

Job 439172	Truss T25	Truss Type SPECIAL	Qty 1	Ply 1	PAPKA RES.	I5944650
Builders FirstSource, Lake City, FL 32055						7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:40 2012 Page 1
ID: 4zxORjU7zi3EuuwNdMISH9zYnf9-Ow5GKRgOgiDrgh7XUV4sLQcr1RyaikmCV7TGMiybRzh						Job Reference (optional)

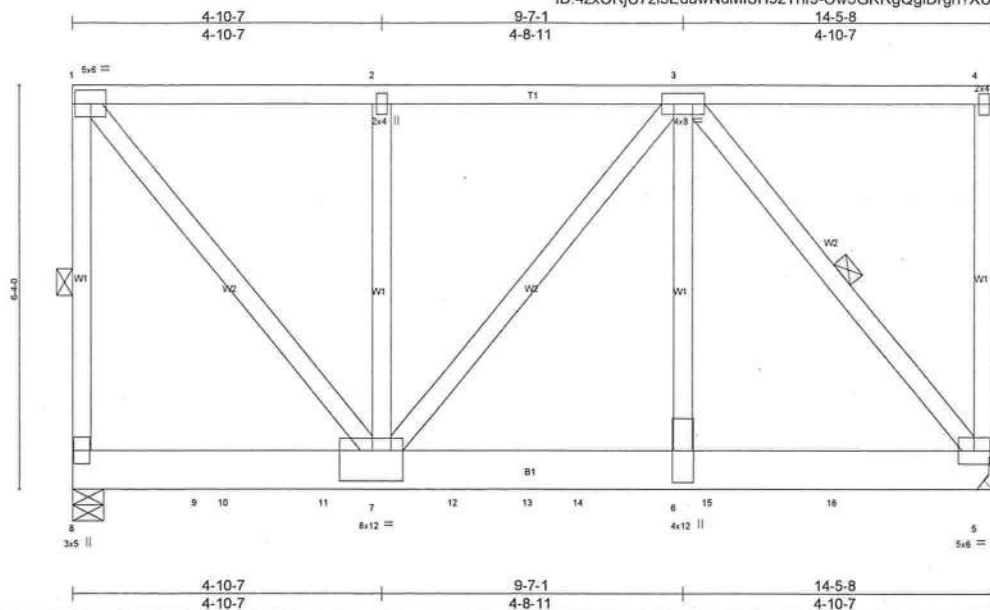


Plate Offsets (X,Y): [7:0-5-12,0-5-12]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.69	Vert(LL) -0.06	6-7	>999	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.27	Vert(TL) -0.11	6-7	>999	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.76	Horz(TL) 0.01	5	n/a	n/a			
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)						Weight: 130 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SYP DSS
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-8, 3-5

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

REACTIONS (lb/size) 8=2913/0-6-0 (min. 0-3-7), 5=3046/Mechanical
Max Horz 8=-185(LC 6)
Max Uplift 8=-956(LC 4), 5=-984(LC 5)
Max Grav 8=2928(LC 2), 5=3100(LC 2)

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

TOP CHORD 1-8=-2108/684, 1-2=-1612/544, 2-3=-1612/544
BOT CHORD 7-12=-514/1587, 12-13=-514/1587, 13-14=-514/1587, 6-14=-514/1587, 6-15=-514/1587,
15-16=-514/1587, 5-16=-514/1587
WEBS 1-7=-808/2555, 2-7=-265/148, 3-6=-457/1697, 3-5=-2516/814

NOTES (11-14)

- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=27ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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 = 5.0psf.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide metal plate or equivalent at bearing(s) 5 to support reaction shown.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 8=956, 5=984.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 434 lb down and 154 lb up at 0-1-12, 673 lb down and 207 lb up at 2-0-12, 673 lb down and 207 lb up at 4-0-12, 673 lb down and 207 lb up at 6-0-12, 673 lb down and 207 lb up at 8-0-12, 673 lb down and 207 lb up at 10-0-12, and 673 lb down and 207 lb up at 12-0-12, and 673 lb down and 207 lb up at 14-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 12) Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB.
- 13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
- 14) Use Simpson HGUS28 to attach Truss to Carrying member

