Job Truss Truss Type Qty 159063495 3553741 Α1 Common Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:00 2023 Page 1 ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 14-6-4 13-6-12 6-9-14 6-8-14 0-11-8 Scale = 1:29.6 4x5 = 13 7.00 12 0-6-10 5 1.5x4 II 3x8 || 5x6 = Plate Offsets (X,Y)--[3:0-3-8,Edge] ATES. GRIP 20 244/190

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 7.7/10.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.63 BC 0.56 WB 0.14	DEFL. in (loc) l/defl L/d Vert(LL) 0.14 5-11 >999 240 Vert(CT) -0.16 5-11 >999 180 Horz(CT) -0.02 1 n/a n/a	PLATES MT20
BCDL 15.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 53 lb
DCDL 15.0				

LUMBER-

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

WEBS WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

2x4 SP No.3

REACTIONS. (size) 3=0-3-0, 1=Mechanical

Max Horz 1=-192(LC 14)

Max Uplift 3=-284(LC 17), 1=-238(LC 16) Max Grav 3=670(LC 2), 1=608(LC 2)

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

TOP CHORD 1-2=-846/382, 2-3=-847/383 **BOT CHORD** 1-5=-150/617, 3-5=-150/617

WEBS 2-5=-18/376

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2) 3-0-0 to 6-9-14, Corner(3) 6-9-14 to 9-9-14, Exterior(2) 9-9-14 to 14-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 3 and 238 lb uplift at joint 1.



Structural wood sheathing directly applied or 4-7-0 oc purlins.

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

June 20,2023

FT = 20%

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ANSI/TP11 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 159063496 3553741 A1E Common Supported Gable 2 Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:00 2023 Page 1 ID:W?EDGH63vjJmDuwJaFyh99zEaAq-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 14-6-4 13-6-12 6-9-14 6-8-14 0-11-8 Scale = 1:29.3 4x5 = 15 7.00 12 5 3x8 || 13 12 10 9 11 3x8 II

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

	,g_j, [,], [,g_j							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 7.7/10.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.11 BC 0.07 WB 0.07	Vert(CT) -	in (loc) -0.00 7-9 -0.00 7-9 0.00 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 15.0	Code IRC2015/TPI2014	Matrix-S					Weight: 66 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

13-6-12

LUMBER-

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

OTHERS WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. All bearings 13-6-12.

Max Horz 1=-195(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 1 except 12=-124(LC 16), 13=-216(LC 16), 10=-127(LC 17),

9=-197(LC 17)

Max Grav All reactions 250 lb or less at joint(s) 7, 11, 12, 10, 1, 1 except 13=303(LC 30), 9=284(LC 31)

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

WEBS 2-13=-266/235, 6-9=-271/218

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 6-9-14, Corner(3) 6-9-14 to 9-9-14, Exterior(2) 9-9-14 to 14-6-4 zone; 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 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 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1 except (jt=lb) 12=124, 13=216, 10=127, 9=197.



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

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

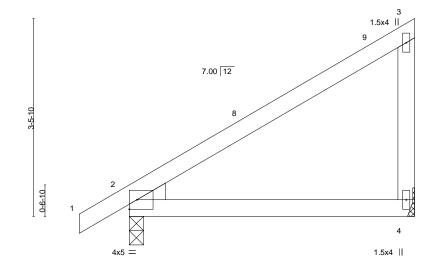


Job Truss Truss Type Qty 159063497 3553741 B1 Jack-Open Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:01 2023 Page 1

ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

5-0-0 5-0-0 0-10-8

Scale = 1:20.2



LOADING (ps	sf)
TCLL (roof)	20.0
Snow (Pf/Pg)	7.7/10.0
TCDL	10.0
BCLL	0.0 *
BCDL	15.0

SPACING-2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014

CSI. TC 0.44 ВС 0.39 WB 0.05 Matrix-MP

DEFL. I/defI L/d (loc) 4-7 0.07 >842 240 Vert(LL) Vert(CT) -0.09 4-7 >645 180 Horz(CT) 0.01 2 n/a n/a

PLATES MT20

GRIP 244/190

Weight: 23 lb FT = 20%

LUMBER-

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

WEDGE Left: 2x4 SP No.2 **BRACING-**

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=227(LC 16)

Max Uplift 2=-89(LC 16), 4=-173(LC 16) Max Grav 2=280(LC 30), 4=253(LC 30)

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

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 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 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.
- 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) 2 except (jt=lb) 4=173.





