SHS	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	12	n/a	n/a	MT20HS	148/108
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.50	14-16	>461	360		
BCDL	10.0										Weight: 331 lb	FT = 20%

1) This truss has been checked for uniform roof live load

Wind: ASCE 7-10; Vult=115mph (3-second gust)

Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat.

II; Exp B; Enclosed; MWFRS (envelope) exterior zone

LUMBER

2x6 SPF No.2 *Except* 2-4:2x6 SP 2400F TOP CHORD

2.0E. 6-9:2x8 SPF No.2

BOT CHORD 2x10 SP 2400F 2.0E *Except* 1-15:2x10

SPF No.2

WEBS 2x4 SPF No.2 *Except* 3-16:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (3-3-15 max.): 4-6. **BOT CHORD**

Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 2 Rows at 1/3 pts 7-18 1 Brace at Jt(s): 17, JOINTS

18

REACTIONS (size) 1= Mechanical, (min. 1-08), 10=3-08, (min. 1-08), 12=3-08,

(min. 2-06)

Max Horiz 1=-217 (LC 11)

Max Uplift 10=-278 (LC 10)

Max Grav 1=2407 (LC 51), 10=784 (LC 2),

12=2857 (LC 3)

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

(lb) or less except when shown.

1-24=-3513/0, 24-25=-3409/0, 2-25=-3235/0, TOP CHORD

2-26=-3174/0, 3-26=-3019/0, 3-4=-1759/65, 4-27=-3320/207, 5-27=-3320/207, 5-28=-3320/207, 28-29=-3320/207,

6-29=-3320/207, 6-7=-1282/273, 7-30=-2421/0, 30-31=-2494/0, 8-31=-2510/0,

8-32=-3039/0, 9-32=-3194/0, 9-33=-1001/410, 33-34=-1003/398,

10-34=-1048/387

1-35=0/2696, 35-36=0/2696, 16-36=0/2696, BOT CHORD

15-16=0/2300, 14-15=0/2300,

13-14=-140/1417, 12-13=-140/1417, 10-12=-303/951

WEBS 2-16=-776/182, 16-17=0/1692, 3-17=0/1770,

7-18=-2722/0, 4-18=-855/1756

5-18=-757/164, 6-18=-22/2580, 9-12=-3481/0

and C-C Exterior (2) 0-0-12 to 4-4-9, Interior (1) 4-4-9 to 8-1-11, Exterior (2) 8-1-11 to 16-9-5, Interior (1) 16-9-5 to 21-3-0, Exterior (2) 21-3-0 to 29-10-10, Interior (1)

29-10-10 to 40-2-11, Exterior (2) 40-2-11 to 44-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber

DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0

- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 7-8, 8-9, 17-18, 7-18; Wall dead load (5.0psf) on member (s).16-17, 8-14
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16
- 11) Refer to girder(s) for truss to truss connections.
- 12) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
- 8-14=-188/1108, 9-14=0/1608, 17-18=-617/4, 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.

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

Page: 1

- 15) NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM. THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS. TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING
- 16) Attic room checked for L/360 deflection.



Job Truss Truss Type Qty Ply 20110098JR T07B Attic Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18

0.04

-0.50

11

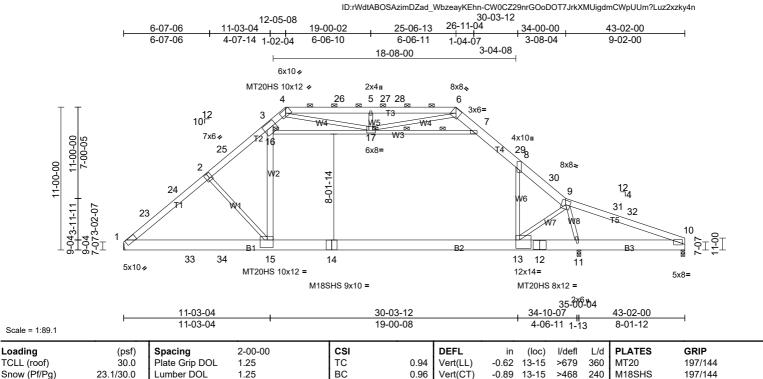
13-15

n/a n/a

360

>461

Page: 1



LUMBER

TCDL

BCLL

BCDI

TOP CHORD 2x6 SPF No.2 *Except* 2-4:2x6 SP 2400F

10.0

0.0

10.0

Rep Stress Incr

Code

YES

IRC2015/TPI2014

2.0E. 6-9:2x8 SPF No.2

BOT CHORD 2x10 SP 2400F 2.0E *Except* 1-14:2x10

SPF No.2

WEBS 2x4 SPF No.2 *Except* 3-15:2x6 SPF No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins, except 2-0-0 oc purlins (3-3-15 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 2 Rows at 1/3 pts 7-17 1 Brace at Jt(s): 16, JOINTS

REACTIONS (size)

1= Mechanical, (min. 1-08), 10=3-08, (min. 1-08), 11=3-08,

(min. 2-06)

Max Horiz 1=-209 (LC 11)

Max Uplift 10=-233 (LC 10)

Max Grav 1=2407 (LC 50), 10=665 (LC 2),

11=2864 (LC 3)

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

(lb) or less except when shown.

1-23=-3513/0, 23-24=-3409/0, 2-24=-3236/0, TOP CHORD

2-25=-3174/0, 3-25=-3019/0, 3-4=-1759/65, 4-26=-3320/207, 5-26=-3320/207, 5-27=-3320/207, 27-28=-3320/207,

6-28=-3320/207, 6-7=-1282/273, 7-29=-2421/0, 8-29=-2510/0, 8-30=-3040/0,

9-30=-3195/0, 9-31=-996/412,

31-32=-998/401, 10-32=-1044/397 1-33=0/2691, 33-34=0/2691, 15-34=0/2691,

BOT CHORD 14-15=0/2291, 13-14=0/2291

12-13=-160/1424, 11-12=-160/1424,

10-11=-324/947

WFBS 2-15=-776/182, 15-16=0/1692, 3-16=0/1770, 8-13=-187/1105, 9-13=0/1606, 16-17=-618/4,

7-17=-2722/0, 4-17=-855/1756

5-17=-757/164, 6-17=-22/2580, 9-11=-3478/0

Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 4-4-9, Interior (1) 4-4-9 to 8-1-11, Exterior (2) 8-1-11 to 16-9-5, Interior (1) 16-9-5 to 21-3-0, Exterior (2) 21-3-0 to 29-10-10, Interior (1) 29-10-10 to 38-10-3, Exterior (2) 38-10-3 to 43-2-0 zone: cantilever left and right exposed : end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown:

Wind: ASCE 7-10; Vult=115mph (3-second gust)

0.72

Horz(CT)

Attic

WB

Matrix-MS

TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10. Lu=50-0-0

Lumber DOL=1.60 plate grip DOL=1.60

- Unbalanced snow loads have been considered for this desian.
- 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 7-8, 8-9, 16-17, 7-17; Wall dead load (5.0psf) on member
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
- 10) Refer to girder(s) for truss to truss connections.
- 11) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. 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) NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM, THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE. BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS. TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING.

MT20HS

148/108

Weight: 328 lb FT = 20%

15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

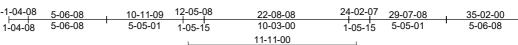
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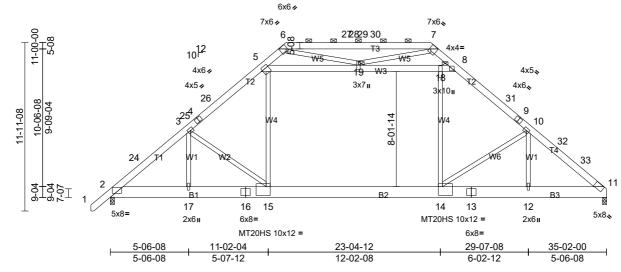
This truss has been checked for uniform roof live load only, except as noted.



Job Truss Truss Type Qty Ply 20110098JR **T08** Attic 5 Job Reference (optional)

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2-00-00 **PLATES** Loading (psf) Spacing CSI DEFL (loc) I/defl GRIP 30.0 Plate Grip DOL 1.25 TC 0.68 -0.22 14-15 >999 360 197/144 TCLL (roof) Vert(LL) MT20 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.25 BC 0.75 Vert(CT) -0.3414-15 >999 240 MT20HS 148/108 **TCDL** 10.0 Rep Stress Incr WB 0.48 0.04 YES Horz(CT) 11 n/a n/a **BCLL** 0.0 IRC2015/TPI2014 Matrix-MS Attic -0.14 14-15 >999 360 Code **BCDI** Weight: 298 lb FT = 20% 10.0

LUMBER

WEBS

Scale = 1:82

TOP CHORD 2x6 SPF No.2 *Except* 6-7:2x6 SP 2400F

2 0F

BOT CHORD 2x10 SP 2400F 2.0E *Except* 16-13:2x10

SPF No.2

2x4 SPF No.2 *Except* 5-8:2x6 SP 2400F

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-1 oc purlins, except

2-0-0 oc purlins (5-2-5 max.): 6-7.

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

bracing.