LOAD CASE(S) Standard

Continued on page 2



September 21, 201



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
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Julius Lee PE.
1109 Coastal Bay
Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	
439172	T25	SPECIAL	1	1		I5944650
Builders FirstSource, Lake City, FL 32055						Job Reference (optional)

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:40 2012 Page 2

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LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-.44, 8-10=-.40, 10-13=-.10, 13-16=-.40, 5-16=-.10

Concentrated Loads (lb)

Vert: 8=-.434 5=-.662(F) 9=-.632(F) 11=-.662(F) 12=-.662(F) 14=-.632(F) 15=-.632(F) 16=-.662(F)



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Boynton Beach, FL 33435

Job 439172	Truss T26	Truss Type MOD. QUEEN	Qty 3	Ply 1	PAPKA RES.	I5944651
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:42 2012 Page 1 ID:4zxORjU7zi3EuuwNdMISH9zYnf9-KJD16hgCKUZv79wbw6KQrhD6EZoAbNVzRyNRbybRzF	
<div style="display: flex; justify-content: space-between;"> <div> -1-6-0 1-6-0 5-9-8 5-9-8 11-0-8 5-3-1 17-0-0 5-11-8 22-11-8 5-11-8 28-2-8 5-3-1 34-0-0 5-9-8 </div> <div style="text-align: right;">Scale = 1/58.5</div> </div>						
Plate Offsets (X,Y): [2-0-2-10-0-1-8], [10-0-2-10-0-1-8]						
LOADING (psf) TCLL 20.0 BCDL 7.0 BCLL 0.0 * BCDL 5.0		SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007		CSI TC 0.53 BC 0.61 WB 0.94 (Matrix-M)		DEFL in (loc) l/defl L/d Vert(LL) 0.20 13-15 >999 240 Vert(TL) -0.35 13-15 >999 180 Horz(TL) 0.10 10 n/a n/a
PLATES MT20		GRIP 244/190		Weight: 174 lb FT = 20%		
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3						
BRACING TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 5-6-3 oc bracing. WEBS 1 Row at midpt 7-13, 5-13 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.						
REACTIONS (lb/size) 2=1057/0-3-8 (min. 0-1-9), 10=990/0-3-8 (min. 0-1-8) Max Horz 2=229(LC 12) Max Uplift 2=592(LC 12), 10=536(LC 13) Max Grav 2=1170(LC 2), 10=1087(LC 2)						
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2320/1376, 3-4=-2131/1293, 4-5=-2036/1304, 5-6=-1531/1020, 6-7=-1531/1020, 7-8=-2035/1307, 8-9=-2130/1296, 9-10=-2318/1380 BOT CHORD 2-15=-1127/2001, 15-26=-847/1652, 22-26=-847/1652, 14-22=-847/1652, 14-27=-847/1652, 23-27=-847/1652, 13-23=-847/1652, 13-24=-848/1651, 24-28=-848/1651, 12-28=-848/1651, 12-25=-848/1651, 25-29=-848/1651, 11-29=-848/1651, 10-11=-1132/1999 WEBS 6-13=-628/986, 7-13=-611/495, 7-11=-176/360, 9-11=-284/300, 5-13=-612/494, 5-15=-173/362, 3-15=-285/298						
NOTES (8-10) 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf, h=27ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone 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) 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 = 5.0psf. 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (ji=lb) 2=592, 10=536. 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB. 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435						
LOAD CASE(S) Standard						



September 21, 201

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Julius Lee PE.
1109 Coastal Bay
Boynton Beach, FL 33435

Job 439172	Truss T26G	Truss Type GABLE	Qty 1	Ply 1	PAPKA RES.	15944652
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Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:46 2012 Page 1

ID:4zxORjU7zi3EuuwNdMISH9zYnf9-D4SXbUkBGY_OcThqIBGbh6szY6Qv4u3wbaMybRzB

-1-6-0	5-9-8	11-0-8	17-0-0	22-11-8	28-2-8	34-0-0
1-6-0	5-9-8	5-3-1	5-11-8	5-11-8	5-3-1	5-9-8

Scale = 1/8" = 1'-0"