Job Truss Truss Type Qty 159063498 3553741 B₁G Jack-Open Girder 2 Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:02 2023 Page 1

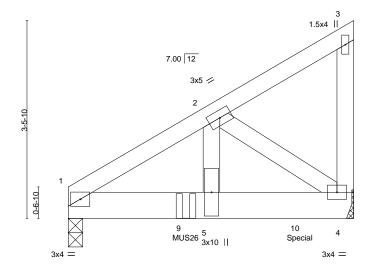
ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

5-0-0 2-6-2 2-5-14

Scale = 1:20.2



		2-0-2	2-0-17		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 7.7/10.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.09 BC 0.40	DEFL. in (loc) Vert(LL) -0.01 5 Vert(CT) -0.01 5	l/defl L/d >999 240 >999 180	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 15.0	Rep Stress Incr NO Code IRC2015/TPI2014	WB 0.30 Matrix-MP	Horz(CT) 0.00 4	n/a n/a	Weight: 30 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-6-2

5-0-0 2-5-1/

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 1=0-3-0, 4=Mechanical

Max Horz 1=197(LC 12)

Max Uplift 1=-90(LC 12), 4=-246(LC 12) Max Grav 1=603(LC 2), 4=877(LC 2)

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

TOP CHORD 1-2=-814/87

BOT CHORD 1-5=-215/685, 4-5=-215/685 WEBS 2-4=-832/261, 2-5=-57/721

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4 = 246
- 8) Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 520 lb down and 66 lb up at 2-0-12, and 523 lb down and 64 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-35, 4-6=-30 Concentrated Loads (lb)

Vert: 9=-438(B) 10=-440(B)



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Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining 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

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Job Truss Truss Type Qty 159063499 3553741 C1 COMMON Job Reference (optional) 8.630 s Feb 9 2023 MiTek Industries, Inc. Tue Jun 20 15:25:13 2023 Page 1 ID:W?EDGH63vjJmDuwJaFyh99zEaAg-HvYe9W23CN9DHjJJlvCgz5ilkkXoP98S?GkBmlz4LjK -0-10₇8 0-10-8 4-7-3 10-2-3 13-6-6 18-0-0 22-5-10 25-9-13 31-4-13 36-0-0 36-10-8 4-7-3 5-7-0 3-4-3 4-5-10 4-5-10 3-4-3 5-7-0 4-7-3 0-10-8 Scale = 1:69.5 5x6 = 6 7.00 12 3x4 / 3x4 < 3x6 // 3x6 <> 1.5x4 \ 8 1.5x4 // 3 33 17 25 26 15 14 27 24 16 13 28 29 12 3x4 = 3x4 = 3x6 =3x6 =3x4 = 3x4 = 6x8 =6x8 = 6-10-0 13-6-6 22-5-10 29-2-0 36-0-0

Plate Offsets (X,Y)--[2:0-1-12,0-1-1], [10:0-1-12,0-1-1] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1 15 TC 0.61 Vert(LL) -0.26 13-16 >999 240 MT20 244/190 Snow (Pf/Pg) 7.7/10.0 BC -0.54 13-16 Lumber DOL 1.15 0.87 Vert(CT) >794 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.81 Horz(CT) 0.10 10 n/a n/a **BCLL** 0.0 Code IRC2015/TPI2014 Matrix-MS Weight: 207 lb FT = 20%

8-11-3

BRACING-

TOP CHORD

BOT CHORD

WEBS

6-8-6

1 Row at midpt

6-10-0

Structural wood sheathing directly applied or 2-11-1 oc purlins.

6-16, 6-13

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

LUMBER-

BCDL

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

15.0

1-4,8-11: 2x4 SP No.2

6-10-0

BOT CHORD 2x4 SP No.1 *Except* 14-15: 2x4 SP No.2

WEBS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=489(LC 15)

Max Uplift 2=-676(LC 16), 10=-676(LC 17)

Max Grav 2=1783(LC 30), 10=1783(LC 31)

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

TOP CHORD 2-3=-3063/1044, 3-5=-2972/1034, 5-6=-2569/969, 6-7=-2569/969, 7-9=-2972/1034,

9-10=-3063/1045

BOT CHORD 2-17=-1087/2699, 16-17=-832/2373, 13-16=-342/1603, 12-13=-543/2154, 10-12=-758/2553

6-8-6

WFBS 3-17=-303/288, 5-17=-154/436, 5-16=-848/628, 6-16=-495/1113, 6-13=-495/1113,

7-13=-847/628, 7-12=-155/436, 9-12=-303/288

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2) 18-0-0 to 21-0-0, Interior(1) 21-0-0 to 36-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads
- 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 = 15.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 676 lb uplift at joint 2 and 676 lb uplift at joint 10.



