

ROOF TRUSSES

Re: J1086674 HC Homes Inc



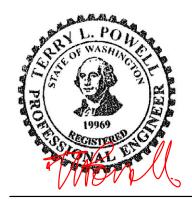
Tri-State Engineering, Inc. 12810 NE 178th Street Suite 218 Woodinville, WA 98072 425.481.6601

The truss drawing(s) referenced below have been prepared by Tri-State Engineering under my direct supervision based on the parameters provided by The Truss Company (Sumner).

Pages or sheets covered by this seal: I14706691 thruI14706706

My license renewal date for the state of Washington is August 20, 2024.

REPORT REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS



April 17,2023

Terry Powell

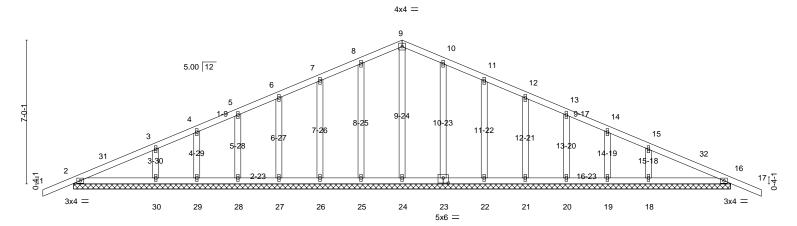
The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1.

Truss Type HC Homes Inc Truss Qty PRRNSF20230918 114706691 J1086674 Common Supported Gable | Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:51:58 2023 Page 1 ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-9TGTn7hIH_KQ941Za4Ps_Jn074rnBJMZjNa0W32Qkq?

The Truss Company (Sumner), Sumner, WA - 98390

> 33-6-0 32-0-0 -1-6-0 16-0-0

> > Scale = 1:56.1



32-0-0 Plate Offsets (X,Y)-- [23:0-3-0,0-3-0] LOADING (psf) SPACING-DEFL PLATES 2-0-0 I/def L/d TCLL 25.0 Plate Grip DOL 0.00 120 MT20 185/148 1.15 TC 0.14 Vert(LL) n/ı (Roof Snow=25.0) Lumber DOL 1.15 BC WB 0.08 Vert(CT) 0.01 17 n/r 90 TCDL Rep Stress Incr YES 0.13 Horz(CT) 0.00 16 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 148 lb FT = 20% Matrix-SH BCDL

BOT CHORD

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

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

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

32-0-0

LUMBER-BRACING-TOP CHORD TOP CHORD 2x4 HF No.2

BOT CHORD 2x4 HF No.2 2x4 DF Stud OTHERS

REACTIONS. ONS. All bearings 32-0-0.
(lb) - Max Horz 2=-71(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16

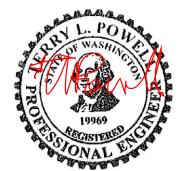
Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 27, 28, 29, 23, 22, 21, 20, 19 except 2=258(LC 19), 30=286(LC 1),

18=286(LC 1), 16=258(LC 20)

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

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-8-6, Exterior(2N) 1-8-6 to 12-9-10, Corner(3R) 12-9-10 to 19-2-6, Exterior(2N) 19-2-6 to 30-3-10, Corner(3E) 30-3-10 to 33-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 10) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) All dimensions given in feet-inches-sixteenths (FFIISS) format.
- 14) Notch 4-0-0 o.c.

LOAD CASE(S) Standard



April 17,2023







Truss Truss Type Qty PRRNSF20230918 114706692 J1086674 A2 Common 16 Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:51:59 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-dgqr_ShN2ISHnEbl8nw5XWK?DU2Lwjmiy1Ka3WzQkq_ The Truss Company (Sumner), Sumner, WA - 98390 24-0-0 32-0-0 3<u>3-6-0</u> 16-0-0 -1-6-0 8-0-0

HC Homes Inc

Structural wood sheathing directly applied.

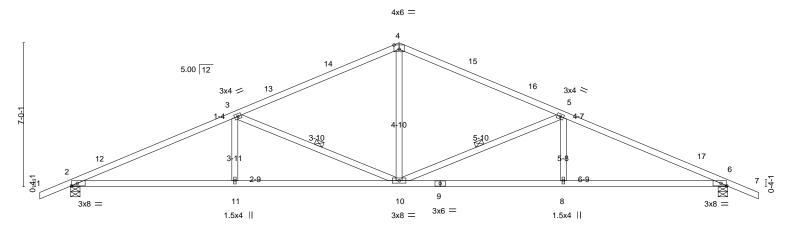
1 Row at midpt

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

5-10, 3-10

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

Scale = 1:56.1



	8-0-0	16-0-0	24-0-0	32-0-0		
	8-0-0	8-0-0	8-0-0	8-0-0		
Plate Offsets (X,Y) [2:0-3	Plate Offsets (X,Y) [2:0-3-6,0-1-8], [4:0-3-0,0-2-8], [6:0-3-6,0-1-8]					
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 * BCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.95 BC 0.70 WB 0.38 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.17 10 >999 360 Vert(CT) -0.30 8-10 >999 240 Horz(CT) 0.13 6 n/a n/a	PLATES GRIP MT20 185/148 Weight: 125 lb FT = 20%		

