RLH-VK-0018-DSP00-01

Job Truss Truss Type Qty 10_Southeast Ply 149147396 ORDERS SE-14556 COMN Job Reference (optional) 8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:31 2021 Page 1 ID:YstCVLXCl8aib5IKGG1z3?yC_bB-wBmQ0gLEtmbklTMhFxtluDG1X800?hJfOhCkczyBF8s M/R Frederick, MD - 21703 32-11-13 40-0-0 20-0-0 6-5-14 26-5-14 -0-11-4 0-11-4 6-5-14 Scale = 1:69.5 5x6 = 6.00 12 3×4 < 3x4 ≥ 6 5x7 < 5x7 < 15 16 3x8 14 13 12 11 10 3x8 3x4 || 5x6 = 3x8 = 5x6 = 3x4 || 20-0-0 26-5-14 40-0-0 6-5-14 Plate Offsets (X,Y)-[2:0-8-0,0-0-5], [3:0-3-8,0-3-4], [7:0-3-8,0-3-4], [8:0-8-0,0-0-5], [11:0-3-0,0-3-0], [13:0-3-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl Ľd **PLATES** GRIP in (loc)

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud Wind(LL)

BRACING-

Vert(LL)

Vert(CT)

Horz(CT)

-0.19 11-12

-0.39 11-12

0.16 12-13

R

0.16

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.

WEBS 1 Row at midpt 4-12, 6-12

>999

>999

>999

n/a

360

240

n/a

240

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

20.0

10.0

10.0

0.0

Max Horz 2=-180(LC 15)

Max Uplift 2=-229(LC 10), 8=-229(LC 11) Max Grav 2=1653(LC 1), 8=1653(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IBC2021/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-3030/371, 3-4=-2441/332, 4-5=-1866/308, 5-6=-1866/308, 6-7=-2441/332,

7-8=-3030/372

BOT CHORD 2-14=-410/2615, 13-14=-412/2612, 12-13=-240/2105, 11-12=-90/2105, 10-11=-233/2612,

1.15

1.15

YES

8-10=231/2615

WEBS 3-14=0/293, 4-13=-19/465, 5-12=-135/1224, 6-11=-19/465, 7-10=0/293, 3-13=-587/198,

4-12=764/256, 6-12=-764/256, 7-11=-587/198

NOTES- (6-8)

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf 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, with BCDL = 10.0psf.

TC BC

WR.

Matrix-S

0.99

0.91

0.66

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=229, 8=229.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



197/144

FT = 5%

MT20

Weight: 221 lb

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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



NVR, Frederick, MD - 21703

8.530 s Nov 29 2021 MITek Industries, Inc. Tue Dec 7 20:30:36 2021 Page 1 ID:YstCVLXCl8aib5lKGG1z3?yC_bB-G9ZJ3NPNiJE0rEEe2UTTbH_3j9uSg6oOYzwVHAyBF8n

Structural wood sheathing directly applied or 3-10-8 oc purlins,

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

-0-11-4 3-10-8 0-11-4 3-10-8

Scale: 1"=1"

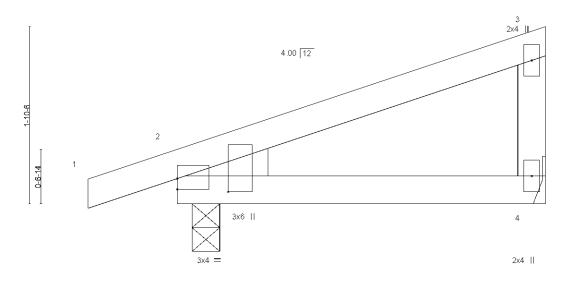


Plate Offsets (X,Y) [2:0-0-0,0-1-5], [2:0-1-11,0-6-7]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IBC2021/T	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 17 lb	FT = 5%

BRACING-

TOP CHORD

BOT CHORD

3-10-8 3-6-14

except end verticals.

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud

WEDGE Left: 2x4 SP or SPF No.3 or Stud

Left: 2x4 SP or SPF No.3 or

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

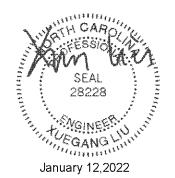
Max Horz 2=62(LC 6)

Max Uplift 4=-37(LC 10), 2=-66(LC 6) Max Grav 4=134(LC 1), 2=218(LC 1)

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

NOTES- (6-8)

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



WARRING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MII-7473 rev. 5/19/20/20 BEFORE USE.