June 20,2023

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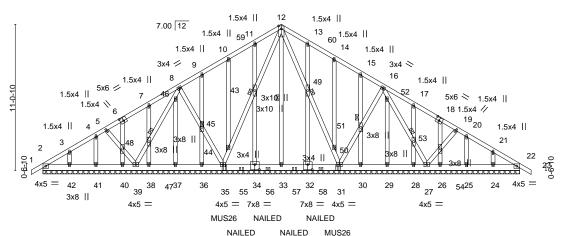


Job Truss Truss Type Qty 159063500 3553741 C1SE **GABLE** Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:05 2023 Page 1

ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0₋10₋8 0-10-8 22-4-12 25-8-5 36-0-0 4-9-12 5-5-15 3-3-9 4-4-12 4-4-12 3-3-9 5-5-15 4-9-12

> Scale = 1:87.0 5x10 ||



	1 7-0-2	13-7-4 ₁	22-4-12	2 1	28-11-14	36-0-0	1	
	7-0-2	6-7-2	8-9-8		6-7-2	7-0-2	1	
Plate Offsets (X,Y) [6:0-3-0,	0-3-0], [18:0-3-0,0-3-0], [32:0-4-	0,0-4-8], [34:0-4-	0,0-4-8]					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 7.7/10.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	TC BC	0.12	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 22 -0.00 22 0.01 22	l/defl L/d n/r 120 n/r 120 n/a n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 15.0	Code IRC2015/TPI2014	Ma	atrix-S	()			Weight: 363 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x6 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3 WEBS 1 Row at midpt 12-33 **OTHERS** 2x4 SP No.3 **JOINTS** 1 Brace at Jt(s): 43, 45, 47, 49, 51, 53

REACTIONS. All bearings 36-0-0.

Max Horz 2=485(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 27, 22, 33, 40, 41, 26, 25 except 35=-385(LC 12),

31=-386(LC 13), 34=-271(LC 12), 36=-131(LC 12), 38=-164(LC 12), 42=-175(LC 12), 32=-261(LC 13),

30=-129(LC 13), 28=-166(LC 13), 24=-169(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 39, 27, 22, 33, 36, 37, 38, 40, 41, 42, 30, 29, 28, 26,

25, 24 except 35=1150(LC 2), 31=1157(LC 2), 34=437(LC 30), 32=441(LC 31)

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

2-3=-308/254, 9-10=-153/260, 10-11=-127/309, 11-12=-97/359, 12-13=-88/341,

BOT CHORD 2-42=-262/344, 41-42=-262/344, 40-41=-262/344, 39-40=-262/344, 38-39=-223/387,

37-38=-223/387, 36-37=-223/387, 35-36=-223/387, 34-35=-193/441, 33-34=-193/441,

32-33=-193/438, 31-32=-193/438, 30-31=-138/332, 29-30=-138/332, 28-29=-138/332,

27-28=-138/332

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 27, 22, 33, 40, 41, 26, 25 except (jt=lb) 35=385, 31=386, 34=271, 36=131, 38=164, 42=175, 32=261, 30=129, 28=166, 24=169.





Job	Truss	Truss Type	Qty	Ply	
3553741	C1SE	GABLE	1	1	159063500
333741	0102	OABLE	ļ ·		Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:06 2023 Page 2 ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

13) Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 8-7-0 oc max. starting at 13-8-8 from the left end to 22-3-8 to connect truss(es) to front face of bottom chord.

- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 833 lb down and 155 lb up at 13-8-8, 169 lb down and 82 lb up at 15-0-0, 169 lb down and 82 lb up at 17-0-0, 169 lb down and 82 lb up at 17-0-0, 169 lb down and 82 lb up at 21-0-0, and 833 lb down and 155 lb up at 22-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-22=-30, 1-12=-35, 12-23=-35

Concentrated Loads (lb)

Vert: 35=-702(F) 31=-702(F) 55=-148(F) 56=-148(F) 57=-148(F) 58=-148(F)

818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty 159063501 3553741 C2 COMMON 9 Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:07 2023 Page 1

ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 25-9-13 22-5-10 31-4-13 36-0-0

-0-10₋8 0-10-8 0-10-8 5-7-0 3-4-3 4-5-10 4-5-10 3-4-3 5-7-0 4-7-3

5x6 = Scale = 1:74.6

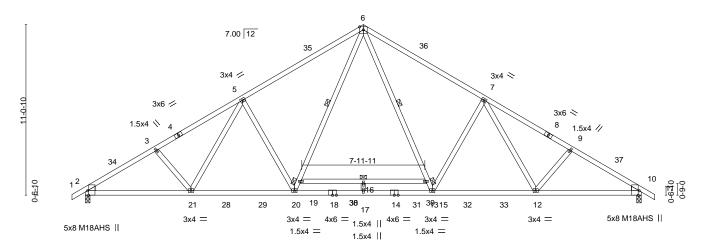
Structural wood sheathing directly applied or 2-11-9 oc purlins.

