

# JULIUS LEE PE.

RE: 460040 -

**1109 COASTAL BAY BLVD,  
BOYNTON BEACH, FL 33435**

### Site Information:

Project Customer: Dreambuilder Custom Homes Project Name: 460040 Model: Cromer Residence  
Lot/Block: 2 Subdivision: Avalon  
Address:  
City: Duval State: Florida

### Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: Pontigo, Luis Antonio, PE License #: 53311  
Address: 420 Osceola Ave.  
City: Jacksonville Beach State: Florida

### General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

FBC 2010/TPI 2007 Design Program: MiTek 20/20 7.3  
ASCE 7-10 Wind Speed: 130 mph Floor Load: 55.0 psf  
Roof Load: 32.0 psf

This package includes 35 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules. This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

**In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany this coversheet. The latest approval dates supersede and replace the previous drawings.**

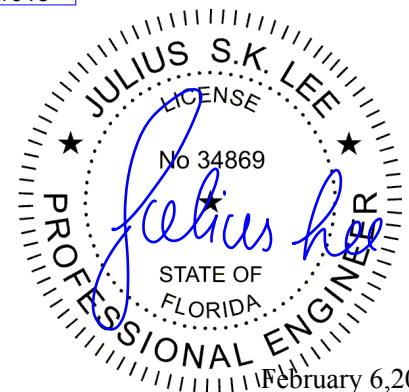
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I6370203	F01	2/6/013	18	I6370220	T10G	2/6/013
2	I6370204	F02	2/6/013	19	I6370221	T11	2/6/013
3	I6370205	F03	2/6/013	20	I6370222	T12G	2/6/013
4	I6370206	F04	2/6/013	21	I6370223	T13G	2/6/013
5	I6370207	F05	2/6/013	22	I6370224	T14	2/6/013
6	I6370208	F06	2/6/013	23	I6370225	T15	2/6/013
7	I6370209	F07	2/6/013	24	I6370226	T15A	2/6/013
8	I6370210	FKW	2/6/013	25	I6370227	T16G	2/6/013
9	I6370211	T01G	2/6/013	26	I6370228	T17G	2/6/013
10	I6370212	T02	2/6/013	27	I6370229	T18	2/6/013
11	I6370213	T03	2/6/013	28	I6370230	T19G	2/6/013
12	I6370214	T04G	2/6/013	29	I6370231	T20	2/6/013
13	I6370215	T05G	2/6/013	30	I6370232	T21	2/6/013
14	I6370216	T06	2/6/013	31	I6370233	T22G	2/6/013
15	I6370217	T07	2/6/013	32	I6370234	T23	2/6/013
16	I6370218	T08G	2/6/013	33	I6370235	T24	2/6/013
17	I6370219	T09	2/6/013	34	I6370236	TG01	2/6/013

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Jax).

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is February 28, 2013.

**NOTE:** The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.



February 6, 2013

RE: 460040 -

**Site Information:**

Project Customer: Dreambuilder Custom Homes Project Name: 460040 Model: Cromer Residence  
Lot/Block: 2 Subdivision: Avalon  
Address:  
City: Duval State: Florida

No.	Seal#	Truss Name	Date
35	I6370237	TG02	2/6/013

Job 460040	Truss F01	Truss Type Floor Truss	Qty 3	Ply 1	Job Reference (optional)	16370203
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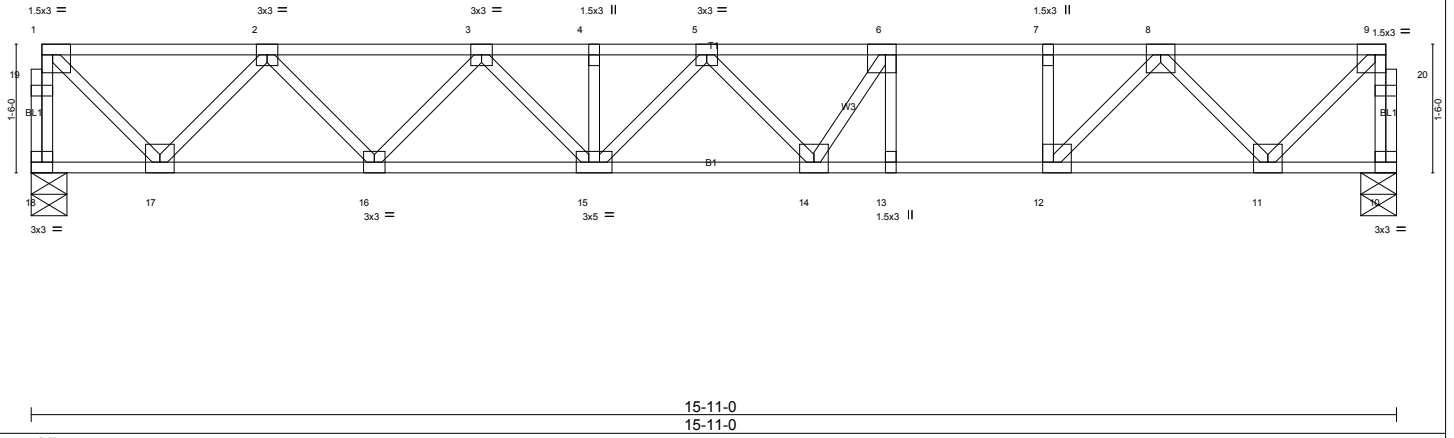