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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



 Job
 Truss
 Truss Type
 Qty
 Ply
 10_Southeast

 ORDERS
 SE-14635
 COMN
 1
 1
 1
 1
 Job Reference (optional)

NVR. Frederick, MD - 21703

0-11-4

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:37:44 2021 Page 1 ID:KS_igM7X9ovqwNHjEMQaQEy68xp-kUQ7ujbrvp9IB0yv7N9rxXiFsh0Tyg0OzYb8JMyBF25

20-0-0 10-0-0 20-11-4

4x6 = Scale = 1:36.4

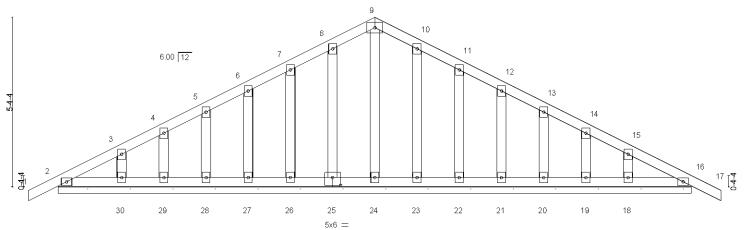


Plate Offsets (X,Y)--[25:0-3-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL Цd **PLATES** GRIP in (loc) I/defl Plate Grip DOL TCLL 20.0 1.15 TC 0.06 Vert(LL) -0.00120 197/144 16 n/r MT20 TCDL 10.0 1.15 ВС 0.03 -0.00 17 n/r 120 Lumber DOL Vert(CT) WB BCLL 0.0 Rep Stress Incr YES 0.05 Horz(CT) 0.00 16 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Weight: 118 lb FT = 5%

LUMBER- BRACING-

10-0-0

10-0-0

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

OTHERS 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=94(LC 10)

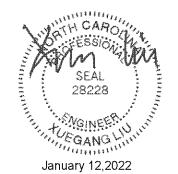
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16

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

NOTES- (10-12)

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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 20.0psf 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) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 11) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 12) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



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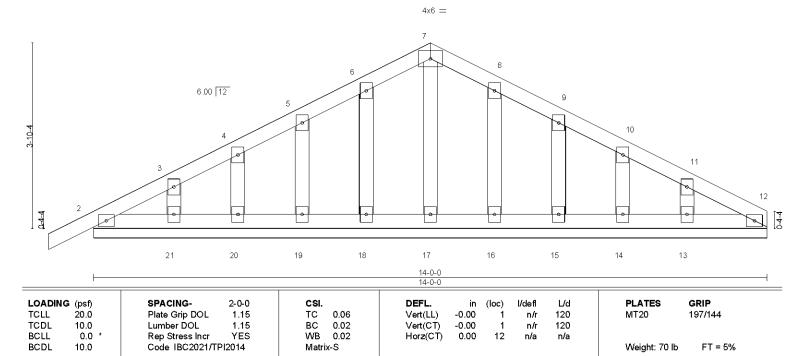
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Type 10_Southeast Truss Qty Ply 149147449 ORDERS SE-14636 COMN 1 Job Reference (optional) M/R Frederick, MD - 21703 8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:37:46 2021 Page 1

ID:KS_igM7X9ovqwNHjEMQaQEy68xp-gtYtJPc5RQP?RK6IEoBJ0ynbMUh?QavhQs4F0FyBF23 14-0-0

Scale: 1/2"=1"



LUMBER-TOP CHORD

-0-11-4 0-11-4

2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.3 or 2x4 SPF Stud OTHERS

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.

REACTIONS. All bearings 14-0-0.

(lb) - Max Horz 2=75(LC 14)

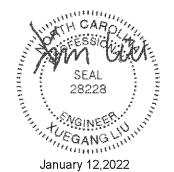
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 19, 20, 21, 16, 15, 14, 13

Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 21, 16, 15, 14, 13

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

NOTES-(10-12)