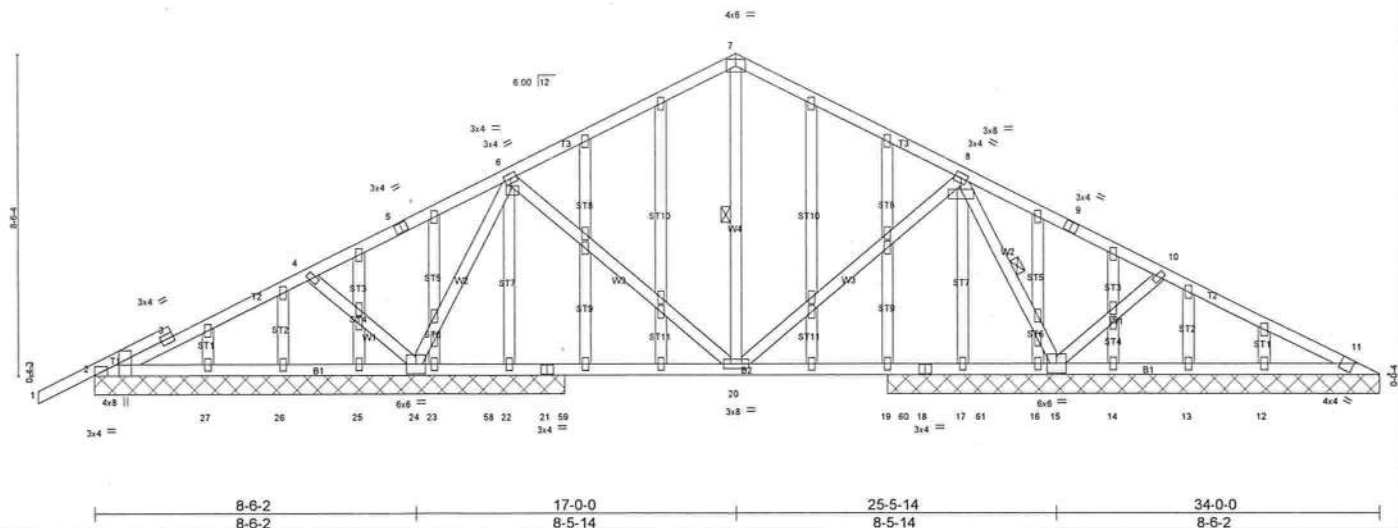


Plate Offsets (X,Y): [2-0-3-8,Edge], [2-0-2-8,Edge], [6-0-1-8,0-1-8], [8-0-4-0,0-1-6]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.43	Vert(LL) 0.04 55 >721 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.84	Vert(TL) -0.05 11 >540 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) 0.01 11 n/a n/a		
	Code FBC2010/TPI2007			Weight: 253 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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. Except:
6-0-0 oc bracing: 14-15,13-14,12-13,12-55.
1 Row at midpt 7-20, 8-15

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

REACTIONS All bearings 13-0-0 except (jt=length) 2=12-5-8, 24=12-5-8, 22=12-5-8, 23=12-5-8, 25=12-5-8, 26=12-5-8, 27=12-5-8, 2=12-5-8.
(lb) - Max Horz 2=221(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 11, 23, 25, 26, 16, 14, 13 except 2=201(LC 12), 15=972(LC 13), 24=894(LC 12), 27=112(LC 12), 12=174(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 22, 25, 26, 27, 19, 17, 16, 14, 13 except 2=400(LC 27), 15=1528(LC 2), 24=1339(LC 2), 12=280(LC 28), 2=328(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-243/351, 5-6=-268/472, 6-7=-519/428, 7-8=-520/428, 8-9=-388/771, 9-10=-358/650, 10-11=-342/436
WEBS 7-20=-264/90, 8-20=-107/320, 8-15=-1480/989, 10-15=-528/454, 6-24=-1189/834, 4-24=-548/461

- NOTES** (12-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=27ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - 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 = 5.0psf.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 23, 25, 26, 16, 14, 13, 11 except (jt=lb) 2=201, 15=972, 24=894, 27=112, 12=174, 2=201.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
 - Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB.
 - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Continued on page 2



