

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0320-1371 Avery

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E14236994 thru E14237022

My license renewal date for the state of North Carolina is December 31, 2020.

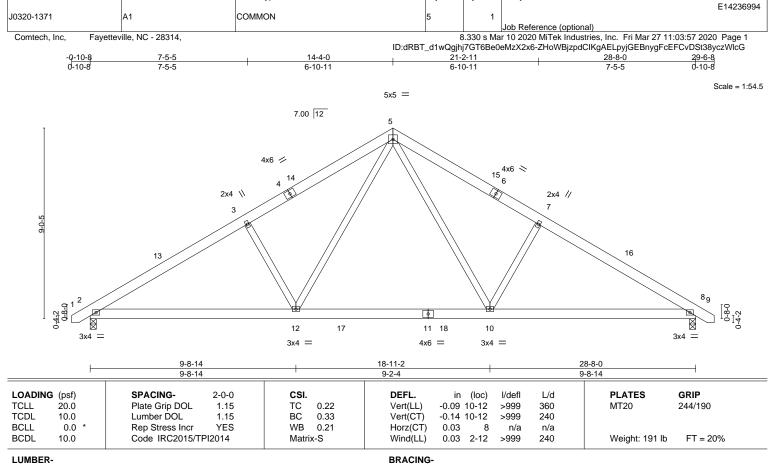
North Carolina COA: C-0844



March 27,2020

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



TOP CHORD

BOT CHORD

Qty

Avery

LUMBER-

Job

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **WEBS**

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

Max Horz 2=-210(LC 10)

Truss

Truss Type

Max Uplift 2=-76(LC 12), 8=-76(LC 13) Max Grav 2=1187(LC 1), 8=1187(LC 1)

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

TOP CHORD 2-3=-1761/366, 3-5=-1590/420, 5-7=-1590/420, 7-8=-1761/366

BOT CHORD 2-12=-195/1565, 10-12=-14/1018, 8-10=-202/1419

WEBS 5-10=-132/741, 7-10=-449/262, 5-12=-132/741, 3-12=-449/262

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 14-4-0, Exterior(2) 14-4-0 to 18-8-13, Interior(1) 18-8-13 to 29-4-9 zone; 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) 2, 8.



Structural wood sheathing directly applied or 5-8-3 oc purlins.

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

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

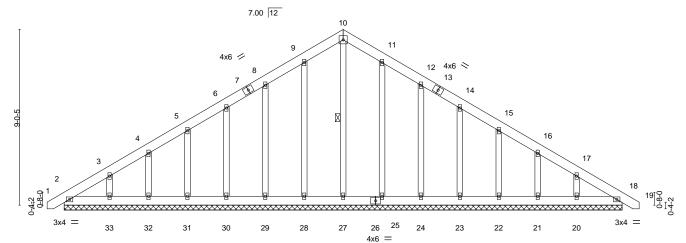


Job Truss Type Truss Qty Avery E14236995 J0320-1371 A1GE GABLE Job Reference (optional) 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:03:59 2020 Page 1 Comtech. Inc. Fayetteville, NC - 28314,

5x5 =

ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-VfvGcO_38pY2wTOjxNlkJcsL33Mbj8mWvBYE1VzWlcE 29-6-8 0-10-8 -0-10-8 0-10-8 28-8-0 14-4-0 14-4-0

Scale = 1:59.2



	<u> </u>		28-8-0		l .
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.04	DEFL. in (loc) Vert(LL) 0.00 18	l/defl L/d n/r 120	PLATES GRIP MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 18	n/r 120	W1120 244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.00 18	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 234 lb FT = 20%

28-8-0

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **OTHERS**

BRACING-

TOP CHORD **BOT CHORD** WEBS

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

1 Row at midpt

REACTIONS. All bearings 28-8-0.

Max Horz 2=-263(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21 except

33=-108(LC 12), 20=-104(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 18, 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20

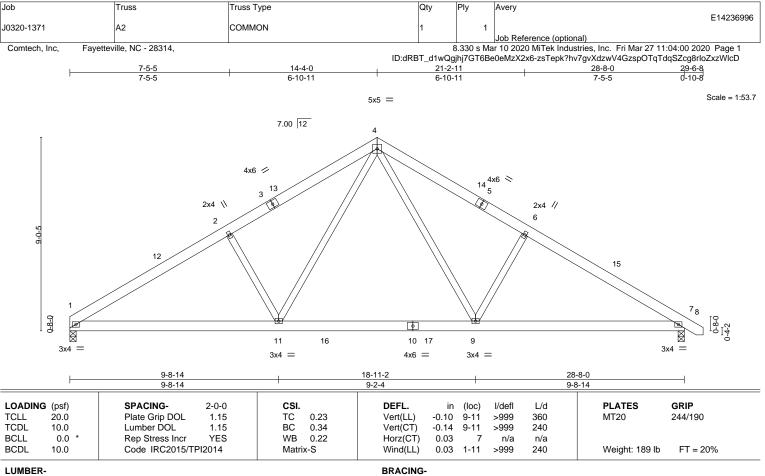
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-9 to 3-8-4, Exterior(2) 3-8-4 to 14-4-0, Corner(3) 14-4-0 to 18-8-13, Exterior(2) 18-8-13 to 29-4-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21 except (jt=lb) 33=108, 20=104.



March 27,2020





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **WEBS**

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=-209(LC 8)

Max Uplift 1=-64(LC 12), 7=-76(LC 13) Max Grav 1=1134(LC 1), 7=1187(LC 1)

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

TOP CHORD 1-2=-1745/376, 2-4=-1594/430, 4-6=-1591/421, 6-7=-1762/367

BOT CHORD 1-11=-206/1570, 9-11=-17/1019, 7-9=-205/1420

WEBS 4-9=-133/741, 6-9=-449/262, 4-11=-133/745, 2-11=-450/266

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 14-4-0, Exterior(2) 14-4-0 to 18-8-13, Interior(1) 18-8-13 to 29-4-9 zone; 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) 1, 7.



Structural wood sheathing directly applied or 5-7-10 oc purlins.