Plate Offsets (X,Y): [1:Edge,0-1-8], [6:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFLL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.73	Vert(LL) -0.20 13-14 >938 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.52	Vert(TL) -0.31 13-14 >606 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 10 n/a n/a		
	Code FBC2010/TPI2007			Weight: 88 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 18=855/0-5-0 (min. 0-1-8), 10=855/0-5-0 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 18-19=-850/0, 1-19=-849/0, 10-20=-818/0, 9-20=-817/0, 1-2=-752/0, 2-3=-1809/0, 3-4=-2364/0, 4-5=-2364/0, 5-6=-2355/0, 6-7=-2068/0, 7-8=-2068/0, 8-9=706/0  
 BOT CHORD 16-17=0/1414, 15-16=0/2177, 14-15=0/2505, 13-14=0/2068, 12-13=0/2068, 11-12=0/1421  
 WEBS 1-17=0/1033, 2-17=-985/0, 2-16=0/588, 3-16=-547/0, 3-15=0/270, 5-14=-287/79, 6-14=0/616, 6-13=-466/0, 9-11=0/969, 8-11=-1062/0, 8-12=0/1006, 7-12=-419/0

- NOTES** (6-8)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 4x4 MT20 unless otherwise indicated.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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 SP, 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

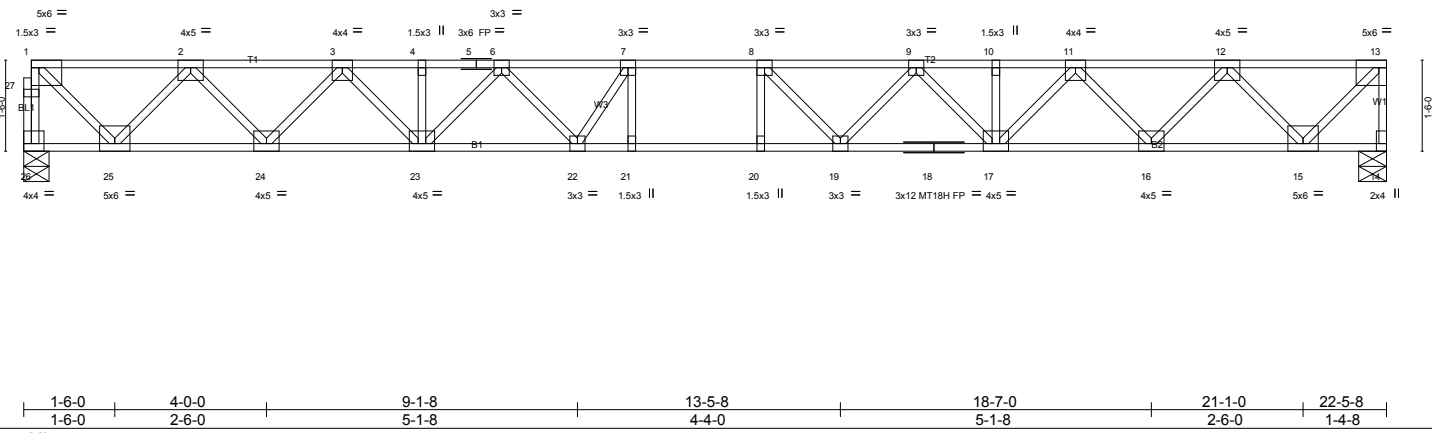
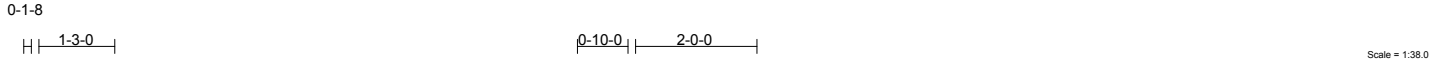
**LOAD CASE(S)** Standard