September 21, 2012

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1109 Coastal Bay
Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	
439172	T26G	GABLE	1	1		I5944652
Builders FirstSource, Lake City, FL 32055		Job Reference (optional)				

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:47 2012 Page 2

ID: 4zxORjU7zi3EuuwNdMISH9zYnf9-hH0woqlp1s6r0m1uOTIV7vO_rfJnrt9E6jg86pybRZA

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-7=-82(F=-38), 7-11=-82(F=-38), 51-58=-10, 58-59=-40, 59-60=-10, 60-61=-40, 11-61=-10



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Boynton Beach, FL 33435

Job 439172	Truss T27	Truss Type TRIPLE FINK	Qty 1	Ply 2	PAPKA RES.	I5944653
Builders FirstSource, Lake City, FL 32055		7.350 s Jul 31 2012 MITek Industries, Inc. Fri Sep 21 09:39:50 2012 Page 1				
-1-6-0 1-6-0		5-9-8 5-9-8	11-0-8 5-3-0	17-0-0 5-11-8	22-3-6 5-3-6	27-6-11 5-3-6
						34-0-0 6-5-5
ID:4zxORjU7zi3EuuwNdMISH9zYnf9-5si2QsnhKnUQIDmS3bGCIX0WTLk2ERgohuoJ7ybRz7						
Scale = 1/8" = 1'-0"						
Plate Offsets (X,Y): [2-0-4-0,0-1-15], [10-0-3-4,0-1-6], [13-0-3-8,0-6-4]						
LOADING (psf) TCCL 20.0 TCDL 7.0 BCCL 0.0 BCDL 5.0		SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TP12007		CSI TC 0.87 BC 0.41 WB 0.87 (Matrix-M)		DEFL in (loc) l/defl L/d Vert(LL) -0.22 13 >999 240 Vert(TL) -0.42 13-14 >962 180 Horz(TL) 0.08 10 n/a n/a
				PLATES MT20 GRIP 244/190 Weight: 464 lb FT = 20%		
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SYP DSS WEBS 2x4 SP No.3		BRACING TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 7-14				
REACTIONS (lb/size) 2=2431/0-3-8 (min. 0-1-9), 10=4813/0-3-8 (min. 0-3-3) Max Horz 2=140(LC 7) Max Uplift 2=834(LC 8), 10=1862(LC 9) Max Grav 2=2654(LC 2), 10=5356(LC 2)						
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-5329/1660, 3-4=-5140/1613, 4-5=-5081/1624, 5-6=-4675/1527, 6-7=-4664/1528, 7-8=-7830/2543, 8-9=-7892/2529, 9-10=-9704/3148 BOT CHORD 2-16=-1532/4718, 16-21=-1387/4455, 15-21=-1387/4455, 15-22=-1387/4455, 14-22=-1387/4455, 14-23=-2118/7004, 13-23=-2118/7004, 12-13=-2741/8626, 12-24=-2741/8626, 11-24=-2741/8626, 11-25=-2741/8626, 25-26=-2741/8626, 26-27=-2741/8626, 10-27=-2741/8626 WEBS 5-16=-55/340, 5-14=-509/262, 6-14=-1238/3821, 7-14=-4280/1511, 7-13=-1414/4299, 9-13=-1885/742, 9-11=-495/1482						
NOTES (11-13) 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 7-13 2x4 - 1 row at 0-8-0 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; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=27ft; Cat. II; Exp C; Encl.; GCpi=0.18; 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, with BCDL = 5.0psf. 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=834, 10=1862. 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3090 lb down and 993 lb up at 21-11-4, 448 lb down and 165 lb up at 23-11-4, 448 lb down and 165 lb up at 25-11-4, 448 lb down and 165 lb up at 27-11-4, 448 lb down and 165 lb up at 29-11-4, and 448 lb down and 165 lb up at 31-11-4, and 434 lb down and 255 lb up at 33-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 12) Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB. 13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435						



Continued on page 2
LOAD CASE(S) Standard

September 21,201

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 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult - **ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component**
Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.
1109 Coastal Bay
Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	15944653
439172	T27	TRIPLE FINK	1	2	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:50 2012 Page 2
ID:4zxORjU7zi3EuuwNdMISH9zYnf9-5si2QsnhKnUQiDmS3bGCIX0WTLk2ERgohuo7ybRz7