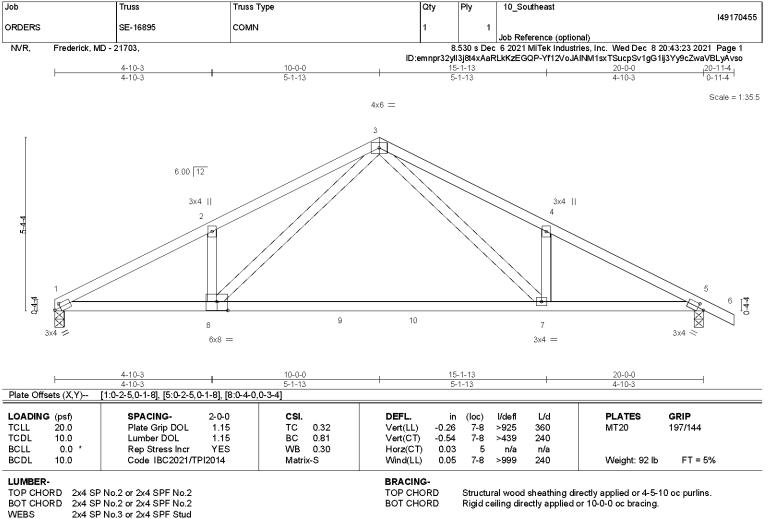
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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.
- * This truss has been designed for a live load of 20.0psf 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) 2, 18, 19, 20, 21, 16, 15, 14, 13.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 11) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 12) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



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REACTIONS.

(size) 1=0-3-8, 5=0-3-8

Max Horz 1=-101(LC 15)

Max Uplift 1=-101(LC 10), 5=-126(LC 11) Max Grav 1=787(LC 1), 5=855(LC 1)

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

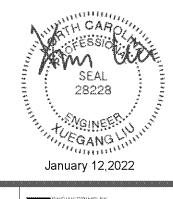
TOP CHORD 1-2=-1466/148, 2-3=-1469/273, 3-4=-1456/267, 4-5=-1458/143

BOT CHORD 1-8=-157/1248, 7-8=-46/758, 5-7=-57/1238

WEBS 4-7=-298/211, 2-8=-307/215, 3-8=-155/706, 3-7=-149/691

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=101, 5=126.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction \times 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
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149170456 ORDERS SE-16896 COMN Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 20:43:24 2021 Page 1 M/R Frederick, MD - 21703 ID:emnpr32yll3j8t4xAaRLkKzEGQP-0rbQj8JoWgUuU51eSKKhSFDRt63JHPVloaJ2jnyAvsn $\frac{-0-11-4}{0-11-4}$ 4-10-3 10-0-0 15-1-13 20-0-0 20-11-4 0-11-4 Scale = 1:35.7 4x6 = 6.00 12 3x4 II 3x4 | 5 3 10 11 9 8 3x4 / 3x4 > 6x8 = 3x4 =10-0-0 4-10-3 15-1-13 20-0-0 4-10-3 5-1-13 5-1-13 4-10-3 [2:0-2-5,0-1-8], [6:0-2-5,0-1-8], [9:0-4-0,0-3-4] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl Цd **PLATES** GRIP in (loc) TC BC Plate Grip DOL TCLL 20.0 1.15 0.31 Vert(LL) -0.268-9 >926 360 197/144 MT20 TCDL 10.0 1.15 0.81 -0.54 8-9 >439 240 Lumber DOL Vert(CT) WB BCLL 0.0 Rep Stress Incr YES 0.30 Horz(CT) 0.03 6 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.05 8-9 >999 240 Weight: 94 lb FT = 5%LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-5-12 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

Qty

Ply

10_Southeast

BOT CHORD WEBS

Job

2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.3 or 2x4 SPF Stud

Truss

Truss Type

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=94(LC 14)

Max Uplift 2=-126(LC 10), 6=-126(LC 11) Max Grav 2=853(LC 1), 6=853(LC 1)

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

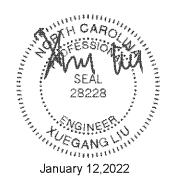
TOP CHORD 2-3=-1454/142, 3-4=-1452/266, 4-5=-1452/266, 5-6=-1454/142

BOT CHORD 2-9=-151/1234, 8-9=-45/754, 6-8=-57/1234

WEBS 5-8=-297/211, 3-9=-297/211, 4-9=-149/691, 4-8=-149/691

NOTES-(6-8)