JOINTS 1 Brace at Jt(s): 18,

19

FORCES

2=3-08, (min. 1-15), 11=3-08, (min. 4) REACTIONS (size)

1-14)

Max Horiz 2=212 (LC 10)

Max Grav 2=2341 (LC 47), 11=2268 (LC 47)

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

TOP CHORD 2-24=-3253/0, 3-24=-3039/0, 3-25=-2965/0,

4-25=-2936/0, 4-26=-2843/0, 5-26=-2771/0,

5-6=-1628/165, 6-27=-1947/0, 27-28=-1947/0, 28-29=-1947/0

29-30=-1947/0, 7-30=-1947/0,

7-8=-1514/196, 8-31=-2663/0, 9-31=-2822/0, 9)

9-10=-2907/0, 10-32=-2994/0

32-33=-3004/0, 11-33=-3135/0

2-17=0/2523, 16-17=0/2523, 15-16=0/2523,

14-15=0/2168, 13-14=0/2302, 12-13=0/2302,

11-12=0/2308

3-15=-595/230, 5-15=0/1083, 14-18=0/988,

10-14=-496/266, 5-19=-1778/0 18-19=-1974/0, 8-18=-1984/0, 6-19=0/687,

7-19=0/937, 10-12=-251/153

NOTES

WEBS

BOT CHORD

This truss has been checked for uniform roof live load only, except as noted.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-5 to 2-2-14, Interior (1) 2-2-14 to 7-3-14, Exterior (2) 7-3-14 to 17-3-4, Interior (1) 17-3-4 to 17-10-12, Exterior (2) 17-10-12 to 27-10-2, Interior (1) 27-10-2 to 31-6-1, Exterior (2) 31-6-1 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=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 5-19, 18-19, 8-18; Wall dead load (5.0psf) on member(s).5-15, 14-18
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
- 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Job Truss Truss Type Qty Ply 20110098JR T09 Attic Job Reference (optional)

> Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:MOGDJbi0szoz9avRvi0w84vKEcB-CW0CZ29nrGOoDOT7JrkXMUihwmDQpVsm?Luz2xzkv4n

> > 7x8=

35-02-00

8-02-09

Weight: 292 lb FT = 20%

<u>26-11</u>-07

3-06-11

<u>11-02-04</u> 12-05-08 25-06-13 6-07-06 23-04-12 35-02-00 6-07-06 4-06-14 10-11-04 2-02-01 9-07-03 1-03-04 M18SHS 9x10 4 MT20HS 7x8 = MT20HS 10x12 / 4x4= 23 24 25 26 5 6 T3 3 ₩4 10¹² 16₩3 7x6 3x4 ı 22 21² 29 8-01-14 6x6= 20 3-00-00 8 B2 В1 ВЗ 30 31 13 12 11 10 9 M18SHS 3x10 II 5x8 🖋 6x8= 5x5= 10x16= 5x5=

Scale = 1:76.8 2-00-00 **PLATES GRIP** Loading (psf) Spacing CS DEFL (loc) I/defl L/d 30.0 Plate Grip DOL 1.25 TC 0.86 -0.25 11-12 >999 360 M18SHS 197/144 TCLL (roof) Vert(LL) Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.25 BC 0.84 Vert(CT) -0.3911-12 >999 240 MT20 197/144 **TCDL** 10.0 Rep Stress Incr WB Horz(CT) 0.03 MT20HS 148/108 YES 0.84 8 n/a n/a **BCLL** 0.0 Code IRC2015/TPI2014 Matrix-MS Attic -0.16 11-12 >933

23-04-12

12-02-08

LUMBER

BCDI

TOP CHORD 2x6 SPF No.2 *Except* 4-6,6-7:2x6 SP

10.0

2400F 2 0F

11-00-00 11-00-00

BOT CHORD 2x10 SPF No.2 *Except* 1-13:2x10 SP

2400F 2.0E **WEBS** 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-0 max.): 4-6.

11-02-04

11-02-04

BOT CHORD Rigid ceiling directly applied or 8-2-5 oc

bracing.

WEBS 1 Row at midnt 11-15 6-9

1 Brace at Jt(s): 14, JOINTS 15.16

REACTIONS (size) 1=3-08, (min. 1-14), 8=3-08, (min.

3-08)

Max Horiz 1=196 (LC 10)

Max Grav 1=2270 (LC 46), 8=2211 (LC 46)

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

TOP CHORD

1-19=-3119/0, 19-20=-3025/0 20-21=-2842/0, 2-21=-2813/0, 2-22=-2800/0,

3-22=-2682/0, 3-4=-1746/77, 4-23=-2157/0,

23-24=-2157/0, 24-25=-2157/0, 25-26=-2157/0, 5-26=-2157/0, 5-6=-2048/38,

6-27=-2062/0, 27-28=-2062/0,

28-29=-2081/0, 7-29=-2248/0, 7-8=-2113/0

BOT CHORD 1-30=0/2339, 30-31=0/2339, 13-31=0/2339, 12-13=0/2339, 11-12=0/2049, 10-11=0/1653,

9-10=0/1653

WEBS 2-12=-747/189, 12-14=0/1128, 3-14=0/1194,

11-15=-1397/266, 5-15=-1279/289,

6-11=-55/1990, 14-16=-393/0, 7-9=0/1585.

4-16=0/467, 5-16=0/256, 6-9=-896/26

NOTES

This truss has been checked for uniform roof live load only, except as noted.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-7-15, Interior (1) 3-7-15 to 7-5-13, Exterior (2) 7-5-13 to 17-5-3, Interior (1) 17-5-3 to 20-7-2, Exterior (2) 20-7-2 to 30-6-8, Interior (1) 30-6-8 to 31-6-1. Exterior (2) 31-6-1 to 35-0-4 zone: cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 160
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 14-16, Wall dead load (5.0psf) on member(s).12-14,
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-12
- 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
- 12) Attic room checked for L/360 deflection.

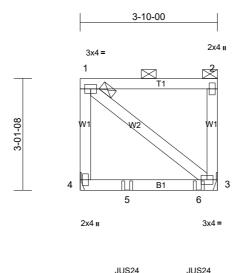
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	
20110098JR	T09A	Flat Girder	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:a3GKbd81e0paV8QzX5zMq8yKEQ1-CW0CZ29nrGOoDOT7JrkXMUiq?mEZpi1m?Luz2xzky4n

Page: 1



3-10-00

Scale = 1:32.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.04	3-4	>960	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.08	3-4	>534	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, (min. 1-08), 4=

Mechanical, (min. 1-08)
Max Uplift 3=-150 (LC 7), 4=-111 (LC 7)

Max Grav 3=528 (LC 2), 4=397 (LC 2)

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

(lb) or less except when shown.

NOTES

FORCES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 J u=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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 111 lb uplift at joint 4 and 150 lb uplift at joint 3.
- 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.
- 11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-3-12 from the left end to 3-3-12 to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 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: 1-2=-66, 3-4=-20

Concentrated Loads (lb)

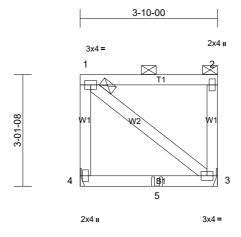
Vert: 5=-272 (F), 6=-278 (F)



Job	Truss	Truss Type	Qty	Ply	
20110098JR	Т09В	Flat Girder	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:a3GKbd81e0paV8QzX5zMo8vKEQ1-kKSqMi894zGxbEuwl8DlgH9fFNuq4Fndmh9QWVzky4o

Page: 1



JUS24

3-10-00

Scale = 1:32.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.04	3-4	>999	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.07	3-4	>623	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 3= Mechanical, (min. 1-08), 4=

Mechanical, (min. 1-08)

Max Uplift 3=-92 (LC 7), 4=-81 (LC 7)

Max Grav 3=336 (LC 2), 4=300 (LC 2)

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

(lb) or less except when shown.

NOTES

FORCES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 4 and 92 lb uplift at joint 3.
- 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.
- 11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-1-12 from the left end to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 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: 1-2=-66, 3-4=-20

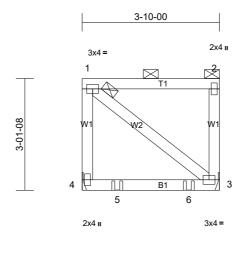
Concentrated Loads (lb)

Vert: 5=-272 (F)

Job	Truss	Truss Type	Qty	Ply	
20110098JR	T09C	Flat Girder	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:a3GKbd81e0paV8QzX5zMg8yKEQ1-kKSqMi894zGxbEuwl8DlqH9fFNvk4Fndmh9QWVzky4o

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Scale = 1:32.3

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.05	3-4	>911	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.08	3-4	>509	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

JUS24

3-10-00

JUS24

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, (min. 1-08), 4=

Mechanical, (min. 1-08)
Max Uplift 3=-134 (LC 7), 4=-127 (LC 7)

Max Grav 3=472 (LC 2), 4=451 (LC 2)

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

(lb) or less except when shown.

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 5) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 4 and 134 lb uplift at joint 3.
- 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.
- 11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-12 from the left end to 2-11-12 to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 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: 1-2=-66, 3-4=-20

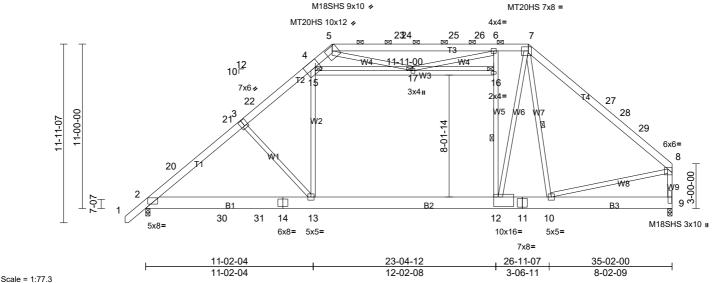
Concentrated Loads (lb)

Vert: 5=-273 (F), 6=-275 (F)

Job Truss Truss Type Qty Ply 20110098JR T10 Attic Job Reference (optional)

> Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:MOGDJbj0szoz9ayRyi0w84yKEcB-kKSqMi894zGxbEuwl8DlaH9WlNtx42fdmh9QWVzkv4o

<u>11-02-04</u> 12-05-08 -1-04-08 25-06-13 6-07-06 23-04-12 35-02-00 6-07-06 10-11-04 1-04-08 4-06-14 1-03-04 2-02-01 9-07-03



Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.26	12-13	>999	360	M18SHS	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.40	12-13	>999	240	MT20	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.03	9	n/a	n/a	MT20HS	148/108
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.16	12-13	>911	360		
BCDL	10.0										Weight: 296 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 5-7,7-8:2x6 SP

2400F 2 0F

BOT CHORD 2x10 SPF No.2 *Except* 2-14:2x10 SP

2400F 2.0E **WEBS** 2x4 SPF No.2

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-6 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 7-11-9 oc

bracing.