February 6, 2013

Job 460040	Truss F02	Truss Type Floor Truss	Qty 10	Ply 1	6370204
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:05 2013 Page 1  
 ID:6aq2sa10tpgd9ExOR5qmmmezumY0-1XewuqzoFLz6SxSQuZwD0q\_0AtxAz3I4QtWcRozns5K



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.79	Vert(LL) -0.39 20 >687 360	MT18H	244/190
BCLL 0.0	Lumber Increase 1.00	WB 0.78	Vert(TL) -0.61 20 >439 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.10 14 n/a n/a		
	Code FBC2010/TPI2007			Weight: 121 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat) *Except* T1: 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-4-3 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat) *Except* B2: 2x4 SYP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 26=1219/0-5-0 (min. 0-1-8), 14=1225/0-5-8 (min. 0-1-8)

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

TOP CHORD 26-27=-1213/0, 1-27=-1212/0, 13-14=-1218/0, 1-2=-1114/0, 2-3=-2828/0, 3-4=-4072/0, 4-5=-4072/0, 5-6=-4072/0, 6-7=-4753/0, 7-8=-4933/0, 8-9=-4730/0, 9-10=-4045/0, 10-11=-4045/0, 11-12=-2793/0, 12-13=-1065/0

BOT CHORD 24-25=0/2105, 23-24=0/3528, 22-23=0/4506, 21-22=0/4933, 20-21=0/4933, 19-20=0/4933, 18-19=0/4505, 17-18=0/4505, 16-17=0/3498, 15-16=0/2063

WEBS 13-15=0/1542, 1-25=0/1534, 12-15=-1483/0, 2-25=-1473/0, 12-16=0/1085, 2-24=0/1075, 11-16=-1049/0, 3-24=1040/0, 11-17=0/793, 3-23=0/788, 9-17=-665/0, 6-23=-629/0, 9-19=0/500, 6-22=0/549, 8-19=-636/142, 7-22=-690/161, 7-21=-250/324

- NOTES** (7-9)
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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 SP, 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



February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 460040	Truss F03	Truss Type Floor Truss	Qty 5	Ply 1	Job Reference (optional) 6370205
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:06 2013 Page 1  
ID:6aq2sa10tpgd9ExOR5qmmmezumY0-VkCl6A\_Q0f5z351cSHRSZ2X60HlulXHEfXG9zEzns5J