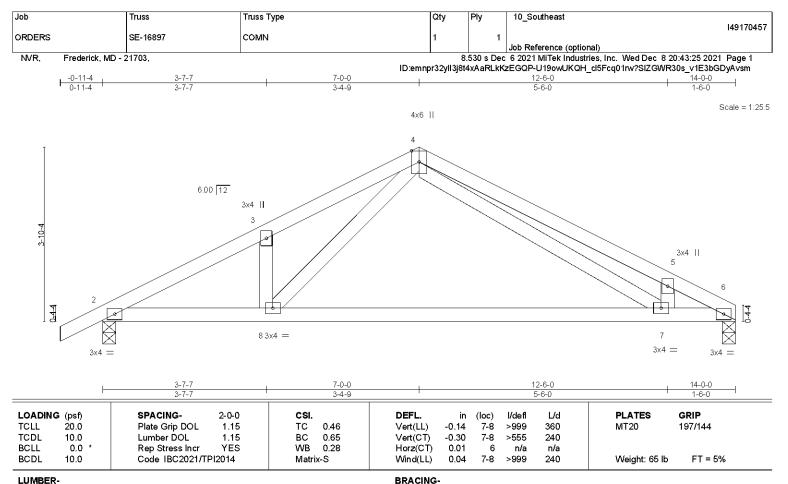
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=126, 6=126.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction \times 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



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ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.3 or 2x4 SPF Stud WEBS

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=75(LC 14) Max Uplift 2=-95(LC 10), 6=-70(LC 11) Max Grav 2=616(LC 1), 6=546(LC 1)

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

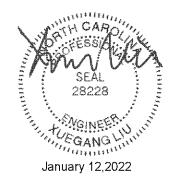
TOP CHORD 2-3=-994/78, 3-4=-966/161, 4-5=-1248/219, 5-6=-1203/87

BOT CHORD 2-8=-87/830, 7-8=-38/524, 6-7=-92/1050

WEBS 4-8=-70/469, 4-7=-129/657

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



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

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

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ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



ORDERS SE-17194 COMN Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 22:07:44 2021 Page 1 M/R Frederick, MD - 21703 $ID:YstCVLXCi8aib5IKGG1z3?yC_bB-hyb?eQcevHYE0w3hglKOSYn48q4mrtzYLp2nKVyAudjinderichter (Communication of Communication (Communication of Communication (Communication of Communication of Communication (Communication of Communication of Communication of Communication of Communication (Communication of Communication of Communicat$ 40-0-0 26-5-14 6-5-14 32-11-13 40-11-4 0-11-4 6-5-14 Scale = 1:68.9 5x6 = 6.00 12 5 5x7 / 5x7 < 6 3x4 = 3x4 = 3x4 \\ 3x4 // 3x6 = 3x6 =3x6 3x8 3x8 = 3x6 =3x6 =3x6 =13 22 23 12 24 25 11 26 27 10 5x7 = 3x4 = 5x7 = 3x4 = 16-1-4 23-10-12 31-8-3 40-0-0 7-9-8 8-3-13 Plate Offsets (X,Y)--[4:0-3-8,0-3-4], [6:0-3-8,0-3-4], [11:0-3-8,0-3-4], [12:0-3-8,0-3-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. Цd **PLATES** GRIP in (loc) I/defl Plate Grip DOL TC BC TCLL 20.0 1.15 0.62 Vert(LL) 0.03 120 197/144 9 n/r MT20 TCDL 10.0 Lumber DOL 1.15 0.58 0.08 9 n/r 120 Vert(CT) 0.31 WB BCLL 0.0 Rep Stress Incr YES Horz(CT) 0.01 8 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Weight: 245 lb FT = 5% LUMBER-

Qty

10_Southeast

149171116

Job

Truss

Truss Type

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud

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. **WEBS** 1 Row at midpt 4-13, 5-12, 5-11, 6-10

REACTIONS. All bearings 40-0-0.

(lb) - Max Horz 2=-180(LC 15)

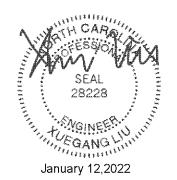
Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 8 except 13=-168(LC 10), 12=-110(LC 10), 10=-174(LC 11) Max Grav All reactions 250 lb or less at joint(s) except 2=343(LC 23), 13=718(LC 23), 12=672(LC 17), 11=665(LC 2), 10=718(LC 24), 8=343(LC 24)

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

3-13=399/240, 4-12=-279/210, 6-11=-279/206, 7-10=-399/239

NOTES-(7-10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 8 except (jt=lb) 13=168, 12=110, 10=174.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph. 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of
- 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph. 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the
- required maximum reaction. 10) Framing and bracing of the gable end frame shall be provided by the building designer.