BRACING-

WEBS

BOT CHORD

LUMBER-TOP CHORD 2x4 DF No.1&Btr BOT CHORD 2x4 HF No.2

2x4 DF Stud *Except*

5-10,3-10: 2x4 HF No.2

REACTIONS. (lb/size) 2=1376/0-5-8 (min. 0-2-4), 6=1376/0-5-8 (min. 0-2-4)

Max Horz 2=-71(LC 13)

Max Uplift 2=-46(LC 12), 6=-46(LC 13)

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

2-12=-2608/34, 3-12=-2514/61, 3-13=-1746/66, 13-14=-1635/80, 4-14=-1624/92, 4-15=-1624/92, 15-16=-1635/80, 5-16=-1746/66, 5-17=-2514/61, 6-17=-2608/34 TOP CHORD

BOT CHORD 2-11=-61/2319, 10-11=-61/2319, 9-10=0/2319, 8-9=0/2319, 6-8=0/2319 WEBS $4\text{-}10\text{=}0/781,\,5\text{-}10\text{=-}1006/109,\,5\text{-}8\text{=}0/284,\,3\text{-}10\text{=-}1006/109,\,3\text{-}11\text{=}0/284$

WEBS

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-6, Interior(1) 1-8-6 to 12-9-10, Exterior(2R) 12-9-10 to 19-2-6, Interior(1) 19-2-6 to 30-3-10, Exterior(2E) 30-3-10 to 33-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber
- DOL=1.60 plate grip DOL=1.60
 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



April 17,2023



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



Truss Truss Type Qty HC Homes Inc PRRNSF20230918 114706693 J1086674 АЗ Common 12

15-9-0

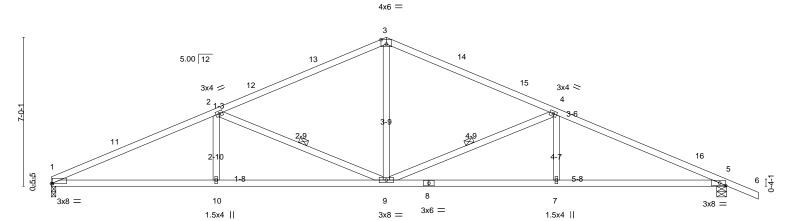
The Truss Company (Sumner), Sumner, WA - 98390

7-9-0

Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:00 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FiHq?zUjAK-5sODBoi?pbb8OOAxhVRK3ks9_uNnfA0rBh37ayzQkpz 31-9-0 33-3-0 23-9-0

Scale = 1:54.2



7-9-0 7-9-0	15-9-0 8-0-0	23-9-0 8-0-0	31-9-0 8-0-0
Plate Offsets (X,Y) [1:0-0-8,0-0-0], [3:0-3-0,0-2-8], [5			
CADING (psf) SPACING- TCLL 25.0 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 CSI. 1.15 TC 0.95 1.15 BC 0.75 YES WB 0.38 Pl2014 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.17 1-10 >999 360 Vert(CT) -0.30 7-9 >999 240 Horz(CT) 0.13 5 n/a n/a	PLATES GRIP MT20 185/148 Weight: 123 lb FT = 20%

BRACING-

BOT CHORD

WEBS

Structural wood sheathing directly applied.

1 Row at midpt

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

4-9, 2-9

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

LUMBER-TOP CHORD 2x4 DF No.1&Btr

BOT CHORD 2x4 HF No.2 2x4 DF Stud *Except* WEBS

4-9,2-9: 2x4 HF No.2

REACTIONS. (lb/size) 1=1254/0-2-8 (min. 0-2-1), 5=1374/0-5-8 (min. 0-2-4)

Max Horz 1=-77(LC 13)

Max Uplift 1=-28(LC 12), 5=-46(LC 13)

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

1-11=-2596/60, 2-11=-2511/78, 2-12=-1741/70, 12-13=-1629/85, 3-13=-1619/97, 3-14=-1619/97, 14-15=-1629/85, 4-15=-1741/70, 4-16=-2510/65, 5-16=-2603/39 TOP CHORD

BOT CHORD 1-10=-65/2311, 9-10=-65/2311, 8-9=0/2314, 7-8=0/2314, 5-7=0/2314 WEBS 3-9=0/779, 4-9=-1006/109, 4-7=0/283, 2-9=-1002/113, 2-10=0/283

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-4 to 3-3-6, Interior(1) 3-3-6 to 12-6-14, Exterior(2R) 12-6-14 to 18-11-2, Interior(1) 18-11-2 to 30-0-14, Exterior(2E) 30-0-14 to 33-3-0 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
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



April 17,2023







Truss Truss Type HC Homes Inc Qty PRRNSF20230918 114706694 J1086674 Common Supported Gable

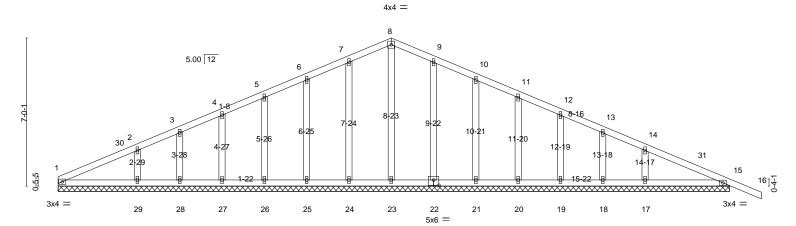
The Truss Company (Sumner), Sumner, WA - 98390