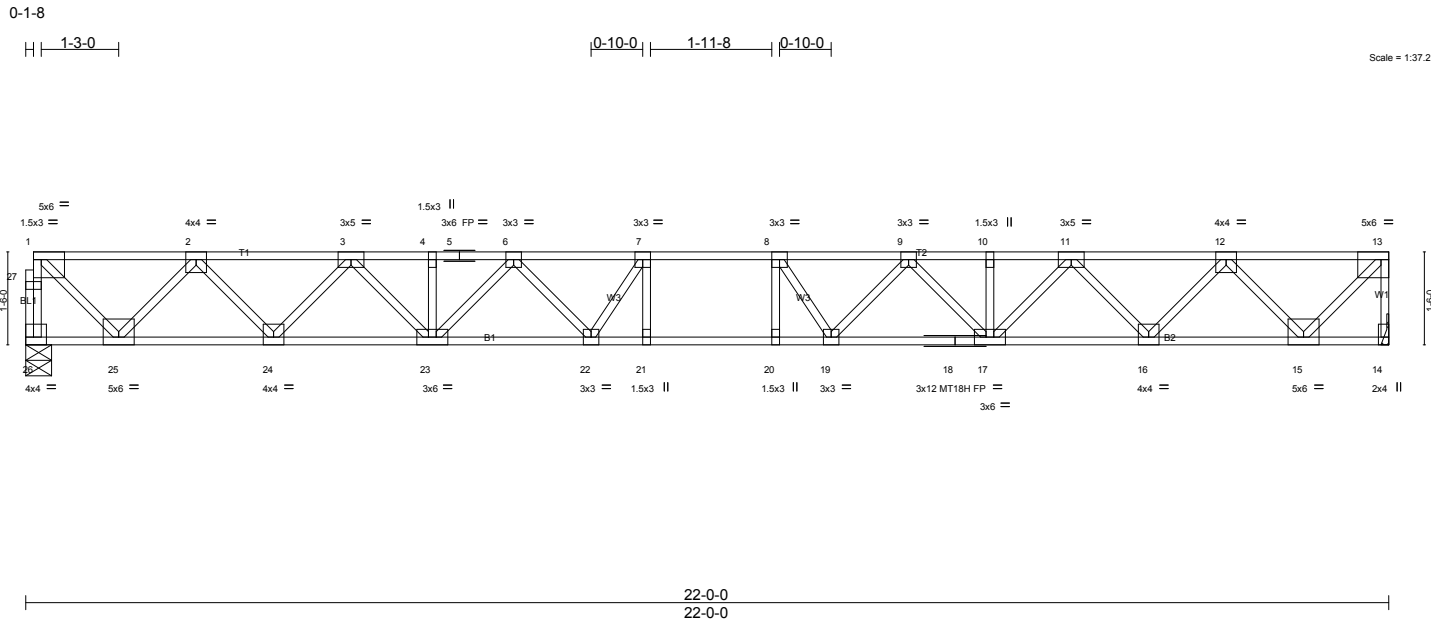


Plate Offsets (X,Y): [1:Edge,0-1-8], [13:0-1-8,Edge], [14:0-1-8,Edge], [26:Edge,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.88	in (loc) l/defl L/d	MT20 244/190	
TCDL 10.0	Plates Increase 1.00	BC 0.76	Vert(LL) -0.38 20-21 >682 360	MT18H 244/190	
BCLL 0.0	Lumber Increase 1.00	WB 0.77	Vert(TL) -0.60 20-21 >436 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.10 14 n/a n/a		
	Code FBC2010/TPI2007				Weight: 119 lb FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP M 31(flat) *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 26=1193/0-5-0 (min. 0-1-8), 14=1200/Mechanical

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

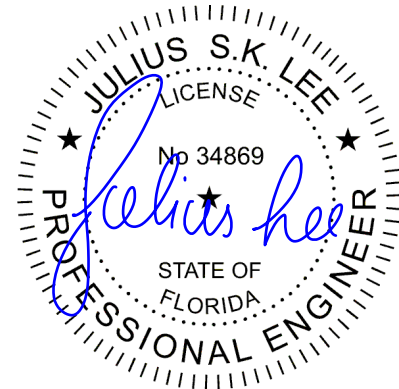
TOP CHORD 26-27=-1188/0, 1-27=-1186/0, 13-14=-1192/0, 1-2=-1089/0, 2-3=-2758/0, 3-4=-3953/0, 4-5=-3953/0, 5-6=-3953/0, 6-7=-4586/0, 7-8=-4730/0, 8-9=-4577/0, 9-10=-3931/0, 10-11=-3931/0, 11-12=-2723/0, 12-13=-1041/0

BOT CHORD 24-25=0/2057, 23-24=0/3434, 22-23=0/4367, 21-22=0/4730, 20-21=0/4730, 19-20=0/4730, 18-19=0/4351, 17-18=0/4351, 16-17=0/3406, 15-16=0/2016

WEBS 1-25=0/1499, 2-25=-1439/0, 2-24=0/1041, 3-24=-1006/0, 3-23=0/751, 6-23=-600/0, 6-22=0/503, 7-22=-627/188, 7-21=-280/300, 13-15=0/1508, 12-15=-1449/0, 12-16=0/1051, 11-16=-1015/0, 11-17=0/762, 9-17=-607/0, 9-19=0/510, 8-19=-639/176, 8-20=-273/307

- NOTES** (7-10)
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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 SP, 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 HHUS48 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



February 6, 2013

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

Job 460040	Truss F04	Truss Type Floor Truss	Qty 4	Ply 1	Job Reference (optional) 16370206
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:07 2013 Page 1  
ID:6aq2sa10tpgd9ExOR5qmmezumY0-zwmgJW\_2nyDphFco0\_yh5F3MQhc7R3fNuB?jWgzns5