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ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Type 10_Southeast Truss Qty Ply 149171117 ORDERS SE-17195 SPEC 1 Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 22:07:48 2021 Page 1 NVR. Frederick, MD - 21703 ID:emppr32yll3j8t4xAaRLkKzEGQP-akqVUof8zW2gVYNTvbOKcOynSRO7nXW8GR0?TGyAudf 1-0-91-4-0|1-4-0|1-4-0|1-4-0|1-4-0|1-4-0| 21-0-0 19-0-0 34-6-5x6 = Scale = 1.75.06.00 12 13 14 15 16 17 3-11-0 5x6 = 18 5x6 < 19 6x6 20 6x12 > 43 3-0-0 3x6 = **4**∩ 22 37 49 23 ğ 67 68 32 25 3x6 =3x6 =34 31 30 29 26 28 27 333x8 =5x7 = 5x6 =19-0-0 2-0-0 19-0-0 13-8-8 19-0-0 34-6-14 14-3-6 Plate Offsets (X,Y)--[8:0-3-0,0-3-0], [19:0-3-0,0-3-0], [21:0-3-0,0-2-0], [26:0-3-8,0-3-0], [31:0-3-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl Цd **PLATES** GRIP in Plate Grip DOL TC BC TCLL 20.0 1.15 0.53 Vert(LL) -0.19 25-26 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 0.81 -0.41 25-26 >577 240 Vert(CT) WR. BCLL 0.0 Rep Stress Incr YES 0.91 Horz(CT) 0.04 23 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.06 25-26 >999 240 Weight: 361 lb FT = 5% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins. BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except* **WEBS** 1 Row at midpt 21-40 21-28, 4-32, 36-37, 38-39, 3-34, 21-26, 26-40, 21-25, 22-25, 4-34, 41-42 **JOINTS** 1 Brace at Jt(s): 35, 36, 37, 38, 39, 40, 46, 48 ,14-43: 2x4 SP No.3 or 2x4 SPF Stud 13-29, 15-35: 2x6 SP No.2 OTHERS 2x4 SP No.3 or 2x4 SPF Stud REACTIONS. All bearings 6-7-0 except (jt=length) 2=0-3-8, 23=0-3-8, 27=0-3-8, 33=0-3-8. (lb) - Max Horz 2=-180(LC 11) Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 31, 27 except 28=-148(LC 11), 32=-537(LC 10), 23=-157(LC 11), 30=-116(LC 24) All reactions 250 lb or less at joint(s) 31, 27 except 2=544(LC 23),

28=633(LC 2), 32=409(LC 1), 29=525(LC 1), 23=823(LC 24), 33=733(LC 3)

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

2-3=-840/0, 3-4=-802/63, 9-10=-79/287, 12-13=0/299, 21-22=-1329/329, TOP CHORD

22-23=-1341/211

2-34=112/692, 33-34=-99/391, 32-33=-99/391, 31-32=-224/265, 30-31=-224/265, BOT CHORD

29-30=-224/265, 28-29=-243/270, 27-28=-74/1098, 26-27=-74/1098, 25-26=-8/681,

23-25=-108/1127

WEBS 28-41=-1455/389, 35-41=-1425/381, 35-49=-1368/386, 49-50=-1363/373

40-50=-1323/351, 40-51=-1453/423, 51-52=-1374/379, 52-53=-1357/367 21-53=-1340/362, 4-44=-598/267, 44-48=-552/240, 47-48=-582/258, 46-47=-588/262,

45-46=-623/284, 32-45=-590/264, 29-36=-450/17, 36-38=-484/18, 13-38=-454/33,

21-26=-89/622, 26-40=-314/173, 21-25=-147/658, 22-25=-297/202, 4-34=-17/517,

10-32=-426/263

NOTES-(9-11)

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2



Edenton, NC 27932

STATE OF THE TH GARQ

Job	Truss	Truss Type	Qty	Ply	10_Southeast	
ORDERS	SE-17195	SPEC	1	1 1		149171117
					Job Reference (optional)	

NVR. Frederick, MD - 21703.