15-9-0

Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:01 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-Z2xbP8jeavj?0Xl8FCyZcxPWNltGOg6?PLpg6OzQkpy 31-9-0 33-3-0

Scale = 1:54.5



31-9-0 31-9-0 [22:0-3-0 0-3-0] Plate Offsets (X Y)-

Fidite Offsets (A, 1)=- [22.0-3-0,0-3-0]					
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.14 BC 0.09 WB 0.13	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 16 n/r 120 Vert(CT) 0.01 16 n/r 90 Horz(CT) 0.00 15 n/a n/a	PLATES GRIP MT20 185/148	
BCLL 0.0 * BCDL 7.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 145 lb FT = 20%	

TOP CHORD BOT CHORD 2x4 HF No.2

2x4 DF Stud OTHERS

LUMBER-

BRACING-TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 31-9-0.

(lb) - Max Horz 1=-77(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 24, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18, 17, 15

Max Grav All reactions 250 lb or less at joint(s) 1, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18 except 29=306(LC 1), 17=286(LC 1), 15=258(LC 20)

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

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 3-2-2, Exterior(2N) 3-2-2 to 12-6-14, Corner(3R) 12-6-14 to 18-11-2, Exterior(2N) 18-11-2 to 30-0-14, Corner(3E) 30-0-14 to 33-3-0 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
- 2) Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 10) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 24, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18, 17, 15.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) All dimensions given in feet-inches-sixteenths (FFIISS) format.
- 14) Notch 4-0-0 o.c.

LOAD CASE(S) Standard



April 17,2023







Truss Truss Type Ply HC Homes Inc Qty PRRNSF20230918 114706695 J1086674 В1 Monopitch Girder | 2 | Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:09 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-KbQd4tpfhMjs_mMgju5RxdkpbWR4FAgAFbl6OxzQkpq The Truss Company (Sumner), Sumner, WA - 98390 12-0-0 13-6-0 -1-6-0 8-0-0 Scale = 1:33.43x4 || 5.00 12 4x6 = 10 4x4 🚄 3 1-4-1 11 12 13 14 9 8 MUS26 MUS26 MUS26 3x6 II 5x6 II 4x4 = MUS26 MUS26 8-0-0 12-0-0 5-5-1 5-5-1 2-6-15 4-0-0 Plate Offsets (X,Y)-- [2:0-5-1,0-2-10], [3:0-1-4,0-1-12], [4:0-2-4,0-2-0], [8:0-4-0,0-1-12], [9:0-4-8,0-1-8] LOADING (psf) SPACING-DEFL. PLATES L/d (loc) I/def TCLL 25.0 Plate Grip DOL 0.45 -0.09 360 185/148 1.15 TC Vert(LL) >999 MT20 (Roof Snow=25.0) Lumber DOL Rep Stress Incr 1.15 BC WB 0.80 Vert(CT) -0.15 2-9 >921 240 TCDL NO 0.67 Horz(CT) 0.02 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 135 lb FT = 20% BCDL

LUMBER-

TOP CHORD 2x4 HF No.2 BOT CHORD 2x6 DF SS WEBS 2x4 DF Stud

BRACING-

BOT CHORD

Structural wood sheathing directly applied or 4-4-10 oc purlins, except end verticals Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=3715/0-5-8 (min. 0-3-3), 2=3713/0-5-8 (min. 0-3-1)

Max Horz 2=142(LC 7)

Max Uplift 7=-245(LC 10), 2=-211(LC 10) Max Grav 7=3902(LC 17), 2=3739(LC 17)

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

TOP CHORD 2-3=-6356/327, 3-10=-3713/189, 4-10=-3649/198, 5-7=-376/58

BOT CHORD 2-11=-338/5782, 11-12=-338/5782, 9-12=-338/5782, 9-13=-338/5782, 8-13=-338/5782, 8-14=-183/3402, 7-14=-183/3402 3-9=-124/2854, 3-8=-3147/204, 4-8=-220/4025, 4-7=-4468/276 WFBS

NOTES-(13)

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-7-0 oc.

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

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

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

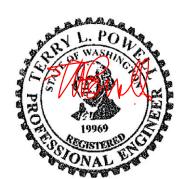
 3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end
- zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design
- 6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=245, 2=211. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Use MiTek MUS26 (With 6-10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to
- connect truss(es) A3 (1 ply 2x6 DF) to front face of bottom chord. 12) Fill all nail holes where hanger is in contact with lumber.
- 13) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard

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

Vert: 1-5=-66, 5-6=-66, 2-7=-14

Vert: 8=-1255(F) 11=-1255(F) 12=-1255(F) 13=-1255(F) 14=-1255(F)



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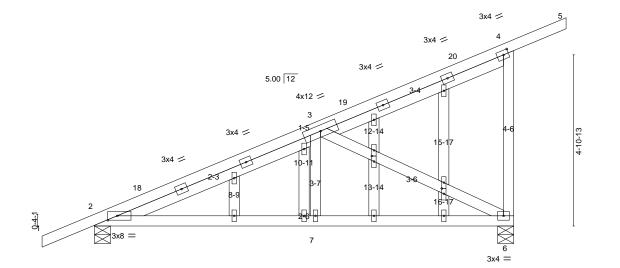