WEBS 1 Row at midnt 12-16, 7-10

1 Brace at Jt(s): 15, JOINTS 16, 17

REACTIONS (size) 2=3-08, (min. 1-15), 9=3-08, (min.

3-08)

Max Horiz 2=210 (LC 10)

Max Grav 2=2340 (LC 47), 9=2219 (LC 47) (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown

TOP CHORD 2-20=-3127/0, 20-21=-2870/0, 3-21=-2840/0,

3-22=-2826/0, 4-22=-2708/0, 4-5=-1761/72,

5-23=-2174/0, 23-24=-2174/0, 24-25=-2174/0, 25-26=-2174/0

6-26=-2174/0, 6-7=-2062/33, 7-27=-2070/0,

27-28=-2071/0, 28-29=-2089/0,

8-29=-2257/0, 8-9=-2121/0

BOT CHORD 2-30=0/2368, 30-31=0/2368, 14-31=0/2368,

10-11=0/1661

3-13=-767/187, 13-15=0/1155, 4-15=0/1221,

12-16=-1405/265, 6-16=-1287/288,

7-12=-52/2018, 15-17=-386/0, 8-10=0/1592, 5-17=0/464, 6-17=-69/259, 7-10=-912/24

NOTES

WEBS

This truss has been checked for uniform roof live load only, except as noted.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-4 to 2-2-15, Interior (1) 2-2-15 to 7-5-13, Exterior (2) 7-5-13 to 17-5-3, Interior (1) 17-5-3 to 20-7-2, Exterior (2) 20-7-2 to 30-6-8, Interior (1) 30-6-8 to 31-6-1. Exterior (2) 31-6-1 to 35-0-4 zone: cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 15-17, 16-17; Wall dead load (5.0psf) on member(s).13-15,
- 13-14=0/2368, 12-13=0/2063, 11-12=0/1661, 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
 - 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.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

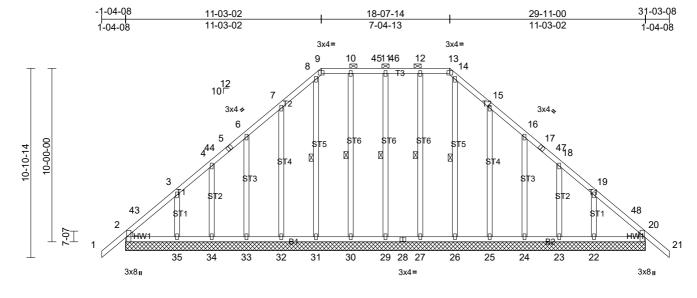
DOI = 160



Job Truss Type Truss Qty Ply 20110098JR T11 Piggyback Base Supported Gable Job Reference (optional)

> Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:vQZk4BcfqQK2tpJixhilNfzsstQ-kKSqMi894zGxbEuwl8DlqH9qAN394BWdmh9QWVzkv4c

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29-11-00 Scale = 1:66.6

Loading	(psf)	Spacing	2-00-00	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	20	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 181 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **OTHERS** WEDGE Left: 2x4 SPF No.2 Right: 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 9-13.

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

bracing

WEBS 1 Row at midnt 11-29, 10-30, 8-31, 12-27, 14-26

REACTIONS All bearings 29-10-15.

(lb) - Max Horiz 2=-205 (LC 11), 36=-205 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s) 2, 20, 23, 24, 25, 27, 29, 30, 31

32, 33, 34, 36, 40 except 22=-105 (LC 14), 35=-111 (LC 13)

Max Grav All reactions 250 (lb) or less at joint (s) 26, 31 except 2=294 (LC 2), 20=294 (LC 2), 22=375 (LC 39) 23=259 (LC 39), 24=293 (LC 39), 25=300 (LC 39), 27=288 (LC 38), 29=291 (LC 38), 30=288 (LC 38), 32=300 (LC 39), 33=293 (LC 39), 34=259 (LC 39), 35=375 (LC 39), 36=294 (LC 2), 40=294 (LC 2)

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

(lb) or less except when shown

WEBS 11-29=-251/56, 7-32=-260/93, 3-35=-302/111, 11)

15-25=-260/95, 19-22=-302/108

NOTES

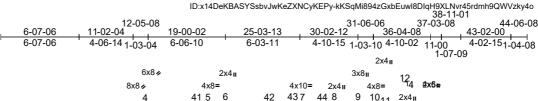
1) This truss has been checked for uniform roof live load only, except as noted.

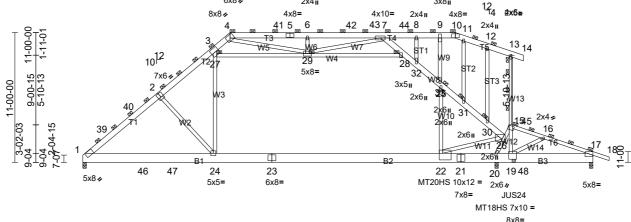
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-4-8 to 1-7-8, Exterior (2) 1-7-8 to 8-3-2, Corner (3) 8-3-2 to 14-3-2, Exterior (2) 14-3-2 to 15-7-14, Corner (3) 15-7-14 to 21-7-14, Exterior (2) 21-7-14 to 28-3-8, Corner (3) 28-3-8 to 31-3-8 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 DOI = 160
- 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=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 20, 29, 30, 31, 32, 33, 34, 35, 27, 25, 24, 23, and 22. This connection is for uplift only and does not consider lateral forces.
- 12) Non Standard bearing condition. Review required.
- 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.
- 14) 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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Scale = 1:98		11-02-	04		19-01-08			4-08-0	8	8-0	01-12		
Loading TCLL (roof)	(psf)	Spacing Plate Grip DOI	3-00-08 1 25	CSI	0.78	DEFL Vert(LL)	in -0.34	(loc)	l/defl >999		PLATES MT20	GRIP 197/144	

Loading	(psi)	Spacing	3-00-06	l coi		DELL	III	(100)	ı/deii	L/u	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.34	22-24	>999	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.52	22-24	>797	240	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.03	17	n/a	n/a	MT18HS	197/144
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 675 lb	FT = 20%
		!	•		-							-

LUMBER TOP CHORD 2x6 SPF No.2 *Except* 15-18:2x4 SPF No.2 2x10 SPF No.2 BOT CHORD

2x4 SPF No.2 *Except* 7-26:2x6 SPF No.2 WEBS

2x4 SPF No.2

OTHERS

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end

verticals

(Switched from sheeted: Spacing > 2-0-0). BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 20-22. **JOINTS**

1 Brace at Jt(s): 4, 10, 13, 15, 25, 27,

28, 29, 30, 31

REACTIONS (size) 1=3-08, (min. 2-03), 17=3-08, (min.

1-08), 20=3-08, (min. 2-12)

Max Horiz 1=520 (LC 11)

Max Uplift 1=-80 (LC 11), 17=-222 (LC 8),

20=-525 (LC 8) Max Grav 1=2775 (LC 45), 17=1097 (LC 2),

20=3545 (LC 44)

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

(lb) or less except when shown

TOP CHORD 1-39=-3803/132, 39-40=-3665/155, 2-40=-3478/181, 2-3=-3421/224,

3-4=-2349/320, 4-41=-4249/862

5-41=-4249/862, 5-6=-4249/862 6-42=-4249/862, 42-43=-4249/862,

7-43=-4249/862, 15-19=-329/1052,

13-15=-547/134, 15-45=-1412/429, 16-45=-1445/425, 16-17=-1645/449

1-46=-438/2818, 46-47=-436/2818,

24-47=-436/2818. 23-24=-220/2476.

22-23=-220/2476, 21-22=-821/303,

20-21=-821/303, 19-20=-317/1299,

19-48=-387/1526, 17-48=-387/1526

WEBS

11-02-04

24-27=0/1736, 3-27=0/1744, 22-25=-276/1222, 22-26=-105/3371,

20-26=-4045/366, 15-26=-1703/360, 16-19=-468/169, 27-29=-341/29,

30-03-12

28-29=-2860/181, 4-29=-1628/2209,

6-29=-1108/225, 7-29=-318/2836,

7-28=-2182/585, 28-32=-2812/259

32-33=-3103/263, 25-33=-3123/316,

25-31=-3215/243, 30-31=-3267/279, 26-30=-3363/256, 2-24=-1159/323,

12-30=-313/56, 8-32=-1145/72,

9-33=-261/880

NOTES

1) 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 9-00 oc, 2x4 - 1 row at 9-00 oc.

Bottom chords connected as follows: 2x10 - 2 rows

staggered at 9-00 oc.

Web connected as follows: 2x4 - 1 row at 9-00 oc, 2x6 -

2 rows staggered at 9-00 oc.