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-44, 6-10=-44, 2-21=-10, 21-22=-40, 10-22=-10

Concentrated Loads (lb)

Vert: 10=-365(B) 12=-376(B) 23=-3037(B) 24=-376(B) 25=-376(B) 26=-376(B) 27=-376(B)



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Julius Lee PE.
1109 Coastal Bay
Boynton Beach, FL 33435

Job 439172	Truss T28	Truss Type MOD. QUEEN	Qty 7	Ply 1	PAPKA RES. Job Reference (optional) 7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:52 2012 Page 1 ID:4zxORjU7zi3EuuwNdMISH9zYnf9-2EporXpxrOk86XwrB0lgqy5zDG_YWFqzG?Nvn0ybRz5	I5944654
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Builders FirstSource, Lake City, FL 32055

Scale = 1/8" = 1'-0"

Plate Offsets (X,Y): [2-0-2-10-0-1-8]	
---------------------------------------	--

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCCL 7.0	Plates Increase 1.25	BC 0.52	Vert(LL) -0.12 9-11 >999 240		
BCCL 0.0 *	Lumber Increase 1.25	WB 0.43	Vert(TL) -0.22 9-11 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.03 8 n/a n/a		
	Code FBC2010/TPI2007			Weight: 130 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W6: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-3-6 oc bracing.
 WEBS 1 Row at midpt 5-9, 6-9

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

REACTIONS (lb/size) 2=694/0-3-8 (min. 0-1-8), 8=617/Mechanical
 Max Horz 2=413(LC 12)
 Max Uplift 2=405(LC 12), 8=381(LC 12)
 Max Grav 2=786(LC 2), 8=685(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1316/693, 3-4=-1122/608, 4-5=-1027/619, 5-6=-491/323, 6-7=-471/327, 7-8=-790/529
 BOT CHORD 2-11=-879/1310, 11-17=-588/829, 15-17=-588/829, 10-15=-588/829, 10-18=-588/829, 16-18=-588/829, 9-16=-588/829
 WEBS 3-11=-300/307, 5-11=-185/393, 5-9=-632/502, 7-9=-352/593

NOTES (8-11)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=27ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
- 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 = 5.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 2=405, 8=381.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
- Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd, Boynton Beach, FL 33435
- Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard



September 21, 201

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Julius Lee PE,
 1109 Coastal Bay
 Boynton Beach, FL 33435

Job 439172	Truss T28G	Truss Type GABLE	Qty 1	Ply 1	PAPKA RES.	15944655
Builders FirstSource, Lake City, FL 32055			7,350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:55 2012 Page 1 ID: 4zxORjU7zi3EuuwNdMISH9zYnf9-SpVxUZrq8J6jz_fQs8rNSbjN6U3ljV3PyzcZOLyBRz2			
Plate Offsets (X,Y): [2-0-3-8,Edge], [2-0-2-8,Edge]						
LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d
TCLL 20.0	Plates Increase 1.25	TC 0.83	Vert(LL) -0.02	10-12	>999	240
TCDL 7.0	Lumber Increase 1.25	BC 0.36	Vert(TL) -0.05	10-12	>999	180
BCLL 0.0 *	Rep Stress Incr NO	WB 0.79	Horz(TL) -0.01	9	n/a	n/a
BCDL 5.0	Code FBC2010/TPI2007	(Matrix-M)				
			PLATES	GRIP		
			MT20	244/190		
			Weight: 189 lb FT = 20%			
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 *Except* W6: 2x4 SP No.2 OTHERS 2x4 SP No.3						
BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 7-10 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.						
REACTIONS All bearings 12-5-8 except (jt=length) 9-0-10-8. (lb) - Max Horz 2=396(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 13, 15, 16 except 2=176(LC 12), 14=850(LC 12), 9=346(LC 12), 17=116(LC 12) Max Grav All reactions 250 lb or less at joint(s) 12, 15, 16, 17 except 2=409(LC 27), 14=1261(LC 2), 9=637(LC 2), 2=341(LC 1)						
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 4-5=-308/337, 5-6=-337/458, 6-7=-445/282, 7-8=-401/276, 8-9=-679/478 WEBS 4-14=-545/455, 6-14=-1106/800, 7-10=-293/204, 8-10=-243/394						
NOTES (12-15) 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=27ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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) 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 = 5.0psf. 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 15, 16 except (jt=lb) 2=176, 14=850, 9=346, 17=116, 2=176. 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 13) Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB. 14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 15) Use Simpson HTU26 to attach Truss to Carrying member						
LOAD CASE(S) Standard						