Truss Truss Type HC Homes Inc Qty PRRNSF20230918 114706696 J1086674 B2 GABLE Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:10 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FiHq?zUjAK-on_?IDqHSgrjbwxsHbdgTrH1kwvx_gxKUFUfxNzQkpp The Truss Company (Sumner), Sumner, WA - 98390 13-6-0 12-0-0 -1-6-0



12-0-0 6-3-14 6-3-14 5-8-2 Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [4:0-1-12,0-1-8], [14:0-1-14,0-0-12], [17:0-1-14,0-0-12] LOADING (psf) SPACING-DEFL PLATES I/defI (loc) L/d TCLL 25.0 Plate Grip DOL 0.30 Vert(LL) -0.05 >999 360 185/148 1.15 TC 2-7 MT20 (Roof Snow=25.0) Lumber DOL Rep Stress Incr 1.15 BC WB 0.31 Vert(CT) -0.08 2-7 -aaa 240 TCDL YES 0.48 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 82 lb FT = 20% BCDL

BRACING-

TOP CHORD 2x4 DF No.1&Btr BOT CHORD 2x4 HF No.2 **BOT CHORD** 2x4 DF Stud WEBS

MiTek recommends that Stabilizers and required cross bracing be installed OTHERS 2x4 DF Stud during truss erection, in accordance with Stabilizer Installation guide. SLIDER Left 2x4 DF No.1&Btr 5-11-14

REACTIONS. (lb/size) 2=580/0-5-8 (min. 0-1-8), 6=573/0-5-8 (min. 0-1-8)

Max Horz 2=143(LC 9) Max Uplift 2=-26(LC 12), 6=-62(LC 12)

Max Grav 2=606(LC 19), 6=760(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-18=-779/60, 3-18=-708/78, 4-6=-416/115

BOT CHORD 2-7=-80/654, 6-7=-85/647

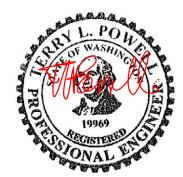
WEBS 3-6=-719/173

NOTES-

LUMBER-

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-6-0, Corner(3E) 10-6-0 to 13-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) All dimensions given in feet-inches-sixteenths (FFIISS) format.
- 13) Notch 4-0-0 o.c.

LOAD CASE(S) Standard



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

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

April 17,2023

Scale = 1:33.0





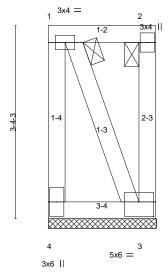


Truss Type HC Homes Inc Truss Qty PRRNSF20230918 114706697 FLAT SUPPORTED GABLE J1086674 BP1 18

The Truss Company (Sumner), Sumner, WA - 98390 Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:11 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-GzYNVZrvD_zaD4W3rl8v02pDCKl2jBBTjvECTpzQkpo

Scale = 1:20.0



1-10-6 1-10-6

Plate Offsets (X,Y) [3:0-3	-0,0-3-0]			
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 * BCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.25 BC 0.06 WB 0.22 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 185/148 Weight: 16 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 1-2, except end verticals.

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

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

LUMBER-TOP CHORD 2x4 HF No.2

BOT CHORD 2x4 HF No.2 2x4 DF Stud WEBS

REACTIONS. (lb/size) 4=63/1-10-8 (min. 0-1-8), 3=63/1-10-8 (min. 0-1-8)

Max Horz 4=65(LC 8)

Max Uplift 4=-831(LC 29), 3=-831(LC 32) Max Grav 4=838(LC 36), 3=838(LC 33)

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

TOP CHORD 1-4=-827/837, 1-2=-378/372

BOT CHORD 3-4=-410/405

NOTES-

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60
 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=831, 3=831
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.60) Plate grip DOL=(1.60) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 250.0 plf.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 14) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



April 17,2023



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

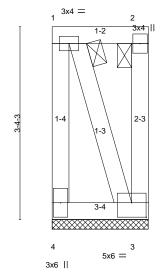


Truss Type HC Homes Inc Truss Qty PRRNSF20230918 114706698 J1086674 BP2 FLAT SUPPORTED GABLE

The Truss Company (Sumner), Sumner, WA - 98390 Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:12 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-IA6mjvrX_H5RrE5FO0f8YGMOvjeTSeUcxZzm?GzQkpn

Scale = 1:20.0



1-8-1 1-8-1

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

LOADING (psf) TCLL 25.0	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
(Roof Snow=25.0)	Plate Grip DOL 1.15	TC 0.25	Vert(LL) n/a - n/a 999	MT20 185/148
(Lumber DOL 1.15	BC 0.05	Vert(CT) n/a - n/a 999	
TCDL 8.0	Rep Stress Incr YES	WB 0.22	Horz(CT) -0.00 3 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-P		Weight: 15 lb FT = 20%
BCDI 7.0	00de 11(02010/11 12014	IVIGUIX-I		Weight. 13 ib 11 = 2070

BRACING-TOP CHORD

BOT CHORD

2-0-0 oc purlins: 1-2, except end verticals.