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

This truss has been checked for uniform roof live load only, except as noted.

Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60

plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0

Unbalanced snow loads have been considered for this design.

43-02-00

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- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhands non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 10) All plates are MT20 plates unless otherwise indicated.
- 11) Gable studs spaced at 2-0-0 oc.

35-00-04

- 12) * 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.
- 13) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 17. This connection is for uplift only and does not consider lateral forces
- 14) One RT8A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces
- 15) 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.
- 16) Load case(s) 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



BOT CHORD

Job	Truss	Truss Type	Qty	Ply	
20110098JR	TG01	Attic Girder	2	2	Job Reference (optional)

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- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 36-5-12 from the left end to connect truss(es) to front face of bottom chord.
- 19) Fill all nail holes where hanger is in contact with lumber.
- 20) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-101, 4-10=-101, 10-13=-101, 13-14=-101, 15-18=-101, 1-36=-30
Concentrated Loads (lb)

Vert: 19=-276 (F)

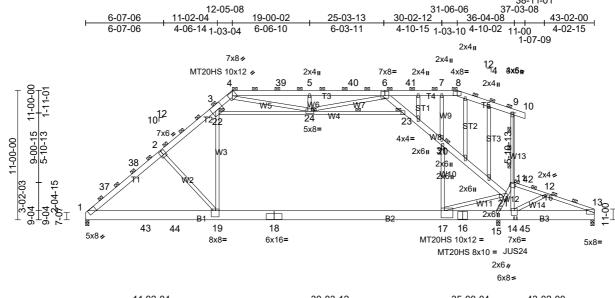
Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-4=-99, 4-10=-99, 10-13=-99, 13-14=-99, 15-45=-30, 18-45=-99, 1-46=-30, 46-47=-76, 24-47=-30, 22-24=-76, 19-22=-60 (F=-30), 19-36=-30

Concentrated Loads (lb) Vert: 19=-254 (F) Job Truss Truss Type Qty Ply 2 20110098JR TG02 Attic Girder Job Reference (optional)

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	11-02-04	30-03-12	35-00-04	43-02-00
Scale = 1:98.2	11-02-04	19-01-08	4-08-08	8-01-12

Loading	(psf)	Spacing	3-00-00	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.51	17-19	>810	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.74	17-19	>561	240	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.40	17-19	>572	360		
BCDL	10.0			I							Weight: 736 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 2-4:2x6 SPF 2100F

1.8E. 11-13:2x4 SPF No.2

BOT CHORD 2x10 SP 2400F 2.0E *Except* 1-18:2x10

SPF No.2

2x4 SPF No.2 *Except* 6-21:2x6 SP 2400F

OTHERS 2x4 SPF No.2

BRACING TOP CHORD

BOT CHORD

WEBS

2-0-0 oc purlins (6-0-0 max.), except end

verticals

(Switched from sheeted: Spacing > 2-0-0). Rigid ceiling directly applied or 6-0-0 oc

bracing

WFBS 1 Row at midpt

JOINTS 1 Brace at Jt(s): 4, 8, 11, 20, 22, 23,

REACTIONS (size) 1=3-08, (min. 2-12), 13=3-08, (min. 1-08), 15=3-08, (min. 2-00)

Max Horiz 1=521 (LC 11)

Max Uplift 13=-148 (LC 12), 15=-212 (LC 8) Max Grav 1=3507 (LC 44), 13=949 (LC 2),

15=4758 (LC 43)

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

(lb) or less except when shown.

TOP CHORD 1-37=-5044/0, 37-38=-4898/0, 2-38=-4723/0, 2-3=-4664/0, 3-4=-2779/51, 4-39=-4939/390,

5-39=-4939/390, 5-40=-4939/390, 6-40=-4939/390, 11-14=-333/1059,

9-11=-632/148, 11-42=-1406/375, 12-42=-1441/371. 12-13=-1649/400

1-43=-114/3766, 43-44=-71/3766, **BOT CHORD**

19-44=-71/3766, 18-19=0/3366, 17-18=0/3366, 16-17=-1327/73 15-16=-1327/73, 14-15=-277/1283 14-45=-349/1532, 13-45=-349/1532 WEBS 19-22=0/2501, 3-22=0/2598,

17-20=-204/1734, 17-21=0/4869, 15-21=-5117/0, 11-21=-1685/334, 12-14=-477/172, 22-24=-438/0, 23-24=-3462/0, 6-23=-2492/327,

23-31=-3800/0. 20-31=-3941/0. 20-21=-4509/0, 4-24=-1685/2479, 6-24=0/3330, 5-24=-992/282

2-19=-1252/280, 7-31=-531/253

NOTES

1) 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 9-00 oc, 2x4 - 1 row at 9-00 oc

Bottom chords connected as follows: 2x10 - 2 rows staggered at 9-00 oc.

Web connected as follows: 2x4 - 1 row at 9-00 oc, 2x6 -2 rows staggered at 9-00 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10. Lu=50-0-0
- 7) Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.

- 10) Gable studs spaced at 2-0-0 oc.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Ceiling dead load (10.0 psf) on member(s). 22-24, 23-24; Wall dead load (5.0psf) on member(s).19-22, 17-20
- 13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-19
- 14) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 15. This connection is for uplift only and does not consider lateral forces
- 15) 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.
- 16) Load case(s) 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 36-5-12 from the left end to connect truss(es) to front face of bottom chord.
- 19) Fill all nail holes where hanger is in contact with lumber.



Job	Truss	Truss Type	Qty	Ply	
20110098JR	TG02	Attic Girder	4	2	Job Reference (optional)

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20) NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM, THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE. BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS. TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING.

21) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Vert: 14=-416 (F)

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-99, 4-8=-99, 8-9=-99, 9-10=-99, 11-13=-99, 1-19=-30, 17-19=-45, 17-32=-30, 22-24=-30, 23-24=-30
Drag: 19-22=-15, 17-20=-15
Concentrated Loads (lb)
Vert: 14=-461 (F)

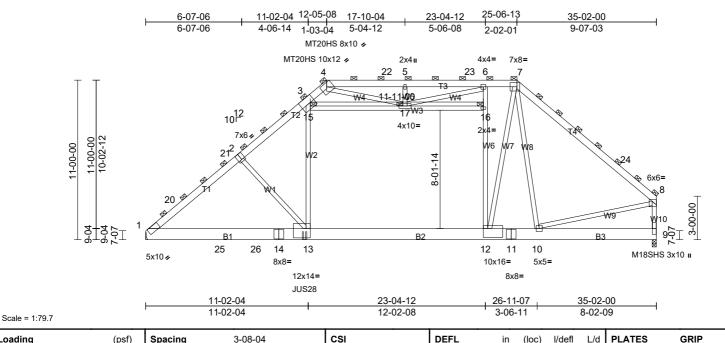
Vert: 14=-461 (F)

Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-98, 4-8=-98, 8-9=-98, 9-10=-98, 11-42=-30, 13-42=-98, 1-43=-30, 43-44=-75, 19-44=-30, 17-19=-135, 14-17=-60 (F=-30), 14-32=-30, 22-24=-30, 23-24=-30
Drag: 19-22=-15, 17-20=-15
Concentrated Loads (lb)

Job Truss Truss Type Qty Ply 2 20110098JR TG03 Attic Girder Job Reference (optional)

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Loading	(psf)	Spacing	3-08-04	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.29	13-18	>999	360	MT20HS	148/108
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.47	13-18	>894	240	MT20	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.03	9	n/a	n/a	M18SHS	197/144
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.20	12-13	>737	360		
BCDL	10.0										Weight: 585 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 2-4:2x6 SPF 2100F

1.8E. 7-8:2x6 SP 2400F 2.0E

BOT CHORD 2x10 SPF No.2 *Except* 14-11:2x10 SP

2400F 2.0E **WEBS** 2x4 SPF No.2

BRACING

FORCES

BOT CHORD

TOP CHORD 2-0-0 oc purlins (5-10-0 max.), except end

(Switched from sheeted: Spacing > 2-0-0). **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

1 Brace at Jt(s): 4, JOINTS

8, 15, 16, 17, 7

1= Mechanical, (min. 1-08), REACTIONS (size)

9=3-08, (min. 3-07) Max Horiz 1=361 (LC 8)

Max Grav 1=4856 (LC 42), 9=4354 (LC 40)

Max Uplift 1=-55 (LC 11)

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

(lb) or less except when shown.

TOP CHORD 1-20=-6499/0, 20-21=-6024/0, 2-21=-5982/0,

2-3=-5948/3, 3-4=-3617/157, 4-22=-5871/51,

5-22=-5871/51, 5-23=-5871/51 6-23=-5871/51, 6-7=-4197/74, 7-24=-4106/0,

8-24=-4460/0, 8-9=-4173/0

1-25=-174/5158, 25-26=-141/5158,

14-26=-141/5158, 13-14=-141/5158, 12-13=0/4290, 11-12=0/3359, 10-11=0/3359

9-10=-90/339

WEBS 13-15=-206/2946, 3-15=0/3057,

12-16=-2110/403, 6-16=-1879/442, 7-12=-454/4504, 15-17=-538/98, 4-17=-547/2452, 5-17=-922/402,

6-17=-374/2235, 2-13=-1645/454,

8-10=0/3200, 7-10=-2285/357

NOTES

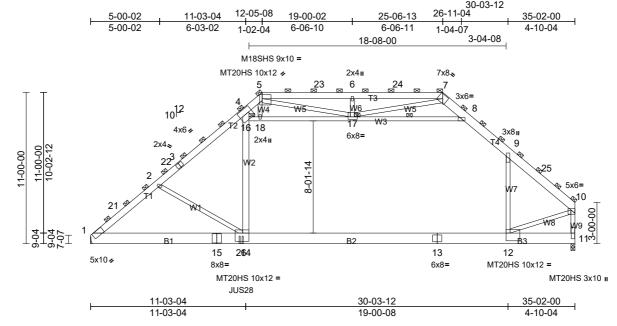
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 9-00 oc, 2x4 - 1 row at 9-00 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 9-00 oc.
- Web connected as follows: 2x4 1 row at 9-00 oc.
- All loads are considered equally applied to all plies except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated
- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- 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, with BCDL = 10.0psf. 10) Ceiling dead load (10.0 psf) on member(s). 15-17, 16-17; Wall dead load (5.0psf) on member(s).13-15,
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
- 12) Refer to girder(s) for truss to truss connections.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint
- 14) 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 USP JUS28 (With 6-10d nails into Girder & 4-10d nails into Truss) or equivalent at 10-11-4 from the left end to connect truss(es) to front face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) Attic room checked for L/360 deflection.