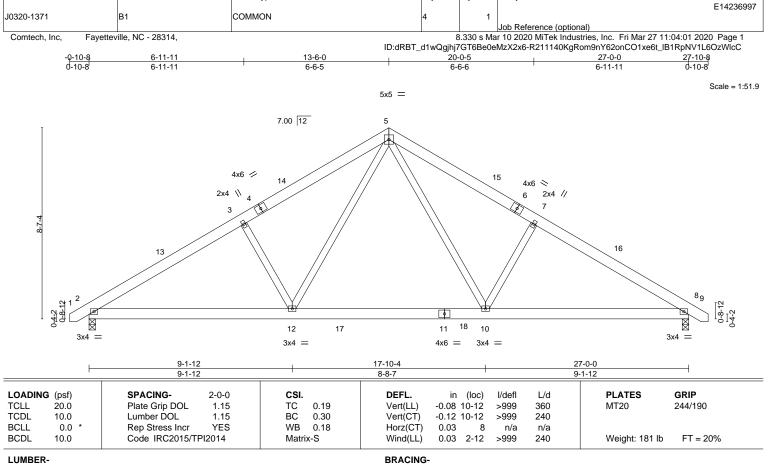
Rigid ceiling directly applied or 10-0-0 oc bracing.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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TOP CHORD

BOT CHORD

Qty

Avery

LUMBER-

Job

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **WEBS**

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

Max Horz 2=199(LC 11)

Truss

Truss Type

Max Uplift 2=-72(LC 12), 8=-72(LC 13)

Max Grav 2=1120(LC 1), 8=1120(LC 1)

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

TOP CHORD 2-3=-1631/344, 3-5=-1472/396, 5-7=-1472/396, 7-8=-1631/344

BOT CHORD 2-12=-184/1444, 10-12=-13/946, 8-10=-188/1311

WEBS 5-10=-123/679, 7-10=-409/246, 5-12=-123/679, 3-12=-409/246

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 13-6-0, Exterior(2) 13-6-0 to 17-10-13, Interior(1) 17-10-13 to 27-8-9 zone; 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) 2, 8.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 5-11-5 oc purlins.

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

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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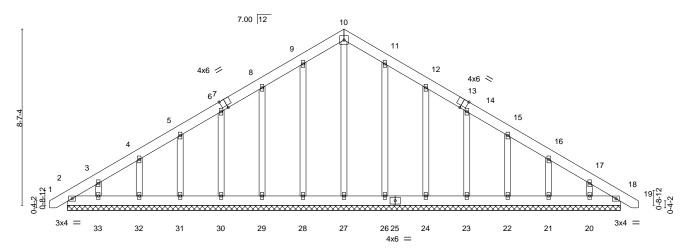




5x5 =

ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-vEbPEQ1yRkwdnx7lcVJRxEUsLGOMwU7yc9nueqzWlcB 27-10-8 28-9-0 0-10-8 14-4-8 13-6-0 13-6-0

Scale = 1:56.3



-0-10-8 27-10-8 28-9-0 0-10-8 0-10-8 27-0-0 Plata Offcate (V V) [7:0.2.0 Edgo] [12:0.2.0 Edgo]

Flate Oil	SetS (A, I)	[1.0-3-0,Euge], [13.0-3-0	,Lugej										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	18	n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	18	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	18	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 218 lb	FT = 20%	

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **OTHERS**

BRACING-

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

REACTIONS. All bearings 27-0-0.

(lb) - Max Horz 2=248(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 28, 29, 30, 31, 32, 26, 24, 23, 22, 21, 20 except

33=-101(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 18, 27, 28, 29, 30, 31, 32, 33, 26, 24, 23, 22, 21, 20

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-9 to 3-6-0, Exterior(2) 3-6-0 to 13-6-0, Corner(3) 13-6-0 to 17-10-13, Exterior(2) 17-10-13 to 27-8-9 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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, 28, 29, 30, 31, 32, 26, 24, 23, 22, 21, 20 except (jt=lb) 33=101.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





Job Truss Truss Type Qty Avery E14236999 J0320-1371 B2 COMMON Job Reference (optional) Comtech. Inc. Fayetteville, NC - 28314,

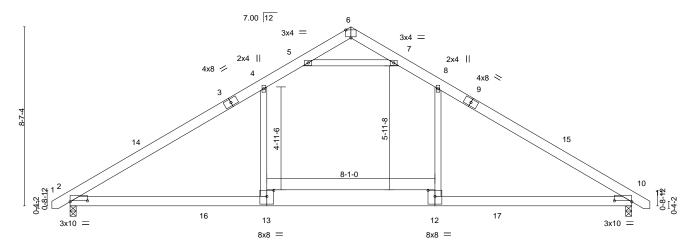
4x6 =

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:03 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-NR9nSm1aC23UO5hUACqgTS0pxgbdfmU6qoWSAGzWlcA -0-10-8 0-10-8 13-6-0 27-0-0 27-10-8 0-10-8 9-3-12 17-8-4 9-3-12 4-2-4 4-2-4 9-3-12

Scale = 1:55.4

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

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



17-8-4 27-0-0 9-3-12 8-4-8 9-3-12 [2:0-10-0,0-0-9], [6:0-3-0,Edge], [10:0-10-0,0-0-9], [12:0-4-0,0-3-8], [13:0-4-0,0-3-8] Plate Offsets (X,Y)-LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.94 Vert(LL) -0.26 10-12 >999 360 244/190 MT20 BC 0.59 -0.38 10-12 240 TCDL 10.0 Lumber DOL 1.15 Vert(CT) >843 **BCLL** 0.0 Rep Stress Incr NO WB 0.85 Horz(CT) 0.04 10 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.21 2-13 >999 240 Weight: 177 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 *Except* **BOT CHORD**

12-13: 2x10 SP No.1

WEBS 2x4 SP No.2

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

Max Horz 2=199(LC 11)

Max Uplift 2=-98(LC 12), 10=-98(LC 13)

Max Grav 2=1428(LC 19), 10=1428(LC 20)

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

TOP CHORD 2-4=-2110/415, 4-5=-1549/437, 5-6=-196/724, 6-7=-196/724, 7-8=-1550/437,

8-10=-2112/415

BOT CHORD 2-13=-195/1699, 12-13=-194/1711, 10-12=-195/1696

4-13=0/668, 8-12=0/669, 5-7=-2523/718 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 13-6-0, Exterior(2) 13-6-0 to 17-8-4, Interior(1) 17-8-4 to 27-8-9 zone; 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 30.0psf 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) 2, 10.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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

Vert: 1-6=-60, 6-11=-60, 2-13=-20, 12-13=-80, 10-12=-20



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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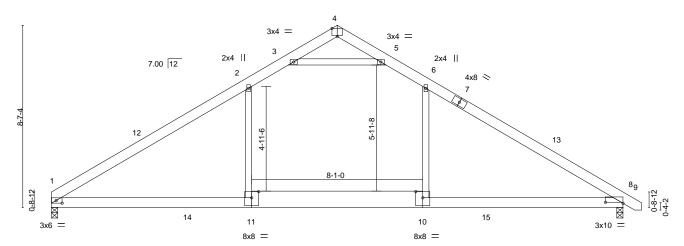


Job Truss Truss Type Qty Avery E14237000 J0320-1371 B2A COMMON Job Reference (optional)

4x6 =

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:04 2020 Page 1 Fayetteville, NC - 28314, $ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-rdj9f62CzLBL0EGhkwLv0fZz34xhOCaF3SG?iizWlc9$ 27-10-8 0-10-8 13-6-0 17-8-4 9-3-12 27-0-0 9-3-12 4-2-4 4-2-4 9-3-12

Scale = 1:54.4



17-8-4 27-0-0 9-3-12 8-4-8 9-3-12 Plate Offsets (X,Y)--[1:0-3-5,0-1-8], [4:0-3-0,Edge], [8:0-10-0,0-0-9], [10:0-4-0,0-3-8], [11:0-4-0,0-3-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** GRIP in (loc) I/defI I/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.98 Vert(LL) -0.27 1-11 >999 360 244/190 MT20 BC 240 TCDL 10.0 Lumber DOL 1.15 0.60 Vert(CT) -0.40 1-11 >808 **BCLL** 0.0 Rep Stress Incr NO WB 0.86 Horz(CT) 0.04 8 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.21 1-11 >999

240

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

Structural wood sheathing directly applied or 3-9-8 oc purlins.