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

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

LUMBER-TOP CHORD

BOT CHORD 2x4 HF No.2 2x4 DF Stud WEBS

REACTIONS. (lb/size) 4=55/1-8-0 (min. 0-1-8), 3=55/1-8-0 (min. 0-1-8)

Max Horz 4=-65(LC 7)

Max Uplift 4=-839(LC 29), 3=-839(LC 32) Max Grav 4=845(LC 36), 3=845(LC 33)

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

TOP CHORD 1-4=-836/845, 1-2=-335/329

BOT CHORD 3-4=-367/361

NOTES-

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60
 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=839, 3=839.
- 10) Non Standard bearing condition. Review required.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.60) Plate grip DOL=(1.60) Connect truss to resist drag loads along bottom chord
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



April 17,2023



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



Truss Truss Type HC Homes Inc PRRNSF20230918 114706699 J1086674 C1 GABLE | Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:12 2023 Page 1 ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-IA6mjvrX_H5RrE5FO0f8YGMOTjbBShwcxZzm?GzQkpn The Truss Company (Sumner), Sumner, WA - 98390 4-11-8 4x4 = 4 Scale = 1:15.3 1.5x4 || 3x4 = 5.00 12 4-5 6-7 3 0-4-1 2-5 5 1.5x4 || 3x4 II 3x4 4-11-8 4-11-8 Plate Offsets (X,Y)-- [3:0-0-12,0-1-8]

LOADING (psf) SPACING-PLATES 2-0-0 (loc) I/def L/d TCLL 25.0 Plate Grip DOL 0.22 Vert(LL) -0.03 >999 360 MT20 185/148 1.15 TC (Roof Snow=25.0) Lumber DOL Rep Stress Incr 1.15 BC WB 0.20 0.00 Vert(CT) -0.05 2-5 -aaa 240 TCDL YES Horz(CT) 0.00 n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 25 lb FT = 20% BCDL

BRACING-

BOT CHORD

LUMBER-TOP CHORD 2x4 DF No.1&Btr

BOT CHORD 2x4 HF No.2 2x4 DF Stud WEBS OTHERS 2x4 DF Stud

SLIDER Left 2x4 DF No.1&Btr 4-3-14

REACTIONS. (lb/size) 5=168/Mechanical, 2=314/0-3-8 (min. 0-1-8)

Max Horz 2=56(LC 9)
Max Uplift 5=-13(LC 12), 2=-26(LC 12) Max Grav 5=239(LC 19), 2=463(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 1-9-12, Corner(3E) 1-9-12 to 4-9-12 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 6) Gable studs spaced at 2-0-0 oc. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
- chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) All dimensions given in feet-inches-sixteenths (FFIISS) format.
- 13) Notch 4-0-0 o.c.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.

MiTek recommends that Stabilizers and required cross bracing be installed

during truss erection, in accordance with Stabilizer Installation guide.

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

April 17,2023



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



Job Truss Truss Type Qty HC Homes Inc PRRNSF20230918 114706700 J1086674 C2 MONOPITCH 18 Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:13 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-DMg8wFs9lbDISOgRyjAN5TvWo7yXB8AmADjJXizQkpm The Truss Company (Sumner), Sumner, WA - 98390 4-11-8 Scale = 1:15.3 3x4 | 5.00 12 3-4 0-4-1 4 3x4 II

4-11-8 LOADING (psf) DEFI. GRIP SPACING-2-0-0 CSL in I/defl I/d PLATES Plate Grip DOL TC -0.03 185/148 1.15 Vert(LL) >999 360 2-4 MT20 (Roof Snow=25.0) Lumber DOL 1.15 вС 0.19 -0.05 240 Vert(CT) TCDL 8.0 WB 0.00 Matrix-P Rep Stress Incr YES Code IRC2018/TPI2014 YES Horz(CT) 0.00 **BCLL** FT = 20% Weight: 17 lb BCDL

4-11-8

LUMBER-

TOP CHORD 2x4 HF No.2 BOT CHORD 2x4 HF No.2 WEBS 2x4 DF Stud BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 4=162/Mechanical, 2=319/0-5-8 (min. 0-1-8)

Max Horz 2=56(LC 9) Max Uplift 4=-12(LC 12), 2=-26(LC 12) Max Grav 4=230(LC 19), 2=470(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 1-9-12, Exterior(2E) 1-9-12 to 4-9-12 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
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



April 17,2023





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

Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shows the properties of the is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

ANSI/TP1 Quality Criteria, DSB-89 and BCS11 Building Component

Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Truss Truss Type HC Homes Inc PRRNSF20230918 114706701 MONOPITCH SUPPORTED J1086674 СЗ Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:14 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-hYEW7btnWvL94XFeWRhcehRITXKpwaQvPtSt48zQkpl The Truss Company (Sumner), Sumner, WA - 98390 -1-6-0 4x4 = 4 Scale = 1:11.2 5.00 12 3x4 = 2 0-4-1 2-5 5 3x4 II 3x4 =2-11-8 LOADING (psf) SPACING-DEFI. GRIP 2-0-0 CSI. in (loc) I/defl I/d PLATES TCLL Plate Grip DOL TC -0.00 Vert(LL) 185/148 1.15 0.18 >999 360 2-5 MT20 (Roof Snow=25.0) Lumber DOL 1.15 вС 2-5 240 Vert(CT) -0.01 TCDL 8.0 WB 0.00 Matrix-P Rep Stress Incr YES Code IRC2018/TPI2014 YES Horz(CT) 0.00