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft)
 - Vert: 1-4=-122, 4-7=-122, 7-8=-122, 1-13=-37,
 - 12-13=-55, 9-12=-37, 15-17=-37, 16-17=-37
 - Drag: 13-15=-18, 12-16=-18
 - Concentrated Loads (lb) Vert: 13=-991 (F)

Job Truss Truss Type Qty Ply 2 20110098JR **TG04** Attic Girder Job Reference (optional)

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Loading	(psf)	Spacing	3-08-04	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.55	12-14	>757	360	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.83	12-14	>505	240	M18SHS	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.04	11	n/a	n/a	MT20HS	148/108
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.46	12-14	>500	360		
BCDL	10.0			ļ							Weight: 590 lb	FT = 20%

LUMBER

Scale = 1:84.1

TOP CHORD 2x6 SPF No.2 *Except* 3-5:2x6 SPF 2100F

1.8E. 7-10:2x8 SP 2400F 2.0E

BOT CHORD 2x10 SP 2400F 2.0E *Except* 1-15:2x10

SPF No.2

WEBS 2x4 SPF No.2 *Except* 4-14:2x6 SPF No.2,

16-8:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD 2-0-0 oc purlins (5-3-0 max.), except end

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

Rigid ceiling directly applied or 6-0-0 oc

bracing

WFBS 1 Row at midpt 8-17 JOINTS 1 Brace at Jt(s): 5, 7, 10, 16, 17

REACTIONS (size)

1= Mechanical. (min. 1-08).

11=3-08, (min. 2-02)

Max Horiz 1=362 (LC 8) Max Uplift 1=-40 (LC 11)

Max Grav 1=4950 (LC 42), 11=5185 (LC 40)

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

(lb) or less except when shown TOP CHORD

1-21=-7261/114, 2-21=-6922/0, 2-22=-6385/0, 3-22=-6214/0, 3-4=-5934/0,

4-5=-4117/210, 5-23=-6030/470,

6-23=-6030/470, 6-24=-6030/470,

7-24=-6030/470, 7-8=-1963/928,

8-9=-4921/0, 9-25=-5952/0, 10-25=-6273/0,

10-11=-6695/0

BOT CHORD 1-15=-272/5864, 15-26=-235/5864,

14-26=-235/5864, 13-14=0/4589,

12-13=0/4589

WEBS 14-16=-83/3389, 4-16=0/2981, 9-12=0/2099,

16-18=-1174/394, 17-18=-1239/385, 8-17=-6413/241, 10-12=0/5091, 5-17=-2783/2176, 6-17=-1377/323,

7-17=-366/5348, 2-14=-1675/512, 5-18=0/675

NOTES

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 9-00 oc, 2x8 - 2 rows staggered at 9-00 oc, 2x4 - 1 row at 9-00 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 9-00 oc.

Web connected as follows: 2x6 - 2 rows staggered at 9-00 oc, 2x4 - 1 row at 9-00 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
- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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
- 10) Ceiling dead load (10.0 psf) on member(s). 8-9, 16-18, 17-18, 8-17; Wall dead load (5.0psf) on member (s).14-16, 9-12
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
- 12) Refer to girder(s) for truss to truss connections.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint

14) 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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- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 16) Use USP JUS28 (With 6-10d nails into Girder & 4-10d nails into Truss) or equivalent at 10-11-4 from the left end to connect truss(es) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM, THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE. BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING
- 19) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-5=-122, 5-7=-122, 7-8=-122, 8-9=-159, 9-10=-122, 1-14=-37, 12-14=-55, 11-12=-37,

16-18=-37, 17-18=-37, 8-17=-37

Drag: 14-16=-18, 9-12=-18

Concentrated Loads (lb)

Vert: 26=-961 (B)



Job Truss Truss Type Qty Ply 20110098JR TGE01 Attic Supported Gable Job Reference (optional) Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 Page: 1 30-03-12 34-00-00 -1-04-08 12-05-08 26-11-04 33-00-02 44-06-08 11-02-04 19-00-02 25-06-13 43-02-00 11-02-04 2-08-06 1-04-08 1-03-04 6-06-10 6-06-10 1-04-07 9-02-00 1-04-08 3-04-08 11-14 18-10-00 MT18HS 7x10 / M18SHS 9x10 💊 5 59 6 60 7 10⁻ 2x6= 2x611 ST5 ST5 ST5 ST5 MT20HS 4x12 4 2x611 28 10-06-08 6-06-13 61 58 8x8 9 3 MT20HS 8x10 u 8x8 11-11-08 8-01-14 12, 10 5 T6 MT20HS 5x10 II Т3 62 3-11-11 56 3-11-11 ST2 63 ST9 12 \$|T10 HWP 🗟 26 25 24 21 20 19 18 1716 23 22 15 8x8= 2x6ı 2x6u 2x6ı 6x8= 5x5= 2x6 II 2x6ı 5x8= 2x611 2x611 6x8= 2x611 2x611 11-02-04 30-03-12 43-02-00 34-01-12 11-02-04 19-01-08 3-10-00 9-00-04 Scale = 1:86.2 Loading (psf) Spacing 2-00-00 CSI DEFL (loc) I/defl **PLATES** GRIP 30.0 Plate Grip DOL 1.25 TC 0.99 999 MT20HS 148/108 TCLL (roof) Vert(LL) n/a n/a Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.25 BC 0.64 Vert(CT) n/a n/a 999 MT18HS 197/144 **TCDL** 10.0 Rep Stress Incr WB 0.04 12 M18SHS 197/144 YES 0.67 Horz(CT) n/a n/a **BCLL** 0.0 IRC2015/TPI2014 Matrix-MS MT20 197/144 Code **BCDI** Weight: 341 lb FT = 20% 10.0 LUMBER **BOT CHORD** 2-26=0/1298, 25-26=0/1298, 24-25=0/1298, 12) * This truss has been designed for a live load of 20.0psf TOP CHORD 2x6 SPF No.2 *Except* 5-7:2x6 SP 2400F 23-24=0/1298, 22-23=0/1298, 21-22=0/1270, on the bottom chord in all areas where a rectangle 20-21=0/1270, 19-20=-46/784, 3-06-00 tall by 2-00-00 wide will fit between the bottom 2 0F 7-11:2x8 SPF No 2 18-19=-46/784, 17-18=-46/784, chord and any other members, with BCDL = 10.0psf. **BOT CHORD** 2x10 SPF No.2 *Except* 19-12:2x10 SP 16-17=-64/728, 15-16=-64/728, 13) Ceiling dead load (10.0 psf) on member(s). 8-9, 27-28, 2400F 2.0E 14-15=-64/728, 12-14=-64/728 8-28; Wall dead load (5.0psf) on member(s).22-27, 9-20 **WEBS** 2x4 SPF No.2 WFBS **OTHERS** 2x4 SPF No.2 22-27=-707/214, 4-27=-561/251 9-20=-1071/135, 11-17=-1389/164 Left: 2x4 SPF No.2 14) One RT4 USP connectors recommended to connect WEDGE 27-28=-84/456, 8-28=-85/457, 10-20=-55/892 truss to bearing walls due to UPLIFT at jt(s) 2, 12, 16, Right: 2x4 SPF No.2 and 14. This connection is for uplift only and does not NOTES **BRACING** consider lateral forces. This truss has been checked for uniform roof live load TOP CHORD Structural wood sheathing directly applied, 15) Two RT16A USP connectors recommended to connect only, except as noted. except truss to bearing walls due to UPLIFT at jt(s) 18. This Wind: ASCE 7-10; Vult=115mph (3-second gust) 2-0-0 oc purlins (2-2-0 max.): 5-7. connection is for uplift only and does not consider lateral Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc forces II; Exp B; Enclosed; MWFRS (envelope) exterior zone bracing. 16) Two RT16A USP connectors recommended to connect and C-C Corner (3) -1-3-5 to 3-0-8, Exterior (2) 3-0-8 to WFBS 1 Row at midpt 22-27, 27-28, 8-28 truss to bearing walls due to UPLIFT at jt(s) 15. This 8-1-11, Corner (3) 8-1-11 to 16-9-5, Exterior (2) 16-9-5 **JOINTS** 1 Brace at Jt(s): 28 connection is for uplift only and does not consider lateral to 21-3-0, Corner (3) 21-3-0 to 29-10-10, Exterior (2) REACTIONS All bearings 43-02-00. forces 29-10-10 to 40-2-11, Corner (3) 40-2-11 to 44-6-8 zone; (lb) - Max Horiz 2=-224 (LC 11) 17) Two RT8A USP connectors recommended to connect Max Uplift All uplift 100 (lb) or less at joint(s)

- 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 DOI =1 60
- 20), 25=-386 (LC 43), 26=-333 (LC 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=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this 5) 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 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 10) Gable requires continuous bottom chord bearing

- truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces
- 18) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 25 and 26. This connection is for uplift only and does not consider lateral forces.