Weight: 175 lb

FT = 20%

LUMBER-

BCDL

Comtech. Inc.

TOP CHORD 2x6 SP No.1 2x6 SP No.1 *Except* **BOT CHORD**

10-11: 2x10 SP No.1

WEBS 2x4 SP No.2

10.0

REACTIONS.

(size) 1=0-3-8, 8=0-3-8 Max Horz 1=-197(LC 8)

Max Uplift 1=-86(LC 12), 8=-98(LC 13) Max Grav 1=1380(LC 19), 8=1429(LC 20)

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

Code IRC2015/TPI2014

TOP CHORD 1-2=-2108/412, 2-3=-1555/443, 3-4=-202/744, 4-5=-211/749, 5-6=-1550/436,

6-8=-2116/416

BOT CHORD 1-11=-201/1704, 10-11=-200/1715, 8-10=-201/1700

2-11=0/654, 6-10=0/679, 3-5=-2553/740 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-6-0, Exterior(2) 13-6-0 to 17-8-4, Interior(1) 17-8-4 to 27-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 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 30.0psf 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) 1, 8.

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-9=-60, 1-11=-20, 10-11=-80, 8-10=-20



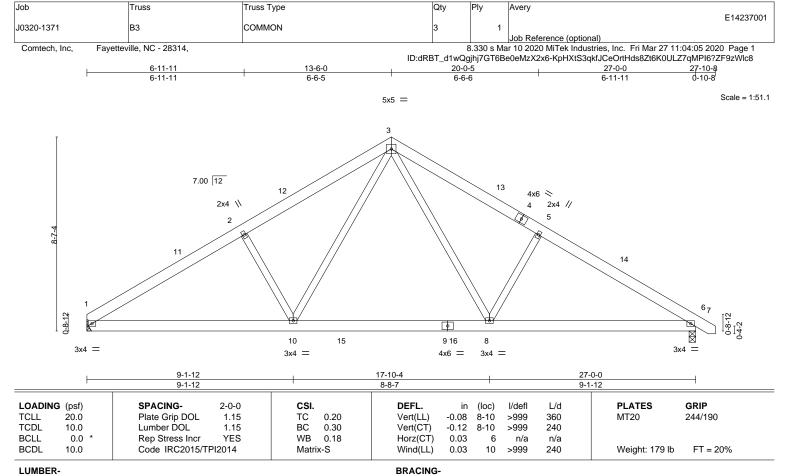
March 27,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 in-jury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **WEBS**

REACTIONS. (size) 1=Mechanical, 6=0-3-8

Max Horz 1=-197(LC 8)

Max Uplift 1=-60(LC 12), 6=-72(LC 13) Max Grav 1=1069(LC 1), 6=1122(LC 1)

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

TOP CHORD 1-2=-1630/355, 2-3=-1481/407, 3-5=-1476/397, 5-6=-1635/345

BOT CHORD 1-10=-194/1457, 8-10=-17/950, 6-8=-192/1315 **WEBS**

3-8=-124/679, 5-8=-409/246, 3-10=-126/689, 2-10=-416/251

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 13-6-0, Exterior(2) 13-6-0 to 17-10-13, Interior(1) 17-10-13 to 27-8-9 zone; 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6.



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

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

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Type Truss Qty Avery E14237002 J0320-1371 B3GE GABLE Job Reference (optional) Comtech. Inc. Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:06 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-o0qw4o4SVzR3FYQ3rLNN54eVouhrsFnYWml6nbzWlc7 27-10-8 0-10-8 13-6-0 20-0-5 27-0-0 6-11-11 6-11-11 6-6-5 6-6-6 6-11-11

> Scale = 1:51.4 5x12 ||

> > Structural wood sheathing directly applied or 5-10-15 oc purlins.

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

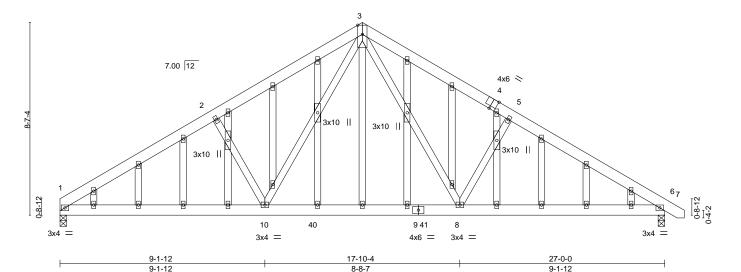


Plate Offsets (X,Y)	[4:0-3-0,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.08 8-10 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.12 8-10 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.03 6 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 10 >999 240	Weight: 252 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **WEBS OTHERS** 2x4 SP No.2

REACTIONS.

(size) 1=0-3-8, 6=0-3-8 Max Horz 1=-247(LC 8)

Max Uplift 1=-212(LC 12), 6=-237(LC 13) Max Grav 1=1068(LC 1), 6=1121(LC 1)

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

TOP CHORD 1-2=-1623/451, 2-3=-1472/506, 3-5=-1473/506, 5-6=-1628/451

BOT CHORD 1-10=-336/1479, 8-10=-81/962, 6-8=-270/1312

WEBS 3-8=-206/696, 5-8=-409/325, 3-10=-207/700, 2-10=-410/330

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-6-9, Exterior(2) 4-6-9 to 13-6-0, Corner(3) 13-6-0 to 17-10-13, Exterior(2) 17-10-13 to 27-8-9 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=212, 6=237.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Avery E14237003 J0320-1371 C1 ATTIC Job Reference (optional)

Comtech. Inc. Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MTek Industries, Inc. Fri Mar 27 11:04:07 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-GCOIH854GGZwti?GP2uceIBeXHyGbjxhlQUfJ1zWlc6

-0₁11-0 4-0-12 10-3-8 13-1-7 20-7-0 21-6-0 0-11-0 7-5-9 16-6-4 0-11-0 4-0-12 3-4-13 2-9-15 2-9-15 3-4-13 4-0-12

> Scale = 1:80.6 6x8 =

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

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

except end verticals.