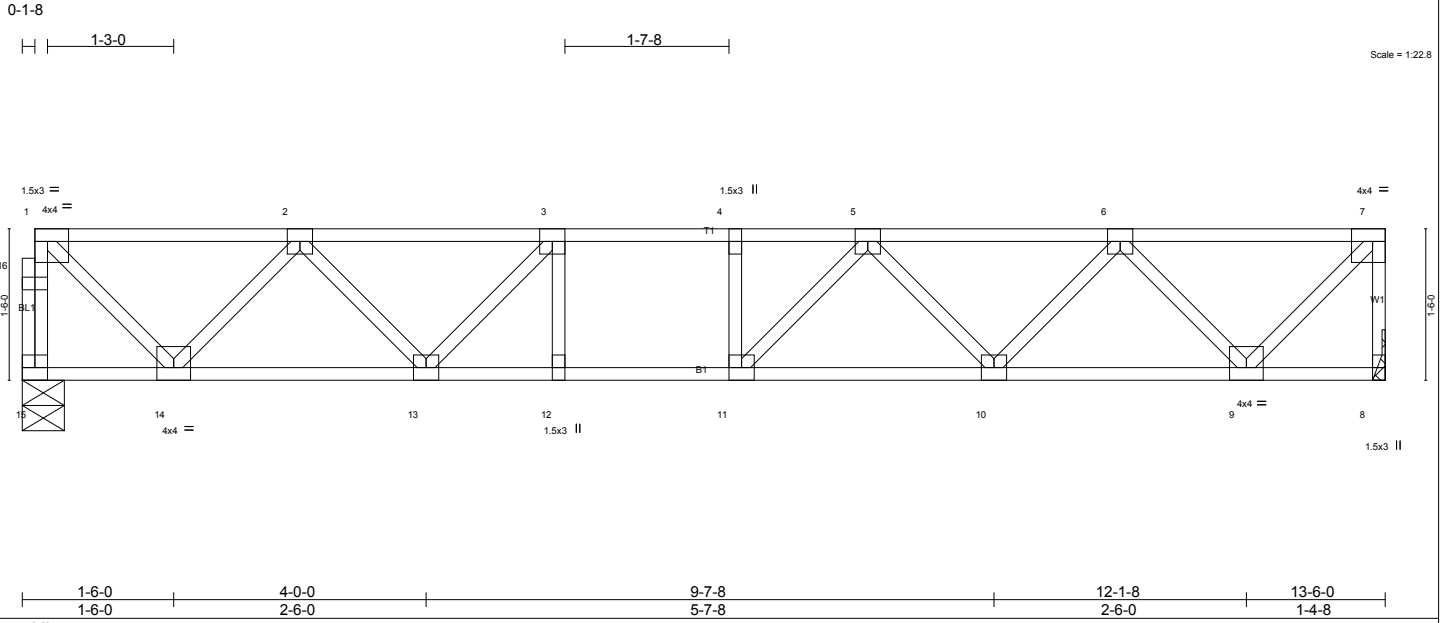


Plate Offsets (X,Y): [1:Edge,0-1-8], [7:0-1-8,Edge]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.82	Vert(LL) -0.11 10-11 >999 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.44	Vert(TL) -0.16 10-11 >988 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 8 n/a n/a		
	Code FBC2010/TPI2007			Weight: 73 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 15=726/0-5-0 (min. 0-1-8), 8=732/Mechanical

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 15-16=-723/0, 1-16=-722/0, 7-8=-725/0, 1-2=-623/0, 2-3=-1445/0, 3-4=-1743/0, 4-5=-1743/0, 5-6=-1435/0, 6-7=-595/0  
BOT CHORD 13-14=0/1163, 12-13=0/1743, 11-12=0/1743, 10-11=0/1686, 9-10=0/1148  
WEBS 7-9=0/862, 1-14=0/855, 6-9=-822/0, 2-14=-802/0, 6-10=0/426, 2-13=0/427, 5-10=-373/0, 3-13=-506/0, 5-11=-105/314

- NOTES** (7-10)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x3 MT20 unless otherwise indicated.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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 SP, 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 LUS46 to attach Truss to Carrying member