6-19, 6-15

Rigid ceiling directly applied or 8-4-1 oc bracing. Except:

6-0-0 oc bracing: 15-19

1 Row at midpt



6-10-0 13-6-6 18-0-0 22-5-10 29-2-0 36-0-0 6-10-0 Plate Offsets (X,Y)--[2:0-3-8,Edge], [10:0-3-8,Edge] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.58 Vert(LL) -0.29 16 >999 240 MT20 244/190 Snow (Pf/Pg) 7.7/10.0 Lumber DOL 1.15 ВС 0.73 Vert(CT) -0.64 16 >678 180 M18AHS 186/179 TCDL 10.0 Rep Stress Incr YES WB 0.79 Horz(CT) 0.09 10 n/a n/a **BCLL** 0.0 Code IRC2015/TPI2014 Matrix-MS Weight: 218 lb FT = 20%BCDL 15.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

1-4,8-11: 2x4 SP No.2

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

15-19: 2x4 SP No.2

WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. 2=0-3-8, 10=0-3-8 (size)

Max Horz 2=-489(LC 14)

Max Uplift 2=-626(LC 16), 10=-626(LC 17) Max Grav 2=1974(LC 30), 10=1974(LC 31)

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

TOP CHORD 2-3=-3287/953, 3-5=-3202/944, 5-6=-2821/868, 6-7=-2821/868, 7-9=-3202/944,

9-10=-3287/954

BOT CHORD 2-21=-1007/2995, 20-21=-748/2693, 17-20=-280/1950, 13-17=-280/1950,

12-13=-459/2365, 10-12=-677/2749

WEBS 3-21=-299/283, 5-21=-167/410, 5-20=-834/635, 19-20=-470/1167, 6-19=-440/1322,

6-15=-440/1323, 13-15=-469/1166, 7-13=-834/635, 7-12=-167/410, 9-12=-299/284

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2) 18-0-0 to 21-0-0, Interior(1) 21-0-0 to 36-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 15.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=626, 10=626.



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 MiTek® 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/TPH 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 159063502 3553741 СЗ Roof Special 8 Job Reference (optional) 8.630 s Feb 9 2023 MiTek Industries, Inc. Tue Jun 20 15:27:05 2023 Page 1 ID:W?EDGH63vjJmDuwJaFyh99zEaAg-?SK_gpOKqnGKjxtrJQDxWiLNNtlafmPxlht7iGz4Lha 6-0-5 6-0-5 11-6-4 18-0-0 6-5-12 22-9-0 4-9-0 29-3-11 36-0-0 36-10₇8 0-10-8 -0-10-8 0-10-8 Scale = 1:70.0 5x6 = 6 7.00 12 25 3x5 × 4x8 🖊 3x6 <> 3x6 / 8 3x5 <> 3x5 / 3 15 6x8 = 16 14 1.5x4 II 3x10 = 13 12 6x8 =3.00 12 5x8 = 1.5x4 || 6x8 = 11-8-0 11₁6₁4 0-1-12 0-1-12 Plate Offsets (X,Y)--[2:0-0-4,Edge], [10:0-1-12,0-1-1], [13:0-5-4,0-2-8] LOADING (psf) SPACING-CSI. DEFL. I/defl L/d **PLATES** GRIP 2-0-0 in (loc) TCLL (roof) 20.0 Plate Grip DOL TC 1 15 0.87 Vert(LL) 0.36 15 >999 240 MT20 244/190

ВС

WB

Matrix-MS

0.96

0.97

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.58 14-15

1 Row at midpt

10

0.32

>745

n/a

Structural wood sheathing directly applied.

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

180

n/a

6-14, 7-14, 5-14

LUMBER-

Snow (Pf/Pg)

TCDL

BCLL

BCDL

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

7.7/10.0

10.0

15.0

0.0

2x4 SP No.2 *Except* 2-15: 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.2 , Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-489(LC 14)

Max Uplift 2=-676(LC 16), 10=-676(LC 17) Max Grav 2=1672(LC 2), 10=1672(LC 2)

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

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

1.15

YES

TOP CHORD 2-3=-4729/1720, 3-5=-4216/1486, 5-6=-2311/854, 6-7=-2329/873, 7-9=-2501/885,

9-10=-3021/996

BOT CHORD 2-16=-1679/4067, 15-16=-1687/4097, 14-15=-1274/3507, 13-14=-464/1917, 12-13=-679/2492. 10-12=-679/2492

WFBS 5-15=-720/2127, 6-14=-607/1924, 7-14=-567/513, 9-13=-774/456, 9-12=0/332,

5-14=-2506/1147, 3-15=-589/407

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2) 18-0-0 to 21-0-0, Interior(1) 21-0-0 to 36-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads
- 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.
- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 676 lb uplift at joint 2 and 676 lb uplift at ioint 10.