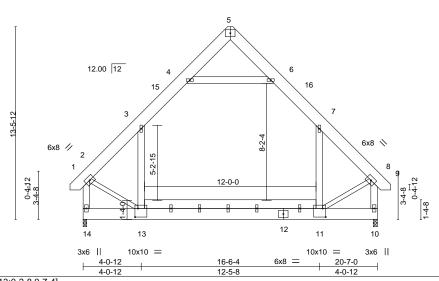


Plate Offsets (X,Y)	[11:0-2-8,0-7-4], [13:0-2-8,0-7-4]

TCDL 10.0 Lumber DOL 1.15 BC 0.61	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.13 11-13 >999 360 MT20 244/190 Vert(CT) -0.21 11-13 >999 240
BCLL 0.0 * Rep Stress Incr YES WB 0.24 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S	4. Horz(CT) 0.01 10 n/a n/a Wind(LL) 0.04 11-13 >999 240 Weight: 306 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x10 SP No.1

BOT CHORD 2x10 SP No.1 *Except*

11-13: 2x8 SP No.1

WEBS 2x6 SP No.1 *Except*

2-13,8-11: 2x4 SP No.2

REACTIONS. (size) 14=0-3-0. 10=0-3-8

Max Horz 14=-350(LC 10)

Max Grav 14=1472(LC 21), 10=1472(LC 20)

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

TOP CHORD 2-3=-1413/0, 3-4=-937/161, 6-7=-937/161, 7-8=-1412/0, 2-14=-1753/0, 8-10=-1754/0

BOT CHORD 13-14=-346/341, 11-13=0/904

WEBS 4-6=-958/181, 3-13=-6/668, 7-11=-6/668, 2-13=0/1077, 8-11=0/1079

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-13 to 4-0-4, Interior(1) 4-0-4 to 10-3-8, Exterior(2) 10-3-8 to 14-8-5, Interior(1) 14-8-5 to 21-1-13 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x6 MT20 unless otherwise indicated.
- 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.
- 6) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 8) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Avery E14237004 J0320-1371 C1GE ATTIC Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:08 2020 Page 1 $ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-kOygVT5j1ahnVsaSzmPrAVkpHhIVKAAr_4EDrUzWlc5$

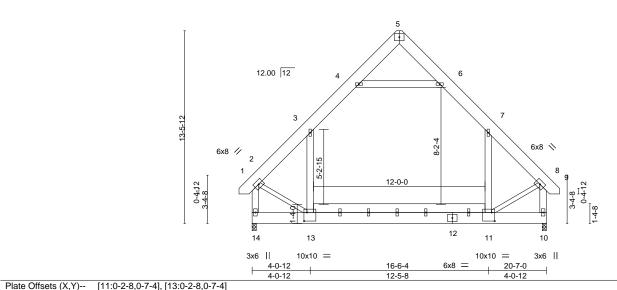
10-3-8 16-6-4 20-7-0 21-6-0 0-11-0 -0₁11-0 4-0-12 7-5-9 13-1-7 0-11-0 4-0-12 3-4-13 2-9-15 2-9-15 3-4-13 4-0-12

> Scale = 1:80.6 6x8 =

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

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

except end verticals.



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.13 11-13 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.21 11-13 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.01 10 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 11-13 >999 240	Weight: 306 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x10 SP No.1

2x10 SP No.1 *Except* **BOT CHORD**

11-13: 2x8 SP No.1

WEBS 2x6 SP No.1 *Except*

2-13,8-11: 2x4 SP No.2

REACTIONS. (size) 14=0-3-8, 10=0-3-8

Max Horz 14=-438(LC 10)

Max Grav 14=1472(LC 21), 10=1472(LC 20)

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

TOP CHORD 2-3=-1427/19, 3-4=-945/190, 6-7=-945/190, 7-8=-1427/19, 2-14=-1771/0, 8-10=-1772/0

BOT CHORD 13-14=-433/427, 11-13=0/935

WEBS 4-6=-958/240, 3-13=-6/668, 7-11=-6/668, 2-13=0/1113, 8-11=0/1116

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-13 to 4-0-4, Exterior(2) 4-0-4 to 10-3-8, Corner(3) 10-3-8 to 14-8-5, Exterior(2) 14-8-5 to 21-1-13 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x6 MT20 unless otherwise indicated.
- 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.
- 6) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 8) Attic room checked for L/360 deflection.





Edenton, NC 27932

Job Truss Truss Type Avery E14237005 J0320-1371 C2 ATTIC Job Reference (optional)

Comtech. Inc. Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:09 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-CbW2ip6Loupd609eWTx4jjG_15ek3dQ_Dk_mOwzWlc4

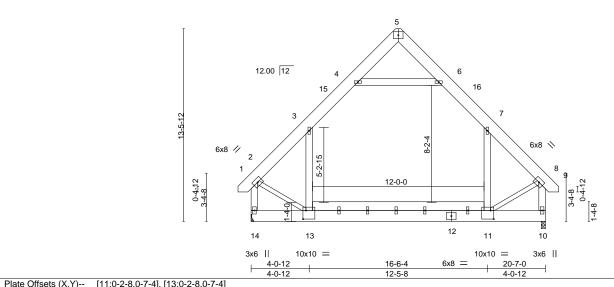
-0₁11-0 4-0-12 7-5-9 10-3-8 13-1-7 16-6-4 20-7-0 21-6-0 0-11-0 4-0-12 3-4-13 2-9-15 2-9-15 3-4-13 4-0-12

> Scale = 1:80.6 6x8 =

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

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

except end verticals.



Tidle Cheete (71,17)	[
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.13 11-13 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.21 11-13 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.01 10 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 11-13 >999 240	Weight: 306 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x10 SP No.1

BOT CHORD 2x10 SP No.1 *Except*

11-13: 2x8 SP No.1

WEBS 2x6 SP No.1 *Except*

2-13,8-11: 2x4 SP No.2

REACTIONS. (size) 14=Mechanical, 10=0-3-8

Max Horz 14=-350(LC 10)

Max Grav 14=1472(LC 21), 10=1472(LC 20)

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

TOP CHORD 2-3=-1413/0, 3-4=-937/161, 6-7=-937/161, 7-8=-1412/0, 2-14=-1753/0, 8-10=-1754/0

BOT CHORD 13-14=-346/341, 11-13=0/904

WEBS 4-6=-958/181, 3-13=-6/668, 7-11=-6/668, 2-13=0/1077, 8-11=0/1079

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-13 to 4-0-4, Interior(1) 4-0-4 to 10-3-8, Exterior(2) 10-3-8 to 14-8-5, Interior(1) 14-8-5 to 21-1-13 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x6 MT20 unless otherwise indicated.
- 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.
- 6) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 8) Refer to girder(s) for truss to truss connections.
- 9) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Avery E14237006 J0320-1371 C2A ATTIC Job Reference (optional)

Comtech. Inc. Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:10 2020 Page 1 $ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-gn4Qw97zZBxUk9kr4ASJGwp9jV_yo4f8ROjKwMzWlc3$

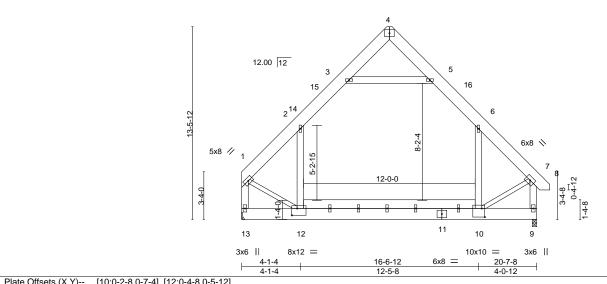
7-6-1 10-4-0 13-1-15 20-7-8 4-1-4 16-6-12 3-4-13 2-9-15 2-9-15 3-4-13 4-0-12

> Scale = 1:80.6 6x8 =

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

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

except end verticals.