9-61=-1752/80, 9-10=-1418/61 11) Gable studs spaced at 2-0-0 oc. 10-11=-1454/43, 11-62=-743/86, 62-63=-801/47, 12-63=-813/45 This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of componer is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI)

12, 16 except 2=-108 (LC 9),

Max Grav All reactions 250 (lb) or less at joint

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

13)

43)

(lb) or less except when shown.

2-56=-1786/464, 56-57=-1766/136,

3-57=-1689/162, 3-58=-1678/164,

4-58=-1592/194, 4-5=-1891/153,

5-59=-1726/145, 6-59=-1726/145,

6-60=-1726/145, 7-60=-1726/145,

7-8=-1908/158, 8-61=-1717/119,

14=-217 (LC 10), 15=-1509 (LC 2),

18=-1680 (LC 20), 23=-1184 (LC

(s) 12, 15, 18, 23, 25 except 2=1138 (LC 42), 14=2039 (LC 2),

16=551 (LC 2), 17=1853 (LC 3),

20=1894 (LC 55), 22=2038 (LC

53), 24=525 (LC 20), 26=1154 (LC

for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



FORCES

TOP CHORD

Job	Truss	Truss Type	Qty	Ply	
20110098JR	TGE01	Attic Supported Gable	1	1	Job Reference (optional)

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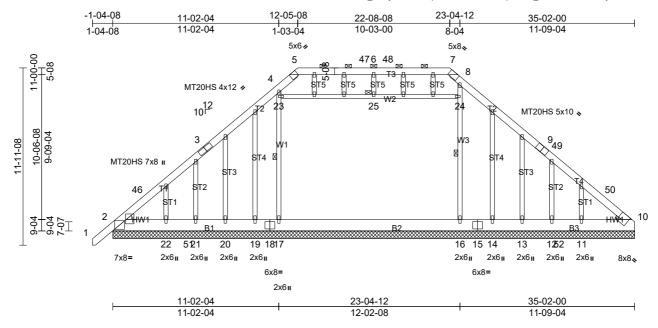
Page: 2

- 19) 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.
- 20) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 21) 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.
- 22) Double installations of RT16A require installation on both interior and exterior sides.
- 23) Double installations of RT8A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.
- 24) Attic room checked for L/360 deflection.

Job Truss Truss Type Qty Ply 20110098JR TGE02 Attic Supported Gable Job Reference (optional)

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Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	n/a	-	n/a	999	MT20HS	148/108
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0			l							Weight: 279 lb	FT = 20%

LUMBER

2x6 SPF No.2 *Except* 5-7:2x6 SP 2400F TOP CHORD

2 0F

2x10 SPF No.2 **BOT CHORD WEBS** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 WEDGE Left: 2x4 SPF No.2

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied,

Right: 2x4 SPF No.2

except

2-0-0 oc purlins (6-0-0 max.): 5-7. Rigid ceiling directly applied or 6-0-0 oc

bracing.

1 Row at midpt 17-23, 16-24

WEBS 1 Brace at Jt(s): 25 **JOINTS**

REACTIONS All bearings 35-02-00.

(lb) - Max Horiz 2=216 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 16, 17 except 10=-178 (LC 51) 11=-346 (LC 14), 12=-437 (LC 41), 14=-370 (LC 20), 19=-539 (LC 20), 21=-374 (LC 41), 22=-289 (LC 13)

Max Grav All reactions 250 (lb) or less at joint

(s) 12, 14, 19, 21 except 2=903 (LC 3) 40), 10=855 (LC 40), 11=1130 (LC 41), 13=336 (LC 51), 16=1775 (LC

51), 17=1914 (LC 49), 20=317 (LC 49), 22=985 (LC 41)

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

(lb) or less except when shown. TOP CHORD 2-46=-1352/1123, 3-46=-1331/304, 3-4=-1158/613, 4-5=-1243/89

5-47=-1027/240, 6-47=-1027/240. 6-48=-1027/240, 7-48=-1027/240. 7-8=-1232/107, 8-9=-1148/602, 9-49=-1256/256, 49-50=-1333/227,

10-50=-1354/48

BOT CHORD 2-22=-454/964, 22-51=-266/964,

21-51=-266/964, 20-21=-266/964, 19-20=-266/964, 18-19=-266/964, 17-18=-266/964, 16-17=-263/959, 15-16=-268/967, 14-15=-268/967, 13-14=-268/967, 12-13=-268/967, 12-52=-268/967, 11-52-568/967, 11-52-568/967, 11-52-568/967, 11-568/967, 11-568/967, 11-568/967, 11-568/967, 1

10-11=-268/967 WFBS 17-23=-1229/324, 4-23=-1096/357,

16-24=-1235/312, 8-24=-1109/342

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-3-5 to 2-2-14, Exterior (2) 2-2-14 to 8-11-5, Corner (3) 8-11-5 to 15-11-11, Exterior (2) 15-11-11 to 19-2-5, Corner (3) 19-2-5 to 26-2-11, Exterior (2) 26-2-11 to 31-7-13, Corner (3) 31-7-13 to 35-2-0 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=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- 10) Gable requires continuous bottom chord bearing. 11) Gable studs spaced at 2-0-0 oc.

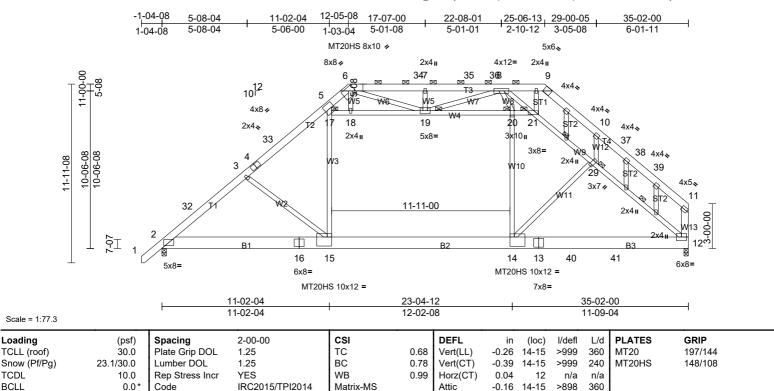
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 13) Ceiling dead load (10.0 psf) on member(s). 23-25, 24-25; Wall dead load (5.0psf) on member(s).17-23, 16-24
- 14) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 17, 16, and 10. This connection is for uplift only and does not consider lateral forces.
- 15) One RT8A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. This connection is for uplift only and does not consider lateral
- 16) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21, 22, 14, 12, and 11. This connection is for uplift only and does not consider lateral forces.
- 17) 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.
- 18) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 19) Attic room checked for L/360 deflection.



Job Truss Truss Type Qty Ply 20110098JR TSGE01 Attic Structural Gable Job Reference (optional)

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LUMBER

TCDL

BCLL

BCDI

TOP CHORD 2x6 SPF No.2

2x10 SP 2400F 2.0E *Except* 16-13:2x10 **BOT CHORD**

10.0

SPF No.2

WEBS 2x4 SPF No.2 *Except* 12-11:2x6 SPF No.2

OTHERS 2x4 SPF No.2 BRACING

TOP CHORD Structural wood sheathing directly applied or

3-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-9 max.): 6-9.

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

bracing.

WEBS 1 Row at midnt 21-29 12-29 JOINTS

1 Brace at Jt(s): 17, 19, 20, 21, 29

REACTIONS (size) 2=3-08, (min. 1-15), 12=3-08, (min.

1-15)

Max Horiz 2=210 (LC 10)

Max Grav 2=2306 (LC 47), 12=2302 (LC 47) (lb) - Max. Comp./Max. Ten. - All forces 250

FORCES (lb) or less except when shown

TOP CHORD 2-32=-3213/0, 3-32=-3007/0, 3-4=-2857/0,

4-33=-2756/0, 5-33=-2686/0, 5-6=-1848/34, 6-34=-2523/111, 7-34=-2523/111,

7-35=-2523/111, 35-36=-2523/111, 8-36=-2523/111, 8-9=-269/173, 9-10=-416/179, 10-37=-306/49, 37-38=-318/34, 38-39=-324/27

11-39=-516/26, 11-12=-550/68

BOT CHORD 2-16=0/2476, 15-16=0/2476, 14-15=0/2086,

13-14=0/2184, 13-40=0/2184, 40-41=0/2184,

12-41=0/2184

WEBS 3-15=-718/210, 15-17=0/1078, 5-17=0/928, 14-20=0/1161, 17-18=-447/0, 18-19=-447/0 19-20=-575/0 6-18=0/274 6-19=-240/1045

> 7-19=-538/168, 8-19=-85/839, 8-21=-2591/0 21-29=-2420/0, 12-29=-2611/0,

14-29=-397/177, 8-20=0/1436,

10-29=-594/197

NOTES

This truss has been checked for uniform roof live load only, except as noted.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-5 to 2-2-14, Interior (1) 2-2-14 to 7-7-9, Exterior (2) 7-7-9 to 17-7-0, Interior (1) 17-7-0 to 20-6-2, Exterior (2) 20-6-2 to 30-5-8, Interior (1) 30-5-8 to 31-5-1, Exterior (2) 31-5-1 to 34-11-4 zone; cantilever left and right exposed; end vertical left exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 160
- 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=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 17-18, 18-19, 19-20, 20-21; Wall dead load (5.0psf) on member(s).15-17, 14-20
- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
- 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 15) Attic room checked for L/360 deflection.