Weight: 206 lb

FT = 20%

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
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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/TPI1 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 159063503 3553741 C4SE GABLE Job Reference (optional) 8.630 s Feb 9 2023 MiTek Industries, Inc. Tue Jun 20 15:27:14 2023 Page 1 ID:W?EDGH63vjJmDuwJaFyh99zEaAg-EBMOZuVziYP3IJ3ZKpt2NcD2vVwwGwPGqbY5WEz4LhR -0-10₇8 0-10-8 6-0-5 11-6-4 18-0-0 29-3-11 36-0-0 36-10₋8 6-0-5 5-5-15 6-5-12 11-3-11 6-8-5 0-10-8 Scale = 1:73.5 5x6 = 12 7.00 12 13 14 3x5 ≥ 61 60 10 3x5 / 15 3x6 < 46 50 3x6 / 17 18 3x5 <> 19 3x5 / 6 ²⁰ 21 49 53 22 3x8 52 23 39 3x8 38 37 Bx6 II 40 36 41 5x8 = 35 42 34 4x8 = 33 32 31 30 29 28 27 26 3.00 12 5x8 = 4x5 = 3x5 = 3x8 \\ 6-0-5 11-4-8 11-6-4 18-0-0 22-9-0 29-3-11 36-0-0 0-1-12 5-11-5 6-5-12 4-9-0 6-6-11 6-8-5 Plate Offsets (X,Y)--[2:0-3-5,Edge], [2:0-0-9,0-2-4], [6:0-2-0,Edge], [32:0-6-0,0-3-0] LOADING (psf) SPACING-CSI. DEFL. in (loc) L/d **PLATES** GRIP 2-0-0 I/defl TCLL (roof) 20.0 Plate Grip DOI 1 15 TC 0.37 Vert(LL) 0 14 36-37 >999 240 MT20 244/190 Snow (Pf/Pg) 7.7/10.0 Lumber DOL BC 0.49 Vert(CT) -0.16 36-37 >999 180 1.15 **TCDL** 10.0 Rep Stress Incr YES WB 0.60 Horz(CT) 0.09 32 n/a n/a **BCLL** 0.0 Code IRC2015/TPI2014 Matrix-MS Weight: 301 lb FT = 20%**BCDL** 15.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins. 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 5-1-9 oc bracing. 2x4 SP No.3 *Except* WEBS 1 Row at midpt 12-35, 15-32 9-39: 2x4 SP No.2 JOINTS 1 Brace at Jt(s): 44, 45, 48, 49, 52 **OTHERS** 2x4 SP No.3

BOT CHORD WEBS

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. All bearings 13-3-0 except (jt=length) 2=0-2-8.

Max Horz 2=-489(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 30, 28, 24 except 32=-972(LC 16),

24=-171(LC 14), 29=-437(LC 30), 31=-169(LC 17), 27=-142(LC 17), 26=-165(LC

Max Grav All reactions 250 lb or less at joint(s) 24, 30, 28, 27 except 32=2361(LC

30), 32=1612(LC 1), 29=264(LC 16), 31=281(LC 31), 26=259(LC 31), 2=800(LC 2)

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

2-3=-1760/646, 3-4=-1783/700, 4-5=-1798/764, 5-7=-932/300, 7-8=-953/371, TOP CHORD

8-9=-948/400, 9-10=-203/287, 10-11=-159/331, 11-12=-134/372, 12-13=-141/349,

13-14=-113/279, 15-16=-286/1098, 16-17=-318/1103, 17-19=-386/1097, 19-20=-408/1039,

20-21=-114/495, 21-22=-123/440, 22-23=-180/431, 23-24=-239/512

BOT CHORD 2-43=-789/1713, 42-43=-807/1739, 41-42=-825/1767, 40-41=-790/1727, 39-40=-816/1760, 38-39=-298/987, 37-38=-307/1000, 36-37=-302/983, 35-36=-295/953, 34-35=-1122/564,

33-34=-1145/571, 32-33=-1212/591, 31-32=-450/235, 30-31=-450/235, 29-30=-450/235,

28-29=-450/235, 27-28=-450/235, 26-27=-450/235, 24-26=-450/235

WFBS 5-41=-119/268, 12-35=-408/72, 35-49=-482/1409, 49-50=-487/1444, 15-50=-459/1342, 9-46=-1234/670, 45-46=-1277/678, 44-45=-1302/699, 35-44=-1334/717, 15-32=-1485/562,

32-51=-781/375 51-52=-742/354 52-53=-781/374 20-53=-758/362 20-29=-250/519

 $5-48=-906/539,\ 47-48=-910/538,\ 39-47=-915/544,\ 9-39=-394/942,\ 31-52=-312/223$

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-0-0, Interior(1) 2-0-0 to 18-0-0, Exterior(2) 18-0-0 to 21-0-0, Interior(1) 21-0-0 to 36-10-8 zone; 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE



minim

June 20,2023

Design valid for use only with MiTek® 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Edenton, NC 27932

ORTH

Job	Truss	Truss Type	Qty	Ply		
3553741	C4SE	GABLE	1	1		159063503
				1	Job Reference (optional)	

8.630 s Feb 9 2023 MiTek Industries, Inc. Tue Jun 20 15:27:14 2023 Page 2 ID:W?EDGH63vjJmDuwJaFyh99zEaAg-EBMOZuVziYP3IJ3ZKpt2NcD2vVwwGwPGqbY5WEz4LhR

NOTES-

7) All plates are 1.5x4 MT20 unless otherwise indicated.

- 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 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.
- 11) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 28 except (jt=lb) 32=972, 24=171, 29=437, 31=169, 27=142, 26=165, 2=332, 24=171.