1 late Off	3013 (71, 1)	[10.0 2 0,0 1 4], [12.0 4 0,0 3 12				
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 0.33	Vert(LL) -0.14 10-12	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.21 10-12	>999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.01 9	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 10-12	>999 240	Weight: 303 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x10 SP No.1

BOT CHORD 2x10 SP No.1 *Except*

10-12: 2x8 SP No.1

WEBS 2x6 SP No.1 *Except*

1-12,7-10: 2x4 SP No.2

REACTIONS. (size) 13=Mechanical, 9=0-3-8

Max Horz 13=319(LC 11)

Max Grav 13=1440(LC 21), 9=1472(LC 20)

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

TOP CHORD 1-2=-1424/0, 2-3=-941/161, 5-6=-936/150, 6-7=-1412/0, 1-13=-1712/0, 7-9=-1754/0

BOT CHORD 12-13=-326/324, 10-12=0/904

WEBS 3-5=-965/183, 2-12=-6/668, 6-10=-4/671, 1-12=0/1061, 7-10=0/1078

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-4 to 4-7-0, Interior(1) 4-7-0 to 10-4-0, Exterior(2) 10-4-0 to 14-8-13, Interior(1) 14-8-13 to 21-2-5 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x6 MT20 unless otherwise indicated.
- 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.
- 6) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).2-12, 6-10
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 8) Refer to girder(s) for truss to truss connections.
- 9) Attic room checked for L/360 deflection.



March 27,2020

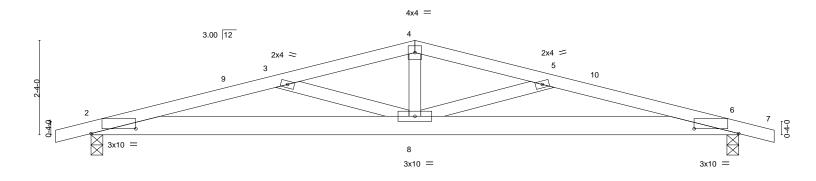


Job Truss Type Truss Qty Avery E14237007 J0320-1371 D1 COMMON Job Reference (optional) 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:11 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-8zep7V8bKV3LMJJ1euzYo8MMYvNiXZzHg2TtSozWlc2 Comtech. Inc. Fayetteville, NC - 28314, 16-10-8 -0-10-8 4-10-4 8-0-0 16-0-0

3-1-12

11-1-12

0-10-8 Scale = 1:28.5



	8-0-0		1			16-0-0		
	8-0-0		1			8-0-0		l
Plate Offsets (X,Y)	[2:1-1-4,0-1-7], [6:1-1-4,0-1-7]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.06	· 8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.13	8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.02	. 6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.0	8	>999	240	Weight: 77 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

0-10-8

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-27(LC 9)

Max Uplift 2=-86(LC 8), 6=-86(LC 9) Max Grav 2=690(LC 1), 6=690(LC 1)

4-10-4

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

TOP CHORD 2-3=-1800/547, 3-4=-1359/318, 4-5=-1359/320, 5-6=-1800/543

BOT CHORD 2-8=-486/1715, 6-8=-491/1715

WEBS 3-8=-459/286, 4-8=-46/459, 5-8=-459/284

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE \ 7-10; \ Vult=130 mph \ (3-second \ gust) \ \ Vasd=103 mph; \ TCDL=6.0 psf; \ BCDL=6.0 psf; \ h=15 ft; \ Cat. \ II; \ Exp \ C; \ Enclosed; \ H=100 mph; \$ MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-10-8 zone; 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.



Structural wood sheathing directly applied or 4-5-11 oc purlins.

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



000	11433	ITU33 Type	Gty	ı ıy	Avery				
					E14237008				
J0320-1371	D1GE	GABLE	1	1					
					Job Reference (optional)				
Comtech, Inc, Fayette	/ille, NC - 28314,		8	.330 s Ma	r 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:12 2020 Page 1				
		ID:dRBT	ID:dRBT_d1wQaihi7GT6Be0eMzX2x6-cACBLr8D4pBCzTtDCbUnLLuYhloKG1ZRviCQ_FzWlc1						

Plv

Δνωη

16-0-0

8-0-0

16-10-8 0-10-8

Scale = 1:28.5

4x4 = 3.00 12 6 7 3 16 15 3x4 =3x4 = 14 13 12 11 10

			16-0-0 16-0-0						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.11 BC 0.04 WB 0.02 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 9 9 8	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 72 lb	GRIP 244/190 FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x6 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.2 **OTHERS**

REACTIONS. All bearings 16-0-0.

(lb) - Max Horz 2=-45(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 11 except 14=314(LC 1), 10=314(LC 1)

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

NOTES-

loh

-0-10-8

0-10-8

Trues

Trues Type

8-0-0

8-0-0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-10-8 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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, 8, 12, 13, 14, 11. 10.





Job Truss Truss Type Qty Ply Avery E14237009 J0320-1371 E1 COMMON GIRDER 2 Job Reference (optional)

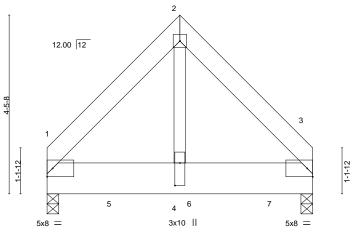
Comtech, Inc. Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:13 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-5MIZYB9rr6J3bdSPIJ?0tZRixi6M?Rea7My_XhzWlc0

6-7-8 3-3-12 3-3-12 3-3-12

> Scale = 1:28.7 4x4 =

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

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



3-3-12 6-7-8 3-3-12 3 - 3 - 12Plata Offcate (V V) [4:0 6 12 0 1 9]

riale Oi	15615 (7, 1)	[4.0-0-12,0-1-0]			
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.01 4 >999 360 MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.01 4 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.23	Horz(CT) 0.00 3 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 4 >999 240 Weight: 109 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x10 SP No.1 **WEBS** 2x4 SP No.2

(size) 1=0-3-8, 3=0-3-8 REACTIONS.