8.530 s Dec 6 2021 MITek Industries, Inc. Wed Dec 8 22:07:48 2021 Page 2 ID:emnpr32yll3j8t4xAaRLkKzEGQP-akqVUof8zW2gVYNTvbOKcOynSRO7nXW8GR0?TGyAudf

NOTES- (9-11)

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 29, 31, 27 except (jt=lb) 28=148, 32=537, 23=157, 30=116.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 11) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



Job Truss Truss Type 10_Southeast Qty Ply 149194704 ORDERS SE-18660 COMN Job Reference (optional) M/R 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:23 2021 Page 1 Frederick, MD - 21703 ID:ysQ2IfleTUPcIEyIvGcyuSzmZKC-zZQCEhK6RnaGTwYH?pOoV4PzwezduFJBtTWRZUyAa5g-0-11-4 14-11-4 7-0-0 14-0-0 0-11-4 7-0-0 0-11-4 Scale = 1:27.0 4x6 = 3 6.00 12 3-10-4 44 3x8 || W 6 3x4 || 3x4 / 3x4 < 3x8 II 13-7-14 6-7-14 Plate Offsets (X,Y)--[2:0-2-5,0-1-8], [2:0-0-5, Edge], [4:0-2-5,0-1-8], [4:0-0-5, Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl Цd **PLATES** GRIP in (loc) Plate Grip DOL TC BC TCLL 20.0 1.15 0.73 Vert(LL) -0.052-6 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 0.54 -0.12 2-6 >999 240 Vert(CT) WB BCLL 0.0 Rep Stress Incr YES 0.13 Horz(CT) 0.01 4 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.05 2-6 >999 240 Weight: 54 lb FT = 5% **BRACING-**2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-4-5 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

TOP CHORD BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud

WEDGE

Left: 2x4 SP or SPF No.3 or Stud, Right: 2x4 SP or SPF No.3 or Stud

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

Max Horz 2=-68(LC 15)

Max Uplift 2=-95(LC 10), 4=-95(LC 11) Max Grav 2=614(LC 1), 4=614(LC 1)

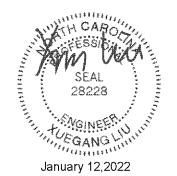
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-780/95, 3-4=-780/95 2-6=-22/612, 4-6=-22/612 BOT CHORD

WEBS 3-6=0/335

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



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Job Truss Type 10_Southeast Truss Qty Ply 149194705 ORDERS SE-18661 COMN 1 Job Reference (optional)

M/R Frederick, MD - 21703

0-11-4

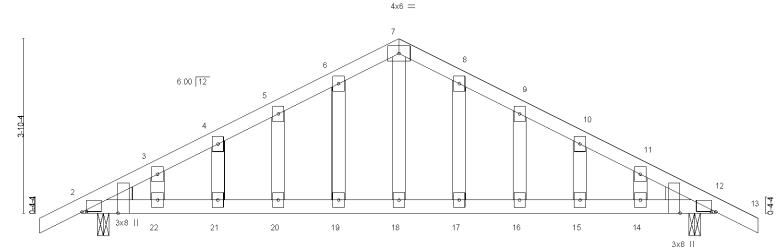
8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:24 2021 Page 1 ID:ysQ2lfleTUPclEylvGcyuSzmZKC-Sm_aS1KkC5i7547UYWv12HyEl2Gbdi2K67G?5xyA5f 14-0-0 14-11-4

0-11-4

Scale = 1:25.5

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

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



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

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X, 1)								
LOADIN	G (psf)	SPACING- 2-0-0	csi.	DEFL. in (loc) I/defl L/d PLATES GRIP				
TCLL	20.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.10 15-16 >999 360 MT20 197/144				
TCDL	10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.16 15-16 >999 240				
BCLL	0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01 12 n/a n/a				
BCDL	10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.10 20-21 >999 240 Weight: 74 lb FT = 5%				

LUMBER-

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

WEDGE

Left: 2x4 SP or SPF No.3 or Stud, Right: 2x4 SP or SPF No.3 or Stud

REACTIONS. (size) 2=0-3-0, 12=0-3-0

Max Horz 2=-68(LC 11)

Max Uplift 2=-95(LC 10), 12=-95(LC 11) Max Grav 2=614(LC 1), 12=614(LC 1)

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

TOP CHORD 2-3=-783/64, 3-4=-736/80, 4-5=-713/96, 5-6=-691/111, 6-7=-685/131, 7-8=-685/130,

8-9=-691/111, 9-10=-713/96, 10-11=-736/80, 11-12=-783/64

2-22=35/634, 21-22=-35/634, 20-21=-35/634, 19-20=-35/634, 18-19=-35/634, BOT CHORD

17-18=-35/634, 16-17=-35/634, 15-16=-35/634, 14-15=-35/634, 12-14=-35/634

7-0-0

WEBS 7-18 = 55/384

NOTES-(9-11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf 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) 2, 12.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 11) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTel® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