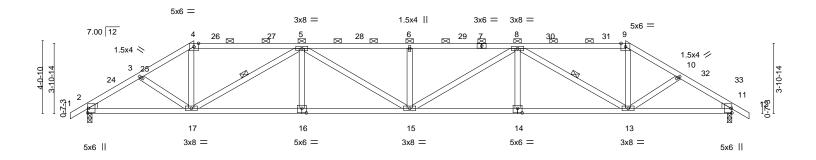
818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty 159063504 3553741 C5 Hip Job Reference (optional)

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:12 2023 Page 1

ID:W?EDGH63vjJmDuwJaFyh99zEaAq-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-11-0 2-11-3 23-11-0 32-10-3 11-11-0 17-11-0 29-11-0 35-10-0 6-0-0 6-0-0 6-0-0 6-0-0 2-11-3 2-11-13

Scale: 3/16"=1



5-11-0	11-11-0	17-11-0	23-11-0	29-11-0	35-10-0
Plate Offsets (X.Y) [14:0-3-0.	.0-3-0], [16:0-3-0,0-3-0]	6-0-0	6-0-0	6-0-0	5-11-0
LOADING (psf)	,5 6 6 , 110.0 6 6,6 6 6				
TCLL (roof) 20.0 Snow (Pf/Pg) 12.7/10.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.67 BC 0.99 WB 0.53	DEFL. in Vert(LL) 0.42 Vert(CT) -0.61 Horz(CT) 0.16	(loc) I/defl L/d 15 >999 240 15-16 >710 180 11 n/a n/a	PLATES GRIP MT20 244/190
BCDL 15.0	Code IRC2015/TPI2014	Matrix-MS			Weight: 189 lb FT = 20%

TOP CHORD

BOT CHORD

WEBS

BRACING-LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 *Except*

14-16: 2x4 SP No.2

2x4 SP No.3 WEBS

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (size) 2=0-3-0. 11=0-3-0

Max Horz 2=-175(LC 14)

Max Uplift 2=-623(LC 13), 11=-623(LC 12)

Max Grav 2=1670(LC 2), 11=1670(LC 2)

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

TOP CHORD 2-3=-2562/1108, 3-4=-2530/1102, 4-5=-2166/1002, 5-6=-4047/1819, 6-8=-4047/1819,

8-9=-2166/1002, 9-10=-2530/1102, 10-11=-2562/1108

BOT CHORD 2-17=-958/2113, 16-17=-1665/3614, 15-16=-1665/3614, 14-15=-1567/3614, 13-14=-1567/3614, 11-13=-840/2113

WEBS 4-17=-307/936, 5-17=-1718/922, 5-16=0/312, 5-15=-305/542, 6-15=-348/330,

8-15=-306/542, 8-14=0/312, 8-13=-1718/922, 9-13=-306/936

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-8 to 2-0-8, Interior(1) 2-0-8 to 5-11-0, Exterior(2) 5-11-0 to 10-1-15, Interior(1) 10-1-15 to 29-11-0, Exterior(2) 29-11-0 to 34-1-15, Interior(1) 34-1-15 to 36-9-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=12.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 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) except (jt=lb)
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-11-4 oc purlins,

5-17. 8-13

2-0-0 oc purlins (2-5-1 max.): 4-9.

1 Row at midpt

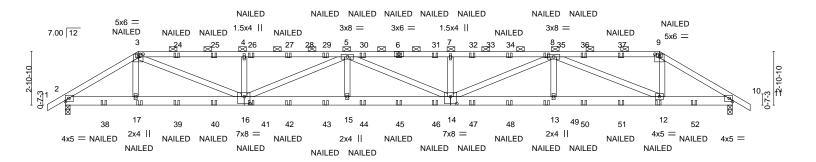
Rigid ceiling directly applied or 2-2-0 oc bracing.



Job Truss Truss Type Qty Ply 159063505 HIP GIRDER 3553741 C6G 2 | **L** | Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:16 2023 Page 1

ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 31-11-0 26-2-12 35-10-0 5-6-8 5-6-8 5-8-4 3-11-0

Scale = 1:61.9



3-11-0	9-7-4	15-1-12	20-8-4		26-2-12	_	31-11-0	35-10-0	
3-11-0	5-8-4	5-6-8	5-6-8	ı	5-6-8	1	5-8-4	3-11-0	<u>'</u>
Plate Offsets (X,Y) [3:0-3-0,	,0-1-12], [9:0-3-0,0-1-1:	2], [14:0-4-0,0-4-8], [16:0	-3-12,0-4-8]						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 12.7/10.0 TCDL 10.0 BCLL 0.0 * BCDL 15.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inci Code IRC2015	1.15 1.15 r NO	CSI. TC 0.80 BC 0.85 WB 0.73 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.48 14-15 -0.69 14-15 0.10 10	I/defI >892 >621 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 409 lb	GRIP 244/190 FT = 20%

LUMBER-**BRACING-**

2x4 SP No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD 2x6 SP No.2 2-0-0 oc purlins (3-10-14 max.): 3-9.