BRACING-

TOP CHORD

BOT CHORD

BCDL LUMBER-

BCLL

TOP CHORD 2x4 DF No.1&Btr BOT CHORD 2x4 HF No.2 WFBS 2x4 DF Stud

Left 2x4 DF No.1&Btr 2-1-14 SLIDER

REACTIONS. (lb/size) 5=73/Mechanical, 2=249/0-3-8 (min. 0-1-8)

Max Horz 2=36(LC 9)

Max Uplift 5=-3(LC 12), 2=-29(LC 8) Max Grav 5=100(LC 19), 2=363(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 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
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



FT = 20%

Weight: 14 lb

Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals

MiTek recommends that Stabilizers and required cross bracing be installed

during truss erection, in accordance with Stabilizer Installation guide

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

April 17,2023







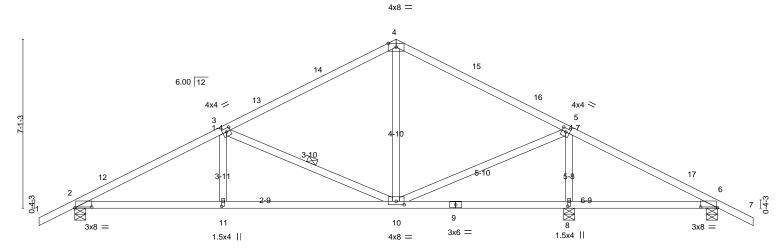
Truss Truss Type Qty HC Homes Inc PRRNSF20230918 114706702 J1086674 D1 COMMON 20 Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:15 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FiHq?zUjAK-9louLxuQHCT0ihqq48CrAu_j_xVHfw53dXCQcazQkpk

The Truss Company (Sumner), Sumner, WA - 98390

> 27-0-0 -1-6-0 20-9-4 28-6-0 13-6-0

> > Scale: 1/4"=1"



	L	6-2-12	13-6-0	20-9-4 27-0-0	
		6-2-12	7-3-4	7-3-4 6-2-12	
Plate Offsets (X,Y) [2:0-8-8,0-0-6], [3:0-2-0,0-1-12], [5:0-2-0,0-1-12], [6:0-8-8,0-0-6], [8:0-2-8,0-0-12], [10:0-4-0,0-1-12], [11:0-2-8,0-0-12]					
BCLL (SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr N Code IRC2018/TPI201	5 TC 0.97 15 BC 0.75 O WB 0.49	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.09 11 >999 360 MT20 185/148 Vert(CT) -0.15 2-11 >999 240 Horz(CT) 0.05 8 n/a n/a Weight: 112 lb FT = 20%	

LUMBER-TOP CHORD 2x4 DF 2400F 2.0E

BOT CHORD 2x4 HF No.2 2x4 DF Stud *Except* WEBS

5-10,3-10: 2x4 HF No.2

BRACING-TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 4-3-12 oc purlins.

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

1 Row at midpt 3-10

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

REACTIONS. (lb/size) 2=1657/0-5-8 (min. 0-2-13), 8=1604/0-5-8 (min. 0-2-10), 6=172/0-5-8 (min. 0-1-8)

Max Horz 2=-74(LC 13)

Max Uplift 2=-87(LC 12), 8=-20(LC 13), 6=-38(LC 13) Max Grav 2=1718(LC 19), 8=1604(LC 1), 6=193(LC 20)

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

TOP CHORD 2-12=-2728/138, 3-12=-2313/141, 3-13=-1254/97, 13-14=-957/102, 4-14=-941/108, 4-15=-908/115,

15-16=-957/101, 5-16=-1030/87, 5-17=0/400, 6-17=-21/326

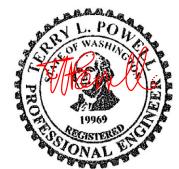
 $2\text{-}11\text{=-}116/2249,\ 10\text{-}11\text{=-}116/2249,\ 9\text{-}10\text{=-}307/43,\ 8\text{-}9\text{=-}307/43,\ 6\text{-}8\text{=-}307/43}$ **BOT CHORD** 4-10=0/289, 5-10=-22/1268, 5-8=-1494/108, 3-10=-1518/141, 3-11=0/251 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-6-0, Exterior(2R) 10-6-0 to 16-6-0, Interior(1) 16-6-0 to 25-6-0, Exterior(2E) 25-6-0 to 28-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
- chord and any other members. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-66, 4-7=-66, 2-6=-14 Trapezoidal Loads (plf) Vert: 2=-177-to-4=-118



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



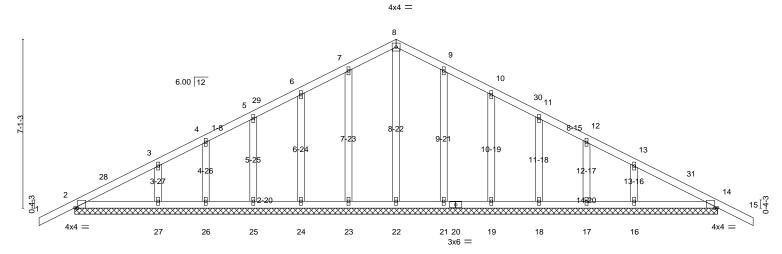
Job Truss Type HC Homes Inc Truss Qty PRRNSF20230918 114706703 J1086674 D2 COMMON SUPPORTED GAB