Continued on page 2



September 21, 201

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

Julius Lee PE
 1109 Coastal Bay
 Boynton Beach, FL 33435

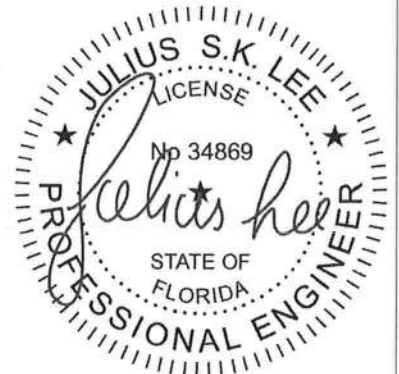
Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	IS944655
439172	T28G	GABLE	1	1		
Builders FirstSource, Lake City, FL 32055						7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:55 2012 Page 2
						ID:4zxORjU7zi3EuuwNdMISH9zYnf9-SpVxUZrq8J6jz_fQs8rNSbjN6U3jV3PyzcZOLyBRz2
LOAD CASE(S) Standard 1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-7=-82(F=-38), 7-8=-82(F=-38), 36-40=-10, 40-41=-40, 9-41=-10						



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Julius Lee PE.
 1109 Coastal Bay
 Boynton Beach, FL 33435

Job 439172	Truss T29	Truss Type DUAL PITCH	Qty 1	Ply 1	PAPKA RES. Job Reference (optional) ID:4zxORjU7zi3EuuwNdMISH9zYnf9-OCdhuF4gxNQClOp_ZurX0poyHnVBRViPG5gTDybRz0	15944656																																										
Builders FirstSource, Lake City, FL 32055		7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:57 2012 Page 1																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">LOADING (psf)</td> <td style="width:15%;">SPACING</td> <td style="width:10%;">CSI</td> <td style="width:10%;">DEFL</td> <td style="width:10%;">PLATES</td> <td style="width:10%;">GRIP</td> <td style="width:10%;"></td> </tr> <tr> <td>TCLL 20.0</td> <td>2-0-0</td> <td>TC 0.49</td> <td>in (loc) l/defl L/d</td> <td>MT20</td> <td>244/190</td> <td></td> </tr> <tr> <td>TCDL 7.0</td> <td>Plates Increase 1.25</td> <td>BC 0.15</td> <td>Vert(LL) -0.05 11 >999 240</td> <td></td> <td></td> <td></td> </tr> <tr> <td>BCLL 0.0 *</td> <td>Lumber Increase 1.25</td> <td>WB 0.66</td> <td>Vert(TL) -0.10 10-11 >999 180</td> <td></td> <td></td> <td></td> </tr> <tr> <td>BCDL 5.0</td> <td>Rep Stress Incr NO</td> <td>(Matrix-M)</td> <td>Horz(TL) 0.01 9 n/a n/a</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Code FBC2010/TPI2007</td> <td></td> <td></td> <td></td> <td></td> <td>Weight: 160 lb FT = 20%</td> </tr> </table>							LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP		TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190		TCDL 7.0	Plates Increase 1.25	BC 0.15	Vert(LL) -0.05 11 >999 240				BCLL 0.0 *	Lumber Increase 1.25	WB 0.66	Vert(TL) -0.10 10-11 >999 180				BCDL 5.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) 0.01 9 n/a n/a					Code FBC2010/TPI2007					Weight: 160 lb FT = 20%
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	Code FBC2010/TPI2007					Weight: 160 lb FT = 20%																																										
<p>LUMBER</p> <p>TOP CHORD 2x4 SP No.2</p> <p>BOT CHORD 2x8 SYP DSS</p> <p>WEBS 2x4 SP No.3 *Except*</p> <p>W1: 2x4 SP No.2, W11: 2x6 SYP No.2</p> <p>BRACING</p> <p>TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins, except end verticals.</p> <p>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.</p> <p>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</p> <p>REACTIONS (lb/size) 15=794/0-6-0 (min. 0-1-8), 9=1565/0-8-4 (min. 0-2-2)</p> <p>Max Horz 15=-125(LC 5)</p> <p>Max Uplift 15=-387(LC 4), 9=-592(LC 5)</p> <p>Max Grav 15=935(LC 2), 9=1791(LC 2)</p> <p>FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.</p> <p>TOP CHORD 1-2=-845/329, 2-3=-1153/429, 3-4=-1180/432, 4-5=-1769/567, 5-6=-1902/554, 1-15=-930/364, 6-9=-1356/504</p> <p>BOT CHORD 14-17=-223/801, 17-18=-223/801, 13-18=-223/801, 12-13=-448/1649, 11-12=-448/1649, 11-19=-481/1765, 10-19=-481/1765</p> <p>WEBS 2-14=-645/216, 2-13=-142/489, 3-13=-150/429, 4-13=-799/264, 4-11=-102/497, 1-14=-379/1017, 6-10=-490/1625</p> <p>NOTES (10-12)</p> <p>1) Unbalanced roof live loads have been considered for this design.</p> <p>2) Wind: ASCE 7-10, 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=27ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60</p> <p>3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</p> <p>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.</p> <p>5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.</p> <p>6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=387, 9=592.</p> <p>7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.</p> <p>8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb up at 1-8-15, 13 lb down and 37 lb up at 4-6-14, 104 lb down and 74 lb up at 7-4-13, 191 lb down and 77 lb up at 10-2-12, 267 lb down and 71 lb up at 13-0-12, and 362 lb down and 82 lb up at 15-10-10, and 430 lb down and 105 lb up at 18-8-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.</p> <p>9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).</p> <p>10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.</p> <p>11) Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB.</p> <p>12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869. Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435</p> <p>LOAD CASE(S) Standard</p> <p>1) Regular: Lumber Increase=1.25, Plate Increase=1.25</p> <p>Uniform Loads (plf)</p> <p>Vert: 1-3=-44, 3-6=-44, 6-7=-44, 8-15=-10</p>																																																