2x4 SP No.3 **BOT CHORD WEBS** Rigid ceiling directly applied or 8-8-13 oc bracing.

REACTIONS. (size) 2=0-3-0, 10=0-3-0 Max Horz 2=-127(LC 10)

Max Uplift 2=-892(LC 9), 10=-892(LC 8) Max Grav 2=2339(LC 2), 10=2339(LC 2)

5-8-4

5-6-8

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

TOP CHORD 2-3=-3805/1516, 3-4=-6404/2725, 4-5=-6404/2725, 5-7=-7908/3353, 7-8=-7908/3353,

8-9=-3109/1299, 9-10=-3778/1503

BOT CHORD 2-17=-1341/3224, 16-17=-1347/3214, 15-16=-3389/7982, 14-15=-3389/7982,

13-14=-2675/6459, 12-13=-2675/6459, 10-12=-1221/3201

WEBS 3-17=0/266, 3-16=-1583/3511, 4-16=-470/440, 5-16=-1744/782, 5-15=0/397,

7-14=-421/391, 8-14=-716/1603, 8-13=0/411, 8-12=-3670/1657, 9-12=-502/1576

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=12.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 8) Provide adequate drainage to prevent water ponding.
- 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 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=892, 10=892.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

വരുന്ന് Neb 55 pinglicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines





Edenton, NC 27932

🗥 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 MiTek@ 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/TPI1 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 159063505 3553741 C6G HIP GIRDER 2 | **Z** | Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:16 2023 Page 2

ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 58 lb down and 67 lb up at 3-11-0, 55 lb down and 65 lb up at 5-11-12, 55 lb down and 65 lb up at 7-11-12, 55 lb down and 65 lb up at 7-11-12, 55 lb down and 65 lb up at 13-11-12, 55 l and 65 lb up at 15-11-12, 55 lb down and 65 lb up at 17-11-0, 55 lb down and 65 lb up at 21-10-4, 55 l 23-10-4, 55 lb down and 65 lb up at 25-10-4, 55 lb down and 65 lb up at 27-10-4, and 55 lb down and 65 lb up at 29-10-4, and 58 lb down and 67 lb up at 31-11-0 on top chord, and 153 lb down and 47 lb up at 2-0-12, 32 lb down at 3-11-12, 32 lb down at 5-11-12, 32 lb down at 7-11-12, 32 lb down at 9-11-12, 32 lb down at 11-11-12, 32 lb down at 13-11-12, 32 lb down at 15-11-12, 32 lb down at 17-11-0, 32 lb down at 19-10-4, 32 lb down at 21-10-4, 32 lb down at 23-10-4, 32 lb down at 25-10-4, 32 lb down at 27-10-4, 32 lb down at 29-10-4, and 32 lb down at 31-10-4, and 153 lb down and 47 lb up at 33-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-35, 3-9=-45, 9-11=-35, 18-21=-30

Concentrated Loads (lb)

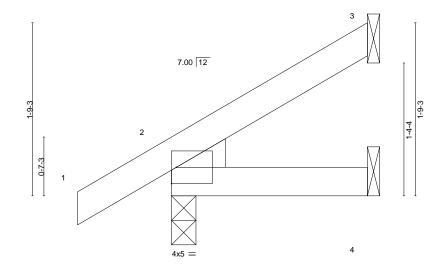
Vert: 6=-26(B) 9=-30(B) 17=-28(B) 3=-30(B) 12=-28(B) 24=-26(B) 25=-26(B) 26=-26(B) 27=-26(B) 29=-26(B) 30=-26(B) 31=-26(B) 32=-26(B) 34=-26(B) 35=-26(B) 35= 36=-26(B) 37=-26(B) 38=-153(B) 39=-28(B) 40=-28(B) 41=-28(B) 42=-28(B) 43=-28(B) 45=-28(B) 45=-28(B) 45=-28(B) 47=-28(B) 48=-28(B) 49=-28(B) 50=-28(B) 51=-28(B) 52=-153(B)

Job Truss Truss Type Qty 159063506 3553741 J1 Jack-Open 2 Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:17 2023 Page 1

ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-0-0 0-11-8 2-0-0

Scale = 1:11.8



2-0-0

LOADING (ps	sf)	
TCLL (roof)	20.0	
Snow (Pf/Pg)	7.7/10.0	
TCDL	10.0	
BCLL	0.0 *	
BCDI	15.0	

SPACING-2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014

CSI. TC 0.09 ВС 0.08 WB 0.00 Matrix-MP

DEFL. (loc) I/defI Vert(LL) 0.00 >999 Vert(CT) -0.00 >999 Horz(CT) 0.00 3 n/a n/a

L/d 240 180

PLATES GRIP 244/190 MT20

Weight: 9 lb FT = 20%

LUMBER-

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

WEDGE Left: 2x4 SP No.2 **BRACING-**

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=114(LC 16)

Max Uplift 3=-60(LC 16), 2=-66(LC 16), 4=-9(LC 16) Max Grav 3=58(LC 30), 2=161(LC 30), 4=42(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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 12.0 psf or 1.00 times flat roof load of 7.7 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 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.
- 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) 3, 2, 4.