The Truss Company (Sumner). Sumner, WA - 98390

Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:17 2023 Page
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-57vfmcvgoqkkx?zDBZFJFJ3CskGD7v2M5qhXgTzQkpi 27-0-0 -1-6-0 13-6-0 28-6-0

Scale: 1/4"=1"



27-0-0 27-0-0 Plate Offsets (X,Y)-- [2:0-1-8,Edge], [14:0-1-8,Edge] LOADING (psf) SPACING-DEFL PLATES 2-0-0 I/def L/d TCLL 25.0 0.00 120 185/148 1.15 TC 0.37 Vert(LL) n/ı MT20

Plate Grip DOL (Roof Snow=25.0) Lumber DOL 1.15 BC WB 0.33 Vert(CT) 0.00 n/r ٩n TCDL Rep Stress Incr NO 0.14 0.03 22 Horz(CT) n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 128 lb BCDL LUMBER-

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-8-13 oc purlins. Rigid ceiling directly applied or 4-0-7 oc bracing.

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

2x4 DF Stud REACTIONS. All bearings 27-0-0.

TOP CHORD 2x4 HF No.2

BOT CHORD 2x4 HF No.2

OTHERS

(lb) - Max Horz 2=-74(LC 45)

Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 25, 26, 27, 21, 19, 18, 17, 16 except 2=-1038(LC 44), 14=-1042(LC 45) Max Grav All reactions 250 lb or less at joint(s) 22, 24, 25, 26, 27, 19, 18, 17, 16 except 2=1109(LC 55), 23=252(LC 19), 21=252(LC

20), 14=1109(LC 54)

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

TOP CHORD 2-28=-2351/2295, 3-28=-2084/2041, 3-4=-1716/1719, 4-5=-1370/1396, 5-29=-1027/1075, 6-29=-893/888,

 $6-7 = -683/755, \ 7-8 = -346/433, \ 8-9 = -346/428, \ 9-10 = -681/738, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 9-10 = -681/738, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859, \ 11-30 = -1016/1048, \ 10-30 = -912/859$

11-12=-1351/1365, 12-13=-1693/1687, 13-31=-2052/2022, 14-31=-2320/2267 2-27=-2023/2095, 26-27=-1503/1570, 25-26=-1203/1270, 24-25=-903/970, 23-24=-603/670, 22-23=-303/370,

21-22=-303/370, 20-21=-333/400, 19-20=-603/670, 18-19=-903/970, 17-18=-1203/1270, 16-17=-1503/1570,

14-16=-2023/2095

NOTES-

BOT CHORD

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-6-0, Exterior(2N) 16-6-0 to 25-6-0, Corner(3E) 25-6-0 to 28-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 6) All plates are 1.5x4 MT20 unless otherwise indicated. 7) Gable requires continuous bottom chord bearing.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 25, 26, 27, 21, 19, 18, 17, 16 except (it=lb) 2=1038, 14=1042,
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) This truss has been designed for a total drag load of 150 plf. Lumber DOL=(1.60) Plate grip DOL=(1.60) Connect truss to resist drag loads along bottom chord from 0-0-0 to 27-0-0 for 150.0 plf.
- 15) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



April 17,2023



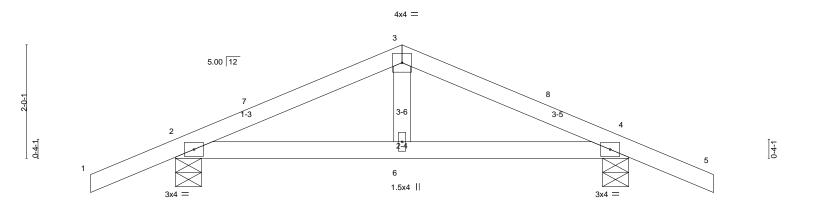
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.



HC Homes Inc Truss Truss Type PRRNSF20230918 114706704 J1086674 E1 KINGPOST Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:18 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-ZKT1zywIZ7sbZ9YPIGmYoXcOj8fcsofVKUQ4DvzQkph The Truss Company (Sumner), Sumner, WA - 98390 9-6-0 -1-6-0 4-0-0 8-0-0

Scale = 1:20.3



		4-0-0 4-0-0	8-0-0 4-0-0	
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 * BCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.30 BC 0.13 WB 0.05 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 2-6 >999 360 Vert(CT) -0.01 2-6 >999 240 Horz(CT) 0.00 4 n/a n/a	PLATES GRIP MT20 185/148 Weight: 25 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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

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

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

LUMBER-

TOP CHORD 2x4 HF No.2 BOT CHORD 2x4 HF No.2

WEBS 2x4 DF Stud

REACTIONS. (lb/size) 2=416/0-5-8 (min. 0-1-8), 4=416/0-5-8 (min. 0-1-8)