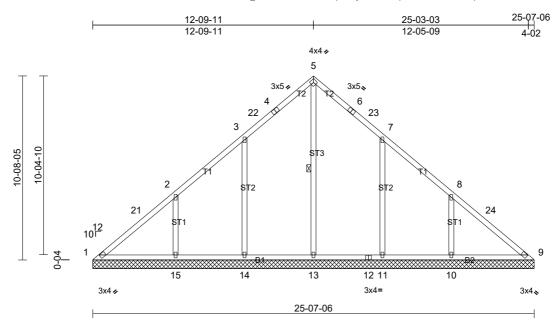
LOAD CASE(S) Standard

Weight: 302 lb FT = 20%



Job	Truss	Truss Type	Qty	Ply	
20110098JR	V01	Valley	1	1	Job Reference (optional)

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Scale = 1:67.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.35	Horiz(TL)	-0.01	20	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 101 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt REACTIONS All bearings 25-07-06.

(lb) - Max Horiz 1=203 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s)

1, 9, 20 except 10=-141 (LC 14), 11=-133 (LC 14), 14=-129 (LC 13),

15=-148 (LC 13)

Max Grav All reactions 250 (lb) or less at joint 5)

(s) 1, 9, 20 except 10=541 (LC 27), 11=515 (LC 27), 13=884 (LC 29), 14=524 (LC 26), 15=530 (LC 26)

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

(lb) or less except when shown.

1-21=-150/415, 2-21=-136/512, 2-3=-75/458, 8) TOP CHORD 3-22=-38/314, 4-22=-15/372, 4-5=-11/464,

5-6=-11/447, 6-23=-15/355, 7-23=-38/297, 7-8=0/427, 8-24=-24/452, 9-24=-39/330

1-15=-253/81, 14-15=-253/81, **BOT CHORD**

13-14=-253/81, 12-13=-253/81,

11-12=-253/81, 10-11=-253/81, 9-10=-253/81 5-13=-713/0, 3-14=-331/173, 2-15=-352/174,

7-11=-326/174, 8-10=-360/173

NOTES

WEBS

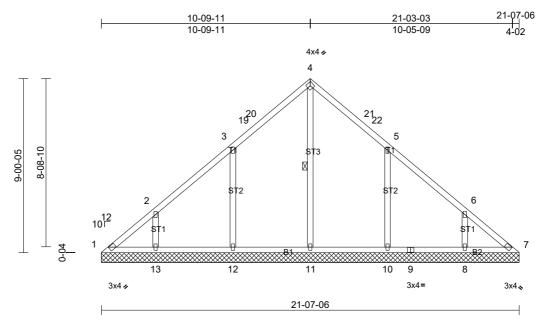
1) This truss has been checked for uniform roof live load only, except as noted.

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 9-10-0, Exterior (2) 9-10-0 to 15-10-0, Interior (1) 15-10-0 to 22-7-10, Exterior (2) 22-7-10 to 25-7-10 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=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this
- 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 ioint(s) 1
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 14, 15, 11, and 10. 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.



Job	Truss	Truss Type	Qty	Ply	
20110098JR	V02	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:4 8sUSHR2WhuFKz5WqS5JuyKEhv-kKSqMi894zGxbEuwl8DlaH9fSN2o4D3dmh9QWVzkv4o Page: 1



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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	-0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 81 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt REACTIONS All bearings 21-07-06.

(lb) - Max Horiz 1=171 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s)

1, 7, 8, 18 except 10=-149 (LC 14), 12=-141 (LC 13), 13=-103 (LC 13)

Max Grav All reactions 250 (lb) or less at joint (s) 1 except 8=386 (LC 2), 10=475 (LC 27), 11=720 (LC 29), 12=488 (LC 26), 13=353 (LC 2)

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

TOP CHORD 1-2=-159/330, 2-3=-108/326, 4-20=-89/324,

4-21=-89/309, 5-6=-2/258

WEBS 4-11=-501/0, 3-12=-350/182, 2-13=-272/136,

5-10=-343/185. 6-8=-287/132

NOTES

FORCES

This truss has been checked for uniform roof live load only, except as noted.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-5 to 2-10-0, Interior (1) 2-10-0 to 7-10-0, Exterior (2) 7-10-0 to 13-10-0, Interior (1) 13-10-0 to 18-7-10, Exterior (2) 18-7-10 to 21-7-10 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=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

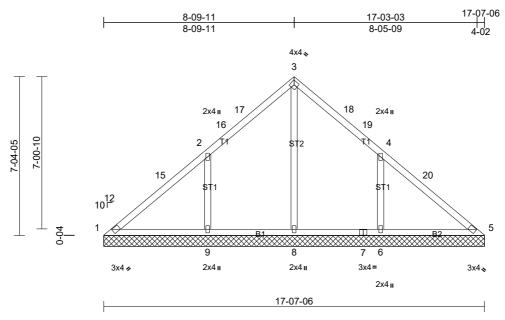
- 4) Unbalanced snow loads have been considered for this design.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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.
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 13, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- 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.



Job	Truss	Truss Type	Qty	Ply	
20110098JR	V03	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:YAiEiol3pgpltUYH4YzKs6yKEhu-kKSqMi894zGxbEuwl8DlgH9e8N2r46admh9QWVzky4o

Page: 1



Scale = 1:53.5

Loading	(psf)	Spacing	2-00-00	CSI	-	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horiz(TL)	0.00	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 61 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

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

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

bracing.

REACTIONS All bearings 17-07-06.

(lb) - Max Horiz 1=-139 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 14 except 6=-159 (LC 14),

9=-164 (LC 13)

Max Grav All reactions 250 (lb) or less at joint (s) 1, 5, 14 except 6=563 (LC 27), 8=793 (LC 26), 9=561 (LC 26)

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

(lb) or less except when shown.

TOP CHORD 1-15=-85/355, 2-15=-62/456, 16-17=0/305, 3-17=0/415, 3-18=0/413, 18-19=0/304,

4-20=-12/454, 5-20=-35/329

BOT CHORD 1-9=-253/77, 8-9=-253/77, 7-8=-253/77,

6-7=-253/77, 5-6=-253/77

WEBS 3-8=-686/0, 2-9=-380/190, 4-6=-384/189

NOTES

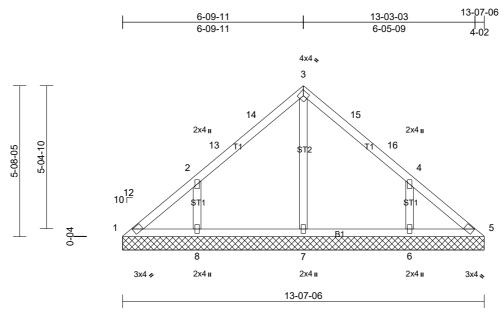
- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-10-0, Exterior (2) 5-10-0 to 11-10-0, Interior (1) 11-10-0 to 14-7-10, Exterior (2) 14-7-10 to 17-7-10 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=1.60
- 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- 8) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
20110098JR	V04	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:YSGCwSYc0F4?bps9eaNvGVvKEA?-kKSqMi894zGxbEuwl8DlqH9hiN3D4Dndmh9QWVzkv4o

Page: 1



:43.6

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 45 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **OTHERS**

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS All bearings 13-07-06.

(lb) - Max Horiz 1=107 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-121 (LC 14), 8=-123 (LC

Max Grav All reactions 250 (lb) or less at joint LOAD CASE(S) Standard (s) 1, 5 except 6=402 (LC 2), 7=337 (LC 2), 8=402 (LC 2)

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

(lb) or less except when shown.

WEBS 3-7=-258/0, 2-8=-316/158, 4-6=-316/157

FORCES

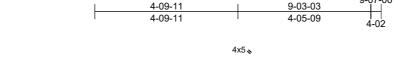
- 1) This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-5 to 2-10-0, Interior (1) 2-10-0 to 3-10-0, Exterior (2) 3-10-0 to 9-10-0, Interior (1) 9-10-0 to 10-7-10, Exterior (2) 10-7-10 to 13-7-10 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=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct = 1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.

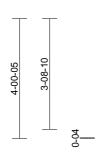
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at ioint(s) 1.
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral 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.

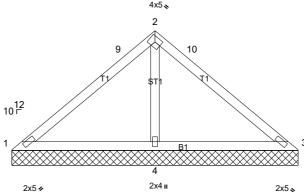
Job	Truss	Truss Type	Qty	Ply	
20110098JR	V05	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:qoBrOre?MPz?wuuVYY?c2_yKE9u-kKSqMi894zGxbEuwl8DlqH9fYN1j4D5dmh9QWVzky4o

Page: 1







9-07-06

Scale = 1:38.9

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.23	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

9-7-6 oc purlins.

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

bracing.

REACTIONS (size) 1=9-07-06, (min. 1-08), 3=9-07-06, (min. 1-08), 4=9-07-06, (min. 1-08)

Max Horiz 1=-74 (LC 9)

Max Uplift 1=-15 (LC 20), 3=-15 (LC 19),

4=-88 (LC 13)

Max Grav 1=64 (LC 19), 3=64 (LC 20), 4=891

(LC 2)

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

(lb) or less except when shown.

TOP CHORD 1-9=-74/278, 2-9=-54/388, 2-10=-54/388,

3-10=-74/278 2-4=-700/162

WEBS NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) 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.