**LOAD CASE(S)** Standard

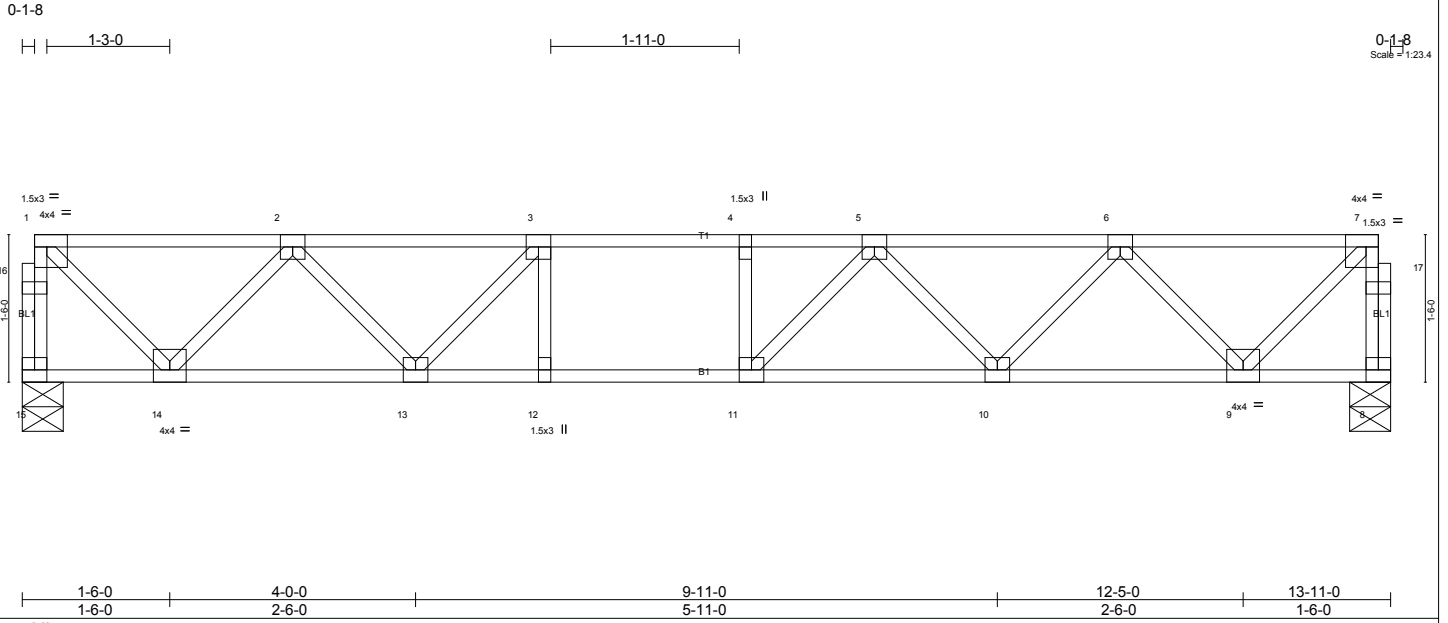


February 6, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>  Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE. 1109 Coastal Bay Boynton Beach, FL 33435</p>
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Job 460040	Truss F05	Truss Type Floor Truss	Qty 3	Ply 1	Job Reference (optional)	16370207
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:07 2013 Page 1  
ID:6aq2sa10tpgd9ExOR5qmmezumY0-zwmgJW\_2nyDphFco0\_yh5F3Ldha9R3VNuB?jWgzns5



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.95	Vert(LL) -0.14 10-11 >999 360	Weight: 75 lb FT = 11%F, 11%E	
BCLL 0.0	Lumber Increase 1.00	WB 0.45	Vert(TL) -0.20 10-11 >826 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 8 n/a n/a		
	Code FBC2010/TPI2007				

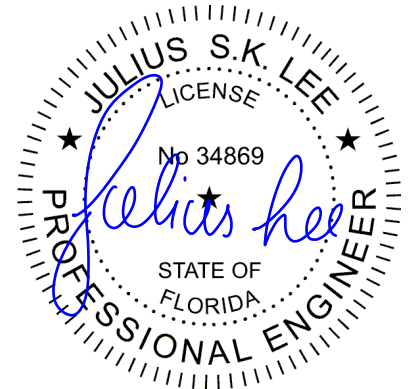
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3(flat)	2-2-0 oc bracing: 11-12.

**REACTIONS** (lb/size) 15=745/0-5-0 (min. 0-1-8), 8=745/0-5-0 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 15-16=-742/0, 1-16=-742/0, 8-17=-739/0, 7-17=-738/0, 1-2=-642/0, 2-3=-1501/0, 3-4=-1830/0, 4-5=-1830/0, 5-6=-1505/0, 6-7=-641/0  
BOT CHORD 13-14=0/1198, 12-13=0/1830, 11-12=0/1830, 10-11=0/1764, 9-10=0/1206  
WEBS 7-9=0/880, 1-14=0/881, 6-9=-840/0, 2-14=-826/0, 6-10=0/444, 2-13=0/459, 5-10=-385/0, 3-13=-558/0, 5-11=-98/342

- NOTES** (6-8)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x3 MT20 unless otherwise indicated.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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 SP, 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



February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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, DSB-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 460040	Truss F06	Truss Type Floor Truss	Qty 6	Ply 1	Job Reference (optional) 6370208
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Builders FirstSource, Jacksonville, FL 32244

7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:08 2013 Page 1  
ID:6aq2sa10tpgd9ExOR5qmmezumY0-R6J2Ws?gYGLgJOB?ZhTweTcSy5vYASGW6rIG27zns5H