Max Horz 1=-90(LC 4)

Max Uplift 1=-107(LC 9), 3=-132(LC 8) Max Grav 1=1641(LC 1), 3=2016(LC 1)

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

TOP CHORD 1-2=-1391/112, 2-3=-1391/112

BOT CHORD 1-4=-58/860, 3-4=-58/860

WEBS 2-4=-84/1851

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
 - Bottom chords connected as follows: 2x10 2 rows staggered at 0-7-0 oc.
 - Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=107, 3=132,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1049 lb down and 80 lb up at 1-8-4, and 1049 lb down and 80 lb up at 3-8-4, and 1051 lb down and 78 lb up at 5-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-3=-60, 1-3=-20

Concentrated Loads (lb)

Vert: 5=-1049(B) 6=-1049(B) 7=-1051(B)



March 27,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLION TO BE SEED OF THIS AND INCLUDED WILLION TO BE SEED OF THIS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLION TO BE SEED OF THE SEED OF fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Avery E14237010 J0320-1371 E1GE COMMON SUPPORTED GAB Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:14 2020 Page 1 $ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-ZYJxIXATcQRwDn1cJ0WFQm_vS6UIjxvjM0hX37zWlc?$

0-10-8

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

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

-0-10-8 0-10-8 8-4-8 4-2-4 7-6-0 3-3-12 3-3-12

4x4 =

Scale = 1:30.2

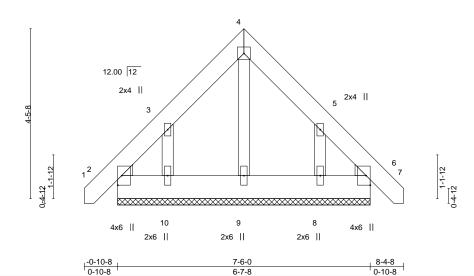


Plate Off	Plate Offsets (X,Y) [2:0-0-10,0-0-10], [2:0-1-4,0-3-9], [6:0-0-10,0-0-10], [6:0-1-4,0-3-9]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	` 6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-P						Weight: 59 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

6-7-8

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x8 SP No.1 2x4 SP No.2 **OTHERS**

WEDGE

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

REACTIONS. All bearings 6-7-8.

(lb) - Max Horz 2=122(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-169(LC 12), 8=-166(LC 13)

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=169 8=166
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 27,2020



Edenton, NC 27932

Job Truss Truss Type Qty Avery E14237011 J0320-1371 G1 COMMON Job Reference (optional)

Comtech. Inc. Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:15 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-1ktJztB6NkZnqxcotk1Uz_Wz?WkNSM7tbgR5bazWlc_

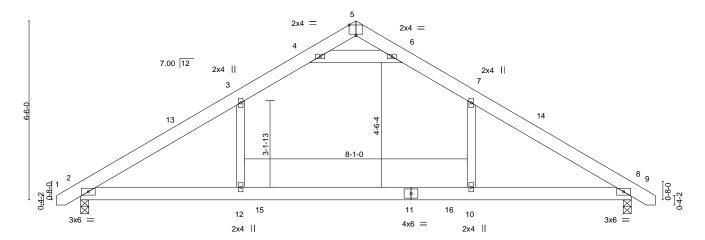
20-10-8 0-10-8 10-0-0 14-2-4 20-0-0 5-9-12 5-9-12 4-2-4 4-2-4

4x6 =

Scale = 1:41.8

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

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



5-9-12 10-0-0 14-2-4 20-0-0 5-9-12 4-2-4 Plate Offsets (X,Y)--[5:0-3-0,Edge]

LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d Plate Grip DOL TCLL 20.0 1.15 TC 0.49 Vert(LL) -0.15 10-12 >999 360 244/190 MT20 BC 0.40 -0.24 10-12 240 TCDL 10.0 Lumber DOL 1.15 Vert(CT) >993 **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.02 8 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.07 12 >999 240 Weight: 124 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 *Except* **WEBS**

4-6: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=-150(LC 10)

> Max Uplift 2=-56(LC 12), 8=-56(LC 13) Max Grav 2=941(LC 19), 8=941(LC 20)

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

TOP CHORD 2-3=-1347/207, 3-4=-993/268, 4-5=-91/592, 5-6=-91/593, 6-7=-993/268, 7-8=-1347/207

BOT CHORD 2-12=-69/1051, 10-12=-69/1051, 8-10=-69/1051 **WEBS** 3-12=0/422, 7-10=0/422, 4-6=-1671/401

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 10-0-0, Exterior(2) 10-0-0 to 14-2-4, Interior(1) 14-2-4 to 20-8-9 zone; 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 30.0psf 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) 2, 8.



March 27,2020

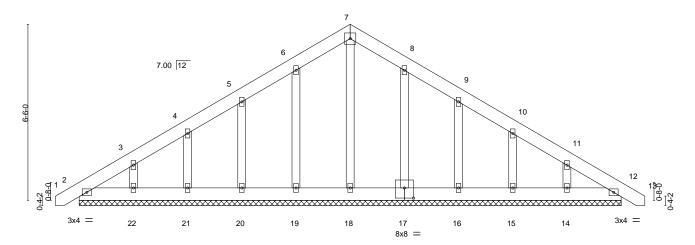


Job Truss Truss Type Qty Avery E14237012 J0320-1371 G1GE COMMON SUPPORTED GAB Job Reference (optional) 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:16 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-VxRhACCk81heS4B_RRZjVB3FywAgBqu0qKAe60zWlbz Comtech. Inc. Fayetteville, NC - 28314,

5x5 =

10-0-0 20-0-0 20-10-8 10-0-0 0-10-8

Scale = 1:42.5



20-0-0 20-0-0

Plate Offsets (X,	Plate Offsets (X,Y) [17:0-4-0,0-4-8]											
LOADING (psf)	SPACING- 2-0-0	CSI. DEF	()	,		GRIP						
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03 Vert	t(LL) 0.00 12	2 n/r 120	MT20	244/190						
TCDL 10.0	Lumber DOL 1.15	BC 0.01 Vert	t(CT) 0.00 12	2 n/r 120								
BCLL 0.0	Rep Stress Incr YES	WB 0.07 Horz	z(CT) 0.00 12	2 n/a n/a								
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 146 lb	FT = 20%						

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 2x4 SP No.2 **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 20-0-0.