September 21,201

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Boynton Beach, FL 33435

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.
439172	T29	DUAL PITCH	1	1	IS944656
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		
			7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Sep 21 09:39:57 2012 Page 2		
			ID:4zxORjU7zi3EuuwNdMISH9zYnf9-OCdhuFt4gxNQClap_ZurX0poyHnVBRViPG5gTDybRz0		
LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 12=-159(B) 10=-304(B) 16=54(B) 17=-9(B) 18=-86(B) 19=-267(B) 20=-400(B)					

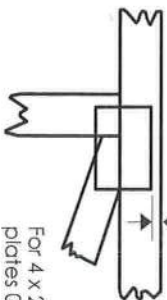
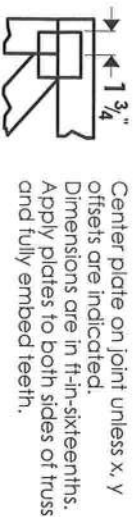


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 Boynton Beach, FL 33435

Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

PLATE SIZE

4 X 4

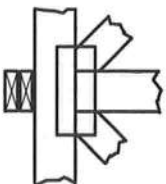
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

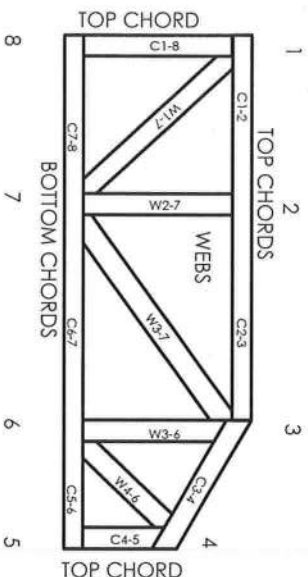


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TFP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

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

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Julius Lee PE
1109 Coastal Bay,
Boynton Beach, FL 33435

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g., diagonal or X-bracing, is always required. See BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing of 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.