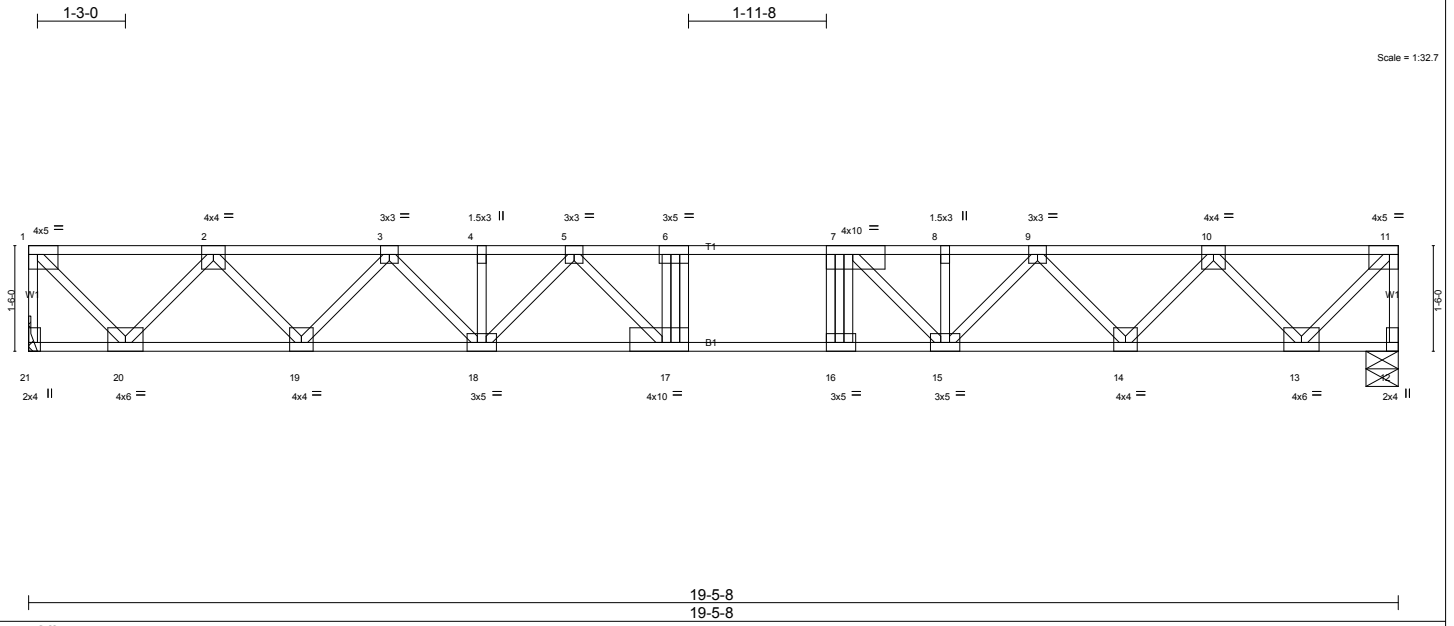


Plate Offsets (X,Y): [1:Edge,0-1-8], [6:0-2-0,Edge], [7:0-4-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [16:0-1-8,Edge], [17:0-4-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 1.00	Vert(LL) -0.28 17-18 >818 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.67	Vert(TL) -0.43 17-18 >535 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.07 12 n/a n/a		
	Code FBC2010/TPI2007			Weight: 111 lb	FT = 11%F, 11%E

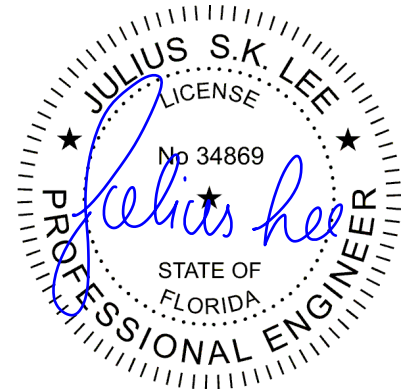
<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 21=1263/Mechanical, 12=1063/0-5-8 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-21=-1257/0, 11-12=-1056/0, 1-2=-912/0, 2-3=-2344/0, 3-4=-3310/0, 4-5=-3685/0, 5-6=-3685/0, 6-7=-3689/0, 7-8=-3286/0, 8-9=-3286/0, 9-10=-2348/0, 10-11=-911/0  
 BOT CHORD 19-20=0/1762, 18-19=0/2907, 17-18=0/3577, 16-17=0/3689, 15-16=0/3686, 14-15=0/2903, 13-14=0/1763  
 WEBS 1-20=0/1321, 2-20=-1264/0, 2-19=0/865, 3-19=-837/0, 3-18=0/584, 5-18=-397/0, 5-17=-176/525, 6-17=-272/13, 11-13=0/1319, 10-13=-1267/0, 10-14=0/870, 9-14=-826/0, 9-15=0/555, 7-15=-847/0