(lb) - Max Horz 2=-187(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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

LUMBER-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-9 to 3-8-4, Exterior(2) 3-8-4 to 10-0-0, Corner(3) 10-0-0 to 14-4-13, Exterior(2) 14-4-13 to 20-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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, 19, 20, 21, 22, 17 16 15 14
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



Edenton, NC 27932

Job Truss Truss Type Qty Avery E14237013 J0320-1371 G2 COMMON 2 Job Reference (optional) Comtech. Inc. Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:17 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-z7?4OYCMvLpV4EmB_94y2PcKPJNtw7XA2_wBfSzWlby 20-10-8 0-10-8 -0-10-8 0-10-8 10-0-0 20-0-0 5-4-13 14-7-3 5-4-13 4-7-3 Scale = 1:42.5 6x8 4 7.00 12 2x4 \\ 2x4 // 3 0<u>-4-2</u> 0-8-0 11 12 13 10 14 15 9 8 16 17 4x8 10x10 = 6x8 = 10x10 = 6-11-4 13-0-12 20-0-0 6-11-4 6-11-4 6-1-9 [8:0-5-0,0-6-4], [10:0-5-0,0-6-4] SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d 20.0 Plate Grip DOL TC 0.43 Vert(LL) -0.09 2-10 360 244/190 1.15 >999 MT20 BC 0.59 10.0 Lumber DOL 1.15 Vert(CT) -0.18 2-10 >999 240

Plate Offsets (X,Y)--LOADING (psf) TCLL TCDL **BCLL** 0.0 Rep Stress Incr NO WB 0.75 Horz(CT) 0.04 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) -0.01 2-10 >999 240 Weight: 298 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x8 SP 2400F 2.0E **WEBS** 2x4 SP No.2

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

Max Horz 2=150(LC 26) Max Grav 2=6792(LC 2), 6=5706(LC 2)

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

TOP CHORD 2-3=-9841/0, 3-4=-9709/0, 4-5=-9300/0, 5-6=-9437/0

BOT CHORD 2-10=0/8361, 8-10=0/5808, 6-8=0/7985

WEBS 3-10=-206/264, 4-10=0/5575, 4-8=0/4817, 5-8=-187/298

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.

- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1413 lb down at 2-0-12, 1374 lb down at 4-0-12, 1374 lb down at 6-0-12, 1374 lb down at 8-0-12, 1374 lb down at 10-0-12, 1374 lb down at 12-0-12, and 1374 lb down at 14-0-12, and 1374 lb down at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-6=-20, 1-4=-60, 4-7=-60

Concentrated Loads (lb)

Vert: 9=-1102(F) 11=-1148(B) 12=-1102(F) 13=-1102(F) 14=-1102(F) 15=-1102(F) 16=-1102(F) 17=-1102(F)



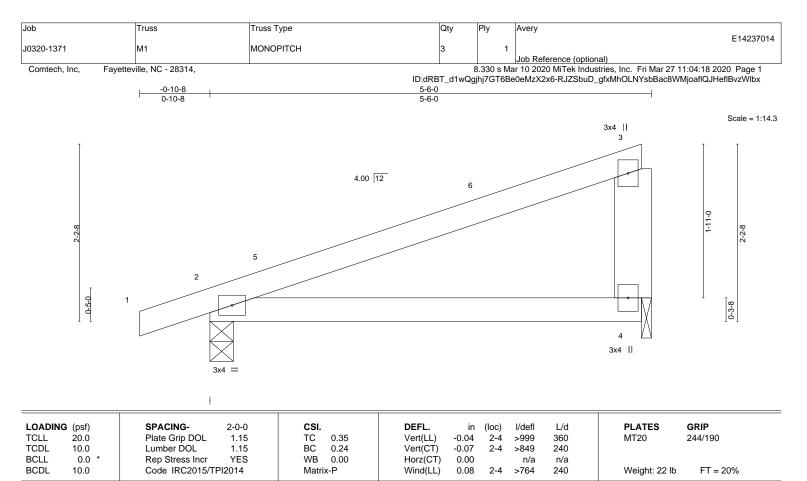
Structural wood sheathing directly applied or 4-11-6 oc purlins.

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

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 Design Valid for use only with release controlled in the controlle





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SP No.1 **WEBS**

REACTIONS. (size) 2=0-3-8, 4=0-1-8

Max Horz 2=70(LC 8) Max Uplift 2=-109(LC 8), 4=-86(LC 8)

Max Grav 2=272(LC 1), 4=199(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-3-4 zone; porch 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb)



Structural wood sheathing directly applied or 5-6-0 oc purlins,

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

except end verticals.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type		Qty	Ply	Avery		Г	14237015
J0320-1371	M1GE	GABLE		1	1				14237015
Camtach Inc. Fav	retteville, NC - 28314,				0 220 a M		rence (optional)	s, Inc. Fri Mar 27 11:04:18 2020	Dogo 1
Comtech, Inc, Fay	etteville, NC - 28314,			ID:dRBT_d1w				s, Inc. Fri Mar 27 11:04:18 2020 xMhOLNYsbBac8XmjnKflzJHeflBv	
-0-10-8 0-10-8	+	8-4					10-4-0	11-10-0 1-6-0	
' 0-10-8	,	8-4	-0				2-0-0		
,0.550, 5		15	4.00 12	5	16	6	7.00 12	7 5x8 =	ale = 1:22.7
	3x4 =	14	13	12 4x6 =					
Plate Offsets (X,Y)		5-9-8 5-9-8			8-4-0 2-6-8	-	10-4-0 2-0-0	11-10-0	
i iaic Oliseis (A, I)	[0.0 0 10,0-1-12], [12.0-0-0	,0 1 12]					T		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI2	1.15 BC WB	0.26 0.26 0.03	DEFL. Vert(LL) 0.0 Vert(CT) 0.0 Horz(CT) -0.0	0 1	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES GRIP MT20 244/190 Weight: 57 lb FT = 20%	6

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 WEBS

2x4 SP No.2 **OTHERS**

REACTIONS. All bearings 5-9-8. (lb) - Max Horz 2=183(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14 except 12=-353(LC 12), 13=-247(LC 1) Max Grav All reactions 250 lb or less at joint(s) 2, 13 except 12=1047(LC 1), 14=250(LC 1)

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

TOP CHORD 2-3=-406/582, 3-4=-375/576, 4-5=-356/591, 5-6=-310/553, 6-7=-279/569, 7-8=-244/534 **BOT CHORD** 2-14=-529/239, 13-14=-529/239, 12-13=-529/239, 11-12=-844/376, 10-11=-699/321,

9-10=-649/297, 8-9=-530/238

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14 except (jt=lb) 12=353, 13=247.
- 8) Non Standard bearing condition. Review required.



Structural wood sheathing directly applied or 9-11-1 oc purlins.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute. 218 N. Lee Street. Suite 312. Alexandria. VA 22314. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Type Truss Qty Avery E14237016 J0320-1371 VC1 VALLEY Job Reference (optional) 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:19 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-vW7qpEEcRy4DJYwZ6Z6Q7qhkD7AXOCMTWIPIjLzWlbw Comtech. Inc. Fayetteville, NC - 28314, 6-8-15 3-4-83-4-8 Scale = 1:23.2 4x4 = 2 12.00 12 3 3x4 \\ 3x4 // 2x4 ||

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	` -	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a			
DCDI	40.0	Codo IDC004E/TI	010044	NA GAN	. D	` ′					\\/a;ah4, 07 lb	FT 200/	

6-8-15 6-8-15

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=6-8-15, 3=6-8-15, 4=6-8-15

Max Horz 1=-72(LC 8)

Max Uplift 1=-26(LC 13), 3=-26(LC 13)

Max Grav 1=147(LC 1), 3=147(LC 1), 4=189(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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



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available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Type Truss Qty Avery E14237017 J0320-1371 VC2 VALLEY Job Reference (optional) 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:20 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-NihC0aFECGC4xiVmgHdfg1ExVXXQ7focky8rGnzWlbv Comtech. Inc. Fayetteville, NC - 28314, 4-4-15 2-2-8 2-2-8 2-2-7 ₂4x4 = Scale = 1:13.8 12.00 12 3x4 // 2x4 || 3x4 \ 4-4-15 4-4-15 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.05 n/a n/a 999 MT20 TCDL 10.0 Lumber DOL BC 0.03 Vert(CT) 999 1.15 n/a n/a

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

n/a

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

Structural wood sheathing directly applied or 4-4-15 oc purlins.