June 20,2023

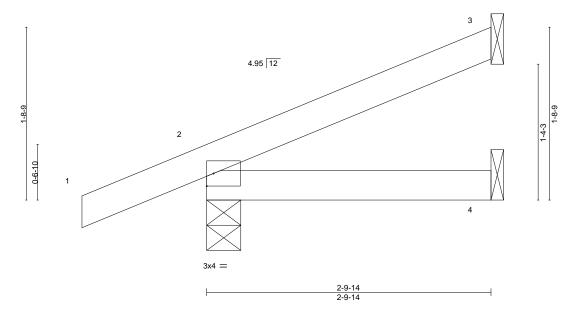




ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:11.4



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 7.7/10.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.26 BC 0.08 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 4-7 >999 240 Vert(CT) -0.01 4-7 >999 180 Horz(CT) 0.00 3 n/a n/a	PLATES GRIP MT20 244/190
BCDL 15.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 11 lb FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-9-14 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-1, 4=Mechanical Max Horz 2=109(LC 16) Max Uplift 3=-77(LC 16), 2=-115(LC 12)

Max Grav 3=68(LC 2), 2=215(LC 2), 4=61(LC 7)

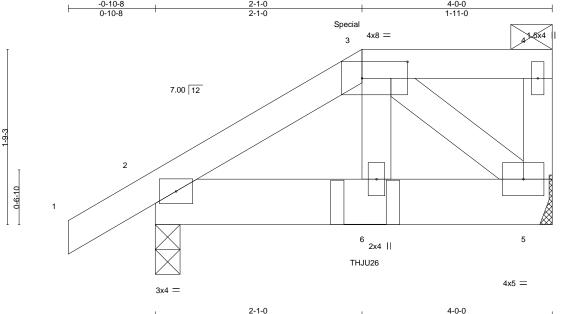
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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 12.0 psf or 1.00 times flat roof load of 7.7 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 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.
- 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) 3 except (jt=lb) 2=115.



June 20,2023





2-1-0

Plate Offsets (X,Y) [3:0-5-8,0	-2-0]								
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 12.7/10.0 TCDL 10.0 BCLL 0.0 * BCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.07 BC 0.04 WB 0.04 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 0.00	(loc) 9 9 5	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS REACTIONS.

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

2x6 SP No.2 2x4 SP No.3

(size) 2=0-3-0, 5=Mechanical Max Horz 2=116(LC 12)

Max Uplift 2=-112(LC 12), 5=-86(LC 9) Max Grav 2=235(LC 2), 5=171(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=12.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 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) 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 except (jt=lb) 2=112.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie THJU26 (SGL & SGL SHORT LC 1-PLY) or equivalent at 2-1-6 from the left end to connect truss(es) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 67 lb up at 2-1-0 on top chord, and 6 lb down and 7 lb up at 2-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



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

except end verticals, and 2-0-0 oc purlins: 3-4.

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

Scale = 1:11.6

Continued on page 2

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 MiTek® 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/TPI1 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 159063508 2 J3G 3553741 Half Hip Girder Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:18 2023 Page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
Vert: 1-3=-35, 3-4=-45, 5-7=-30
Concentrated Loads (lb) Vert: 6=-4(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty 159063509 3553741 J4 Jack-Open 15 Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jun 20 14:11:19 2023 Page 1

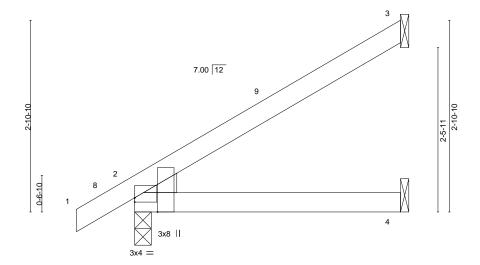
ID:W?EDGH63vjJmDuwJaFyh99zEaAg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Structural wood sheathing directly applied or 4-0-0 oc purlins.

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

-0-10-8 4-0-0 0-10-8 4-0-0

Scale = 1:17.3



4-0-0 4-0-0

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 7.7/10.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.28 BC 0.26 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.03 4-7 -0.04 4-7 0.01 3	l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 15.0	Code IRC2015/TPI2014	Matrix-MP	Horz(CT)	0.01 3	n/a	n/a	Weight: 15 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.2 REACTIONS.

(size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=190(LC 16)

Max Uplift 3=-127(LC 16), 2=-80(LC 16), 4=-13(LC 16) Max Grav 3=128(LC 30), 2=239(LC 30), 4=89(LC 7)

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

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 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 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.
- 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) 2, 4 except (jt=lb) 3=127.



June 20,2023