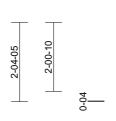
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1 and 15 lb uplift at joint 3.
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
 -) 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.

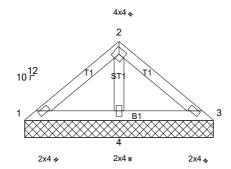
Job	Truss	Truss Type	Qty	Ply	
20110098JR	V06	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:bLat4ak0Usztu6W10D9UNavKE9m-kKSaMi894zGxbEuwl8DlaH9i9N3l4FBdmh9QWVzkv4o

Page: 1







5-07-06

Scale = 1:34.5

Loading	(psf)	Spacing	2-00-00	csı	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	ļ		ļ							Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-6 oc purlins.

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

bracing.

REACTIONS (size)

1=5-07-06, (min. 1-08), 3=5-07-06, (min. 1-08), 4=5-07-06, (min. 1-08)

Max Horiz 1=-42 (LC 9)

Max Uplift 3=-4 (LC 14), 4=-36 (LC 13)

Max Grav 1=65 (LC 19), 3=65 (LC 20), 4=439

(LC 2)

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

(lb) or less except when shown.

WEBS 2-4=-297/63

NOTES

- 1) This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 3.

- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral
- 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.

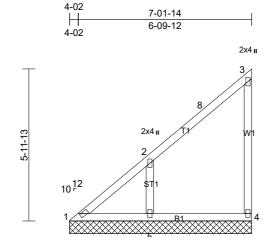


Job	Truss	Truss Type	Qty	Ply	
20110098JR	V07	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:ypa4gah8Z2QOI6DsHZTDXSyKEcE-kKSqMi894zGxbEuwl8DlqH9gBN354F2dmh9QWVzky4o

2x4 II

Page: 1



Scale = 1:45.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 lb	FT = 20%

2x4 II

7-01-14

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing

REACTIONS (size)

1=7-01-14, (min. 1-08), 4=7-01-14, (min. 1-08), 5=7-01-14, (min. 1-08)

Max Horiz 1=166 (LC 10)

Max Uplift 1=-21 (LC 9), 4=-43 (LC 10),

5=-125 (LC 13)

Max Grav 1=145 (LC 27), 4=163 (LC 26),

5=441 (LC 2)

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

(lb) or less except when shown.

WEBS 2-5=-339/180

NOTES

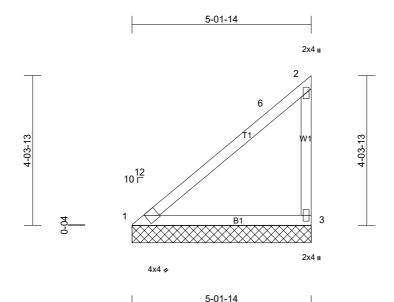
- This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint
- 8) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 5. 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.

Job	Truss	Truss Type	Qty	Ply	
20110098JR	V08	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:oTI0JrLNQqibl46DcQ7p0dyKEE8-kKSqMi894zGxbEuwl8DlqH9eyN?r4Fndmh9QWVzky4o

Page: 1



Scale = 1:33.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.35	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 17 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or

5-2-3 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=5-01-14, (min. 1-08), 3=5-01-14,

(min. 1-08)

Max Horiz 1=116 (LC 10) Max Uplift 1=-1 (LC 13), 3=-51 (LC 13)

Max Grav 1=251 (LC 2), 3=255 (LC 26)

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

TOP CHORD 1-6=-303/45

NOTES

FORCES

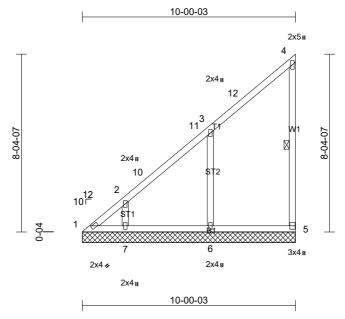
- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1.

- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. 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	
20110098JR	V09	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:FS_hI7VXeDvwyoq8CynFQyyKE8n-kKSqMi894zGxbEuwl8DlqH9fxN224Dfdmh9QWVzky4o

Page: 1



Scale = 1:54.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.14	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 41 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.
WEBS 1 Row a

WEBS 1 Row at midpt 4-5 **REACTIONS** All bearings 10-00-03.

(lb) - Max Horiz 1=236 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 7 except 6=-142 (LC 13)

Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 6=510 (LC 26),

7=334 (LC 2)

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

(lb) or less except when shown. 3-6=-355/169, 2-7=-269/136

WEBS NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-7-13, Exterior (2) 5-7-13 to 9-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.

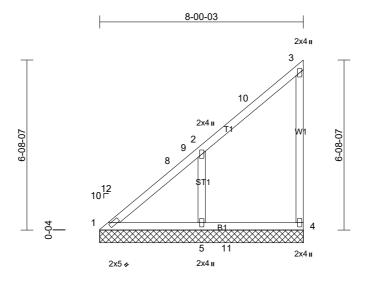
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at ioint(s) 1.
- 8) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 6, and 7. 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	
20110098JR	V10	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:r9q_EvfJLWgxdyuq1u1X_vyKE8Z-kKSqMi894zGxbEuwl8DIqH9f9N2r4Eldmh9QWVzky4o

Page: 1



Scale = 1:45.6

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 31 lb	FT = 20%

8-00-03

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (size)

1=8-00-03, (min. 1-08), 4=8-00-03, (min. 1-08), 5=8-00-03, (min. 1-08)

Max Horiz 1=187 (LC 10)

Max Uplift 1=-16 (LC 9), 4=-46 (LC 10),

5=-141 (LC 13)

Max Grav 1=181 (LC 27), 4=204 (LC 26), 5=526 (LC 26)

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

(lb) or less except when shown. WEBS 2-5=-367/185

NOTES

FORCES

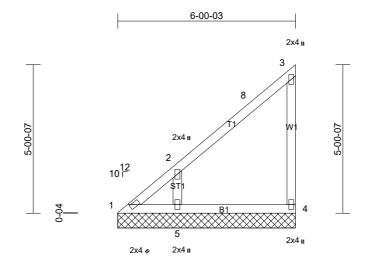
- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-7-13, Exterior (2) 3-7-13 to 7-10-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 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.

Job	Truss	Truss Type	Qty	Ply	
20110098JR	V11	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:NEo1bNsLaRhgYP7vzFJHeHyKE8J-kKSqMi894zGxbEuwl8DlqH9gIN3B4F9dmh9QWVzky4o

Page: 1



Scale = 1:39.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.07	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: 22 lb	FT = 20%

6-00-03

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (size)

1=6-00-03, (min. 1-08), 4=6-00-03, (min. 1-08), 5=6-00-03, (min. 1-08)

Max Horiz 1=138 (LC 10)

Max Uplift 1=-34 (LC 11), 4=-38 (LC 10), 5=-110 (LC 13)

Max Grav 1=82 (LC 10), 4=166 (LC 26), 5=398 (LC 2)

5=398 (LC 2)

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

(lb) or less except when shown.

WEBS 2-5=-334/189

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) 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.

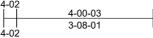
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1.
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 5. This connection is for uplift only and does not consider lateral forces.
- O) This 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.



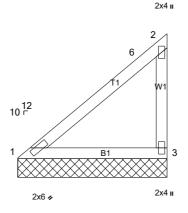
Job	Truss	Truss Type	Qty	Ply	
20110098JR	V12	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:vJm4vr2OpLiPTsL vcc1HfvKE83-kKSaMi894zGxbEuwl8DlaH9aVN1 4Fndmh9QWVzkv4o

4-00-03 3-08-01







4-00-03

Scale = 1:31.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.21	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: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=4-00-03, (min. 1-08), 3=4-00-03,

(min. 1-08)

Max Horiz 1=88 (LC 10)

Max Uplift 1=-1 (LC 13), 3=-39 (LC 13) Max Grav 1=194 (LC 2), 3=197 (LC 26)

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

(lb) or less except when shown.

FORCES NOTES

- 1) This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.;
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint

- 8) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. 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.

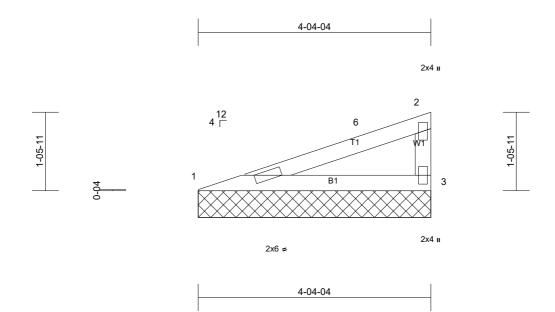
LOAD CASE(S) Standard

Page: 1

Job	Truss	Truss Type	Qty	Ply	
20110098JR	V13	Valley	1	1	Job Reference (optional)

Run: 8.41 S Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 09:25:18 ID:Vm9iLXBouM ?4EYx98sb4PvKEnC-G8uS8M8XJf85z4JkCRh3H3dVlziALoXTX1Ps 2zkv4p

Page: 1



Scale = 1	:21.7	
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Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.25	BC	0.25	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			I							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD Structural wood sheathing directly applied or

4-4-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=4-04-04, (min. 1-08), 3=4-04-04,

(min. 1-08)

Max Horiz 1=40 (LC 10) Max Uplift 1=-19 (LC 9), 3=-25 (LC 13)

Max Grav 1=211 (LC 2), 3=211 (LC 2)

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

TOP CHORD 1-6=-440/102

BOT CHORD 1-3=-110/408

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint

- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. 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.