Weight: 17 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

REACTIONS.

(size) 1=4-4-15, 3=4-4-15, 4=4-4-15

Rep Stress Incr

Code IRC2015/TPI2014

Max Horz 1=44(LC 11)

Max Uplift 1=-16(LC 13), 3=-16(LC 13)

Max Grav 1=90(LC 1), 3=90(LC 1), 4=116(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60

WB

Matrix-P

0.01

- 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.

YES

- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Type Truss Qty Avery E14237018 J0320-1371 VC3 VALLEY Job Reference (optional) 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:20 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-NihC0aFECGC4xiVmgHdfg1ExDXXc7fwcky8rGnzWlbv Comtech. Inc. Fayetteville, NC - 28314, 1-0-8 2-0-15 1-0-8 Scale: 1.5"=1" 3x4 = 2 12.00 12 3

3x4 //

Matrix-P

3x4 📏

2-0-15 Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d Plate Grip DOL 1.15 TC 0.01 Vert(LL) 999 244/190 n/a n/a MT20 BC 999 Lumber DOL 1.15 0.01 Vert(CT) n/a n/a 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a

2-0-15

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

20.0

10.0

10.0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-15 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 6 lb

FT = 20%

REACTIONS. (size) 1=2-0-15, 3=2-0-15

Max Horz 1=-16(LC 8)

Max Uplift 1=-2(LC 12), 3=-2(LC 12) Max Grav 1=55(LC 1), 3=55(LC 1)

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

Code IRC2015/TPI2014

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





Job Truss Type Truss Qty Avery E14237019 J0320-1371 VE1 VALLEY Job Reference (optional) Comtech. Inc. Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:21 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-suEaEwFszaKwZs3yD_8uCFm4Wxsws6plzcuPoDzWlbu 6-11-13 3-5-15 3-5-15 Scale: 1/2"=1 4x4 = 2 12.00 12 3 3x4 // 3x4 📏 2x4 || 6-11-13 6-11-13

LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.16 BC 0.07	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.02 Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 28 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=6-11-13, 3=6-11-13, 4=6-11-13

Max Horz 1=-75(LC 8)

Max Uplift 1=-27(LC 13), 3=-27(LC 13)

Max Grav 1=153(LC 1), 3=153(LC 1), 4=196(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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



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available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Type Truss Qty Avery E14237020 J0320-1371 VE2 VALLEY Job Reference (optional) 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:22 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-K5ozRGGVktSnA?e8nif7lSJHuKDrbZGvCGdyKgzWlbt Comtech. Inc. Fayetteville, NC - 28314, 4-7-13 2-3-15 2-3-15 2-3-14 4x4 = Scale = 1:14 4 12.00 12 4 3x4 // 2x4 II 3x4 \ 4-7-13 4-7-13 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL TC Vert(LL) 999 244/190 1.15 0.06 n/a n/a MT20 TCDL 10.0 Lumber DOL BC 0.03 Vert(CT) 999 1.15 n/a n/a

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

n/a

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

Structural wood sheathing directly applied or 4-7-13 oc purlins.

Weight: 18 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

2x4 SP No.2 **OTHERS**

REACTIONS. (size) 1=4-7-13, 3=4-7-13, 4=4-7-13

Max Horz 1=47(LC 9)

Max Uplift 1=-17(LC 13), 3=-17(LC 13)

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 1=96(LC 1), 3=96(LC 1), 4=123(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60

WB

Matrix-P

0.01

- 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.

YES

- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Type Truss Qty Avery E14237021 J0320-1371 VE3 VALLEY Job Reference (optional) 8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 11:04:23 2020 Page 1 ID:dRBT_d1wQgjhj7GT6Be0eMzX2x6-oHMLecH7VBaeo9DKLPBMHgrSQkZDK?f2RwNWs6zWlbs Comtech. Inc. Fayetteville, NC - 28314, 1-1-15 2-3-13 1-1-15 Scale = 1:8 6 3x4 = 2 12.00 12 3

> 2-3-13 2-3-13

Plate Offs	sets (X,Y)	[2:0-2-0,Edge]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-P	' '					Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

3x4 \

LUMBER-

REACTIONS.

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

(size) 1=2-3-13, 3=2-3-13

Max Horz 1=-19(LC 8)

Max Uplift 1=-2(LC 12), 3=-2(LC 12)

Max Grav 1=65(LC 1), 3=65(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3x4 //

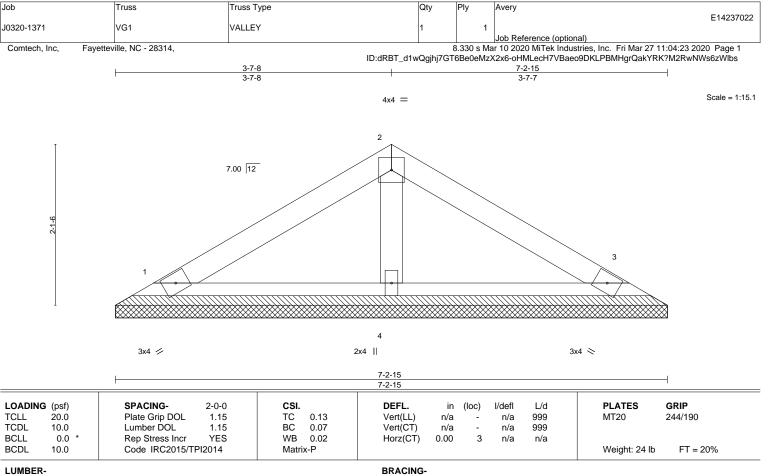
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 2-3-13 oc purlins.

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





TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 1=7-2-15, 3=7-2-15, 4=7-2-15 Max Horz 1=-43(LC 8)

Max Uplift 1=-21(LC 12), 3=-25(LC 13)

Max Grav 1=130(LC 1), 3=130(LC 1), 4=234(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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



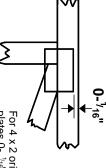
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE



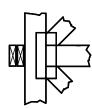
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

National Design Specification for Metal

ANSI/TPI1: DSB-89:

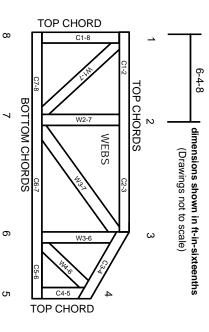
Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Instruction.

Imation,
Iling,

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.