Max Horz 2=22(LC 16) Max Uplift 2=-26(LC 12), 4=-26(LC 13) Max Grav 2=555(LC 19), 4=555(LC 20)

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

2-7=-408/60, 3-7=-314/72, 3-8=-314/72, 4-8=-408/60

BOT CHORD 2-6=0/286, 4-6=0/286

NOTES-

- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Exterior(2R) 1-6-0 to 6-6-0, Exterior(2E) 6-6-0 to 9-6-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



April 17,2023



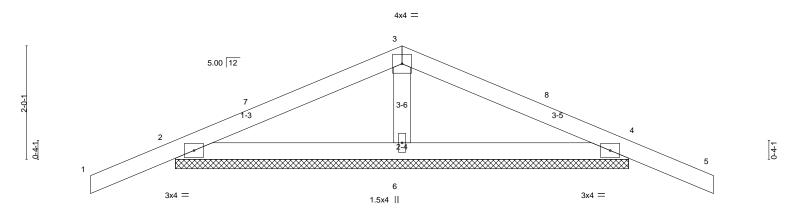




Truss Truss Type HC Homes Inc PRRNSF20230918 114706705 J1086674 E2 GABLE Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:19 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-1W1PBIxwKR_SAJ7bJ_HnLk9YzY03br?eY8AdIMzQkpg The Truss Company (Sumner), Sumner, WA - 98390 9-6-0 -1-6-0 4-0-0 8-0-0

Scale = 1:20.3



	-		8-0-0	
LOADING (psf) TCLL 25.0 (Roof Snow=25.0) TCDL 8.0 BCLL 0.0 * BCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.33 BC 0.12 WB 0.04 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 n/r 120 Vert(CT) 0.00 5 n/r 90 Horz(CT) 0.00 4 n/a n/a	PLATES GRIP MT20 185/148 Weight: 25 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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

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

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

LUMBER-

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

2x4 DF Stud

(lb/size) 2=276/8-0-0 (min. 0-1-8), 4=276/8-0-0 (min. 0-1-8), 6=287/8-0-0 (min. 0-1-8) Max Horz 2=22(LC 16)

Max Uplift 2=-33(LC 12), 4=-37(LC 13)

Max Grav 2=407(LC 19), 4=407(LC 20), 6=287(LC 1)

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

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Corner(3R) 1-6-0 to 6-6-0, Corner(3E) 6-6-0 to 9-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as
- applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

 12) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



April 17,2023







HC Homes Inc Truss Truss Type Qty PRRNSF20230918 114706706 J1086674 EJ1 MONOPITCH Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 16:52:19 2023 Page 1
ID:YLcgXvNyjDRbUpX6?FiHq?zUjAK-1W1PBIxwKR_SAJ7bJ_HnLk9cbY1bbrfeY8AdIMzQkpg The Truss Company (Sumner), Sumner, WA - 98390 -1-0-0 1-0-0 Scale = 1:8.23x4 II 5.00 12 2 1-3 0-4-1 2-4 4 3x4 =3x4 II 1-9-8 1-9-8 LOADING (psf) SPACING-DFFI 2-0-0 CSI. in (loc) I/defl I/d PLATES GRIP Plate Grip DOL TC -0.00

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

0.00

>999

>999

360

240

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

BCDL LUMBER-

REACTIONS.

TCDL

BCLL

(Roof Snow=25.0)

TOP CHORD 2x4 HF No.2 BOT CHORD 2x4 HF No.2 WEBS 2x4 DF Stud

8.0

(lb/size) 4=41/Mechanical, 2=156/0-5-8 (min. 0-1-8)

Lumber DOL

Rep Stress Incr YES Code IRC2018/TPI2014

Max Horz 2=22(LC 9) Max Uplift 4=-1(LC 12), 2=-19(LC 8) Max Grav 4=53(LC 19), 2=211(LC 19)

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

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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

0.10

вС

WB 0.00 Matrix-P

- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

1.15

1.15

YES

- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) All dimensions given in feet-inches-sixteenths (FFIISS) format.

LOAD CASE(S) Standard



185/148

FT = 20%

MT20

Structural wood sheathing directly applied or 1-9-8 oc purlins, except end verticals.

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

Weight: 6 lb

April 17,2023





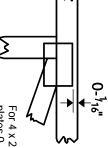


PLATE LOCATION AND ORIENTATION

Symbols



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



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

connector plates required direction of slots in This symbol indicates the

ω

6

ы

* Plate location details available in MITek 20/20 software or upon request

PLATE SIZE

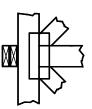
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



number where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

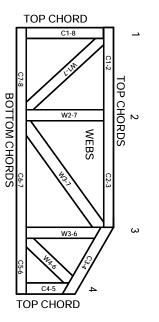
ANSI/TPI1: Industry Standards:

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

DSB-89: BCSI1:

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

9730, 95-43, 96-31, 9667A 95110, 84-32, 96-67, ER-3907, 9432A NER-487, NER-561 ESR-1311, ESR-1352, ER-5243, 9604B

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General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1
- 2 bracing should be considered wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator Truss bracing must be designed by an engineer. For
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- all other interested parties Provide copies of this truss design to the building designer, erection supervisor, property owner and
- Cut members to bear tightly against each other
- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.

Connections not shown are the responsibility of others

- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.