- NOTES** (5-8)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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 SP, 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 HHUS48 to attach Truss to Carrying member

**LOAD CASE(S)** Standard  
 1) Floor: Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 12-21=-10, 1-11=-100  
 Concentrated Loads (lb)  
 Vert: 1=-200



February 6, 2013

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



Job 460040	Truss F07	Truss Type Floor Truss	Qty 2	Ply 1	6370209 Job Reference (optional)
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Builders FirstSource, Jacksonville, FL 32244

7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:09 2013 Page 1  
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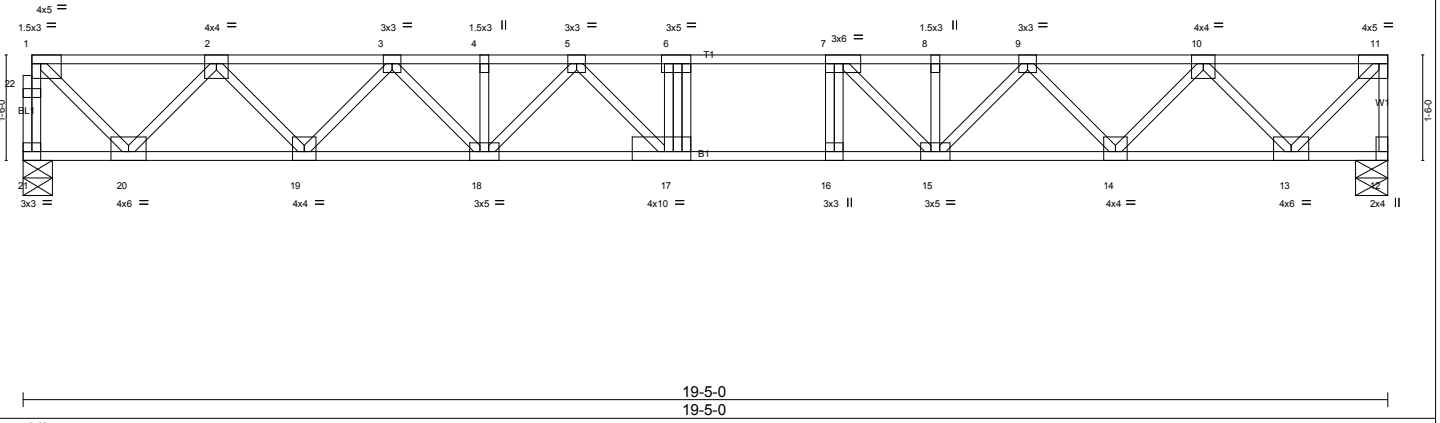
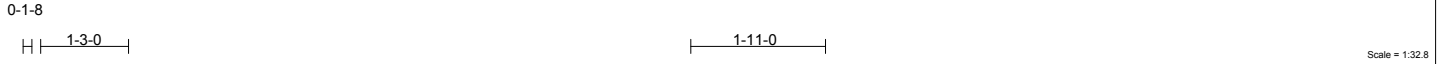


Plate Offsets (X,Y): [1:Edge,0-1-8], [6:0-2-0,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.88	Vert(LL) -0.27 17-18 >863 360		
BCLL 0.0	Lumber Increase 1.00	WB 0.67	Vert(TL) -0.41 17-18 >557 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.07 12 n/a n/a		
	Code FBC2010/TPI2007			Weight: 110 lb	FT = 11%F, 11%E

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SYP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SYP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 21=1051/0-5-0 (min. 0-1-8), 12=1058/0-5-8 (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 21-22=-1047/0, 1-22=-1046/0, 11-12=-1050/0, 1-2=-948/0, 2-3=-2356/0, 3-4=-3299/0, 4-5=-3299/0, 5-6=-3646/0, 6-7=-3649/0, 7-8=-3261/0, 8-9=-3261/0, 9-10=-2332/0, 10-11=-905/0  
 BOT CHORD 19-20=0/1786, 18-19=0/2908, 17-18=0/3556, 16-17=0/3649, 15-16=0/3649, 14-15=0/2882, 13-14=0/1752  
 WEBS 1-20=0/1305, 2-20=-1246/0, 2-19=0/847, 3-19=-820/0, 3-18=0/566, 5-18=-384/0, 5-17=-193/499, 6-17=-257/27, 11-13=0/1311, 10-13=-1259/0, 10-14=0/862, 9-14=-818/0, 9-15=0/548, 7-15=-829/0

- NOTES** (6-8)
- Unbalanced floor live loads have been considered for this design.
  - All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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 SP, 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



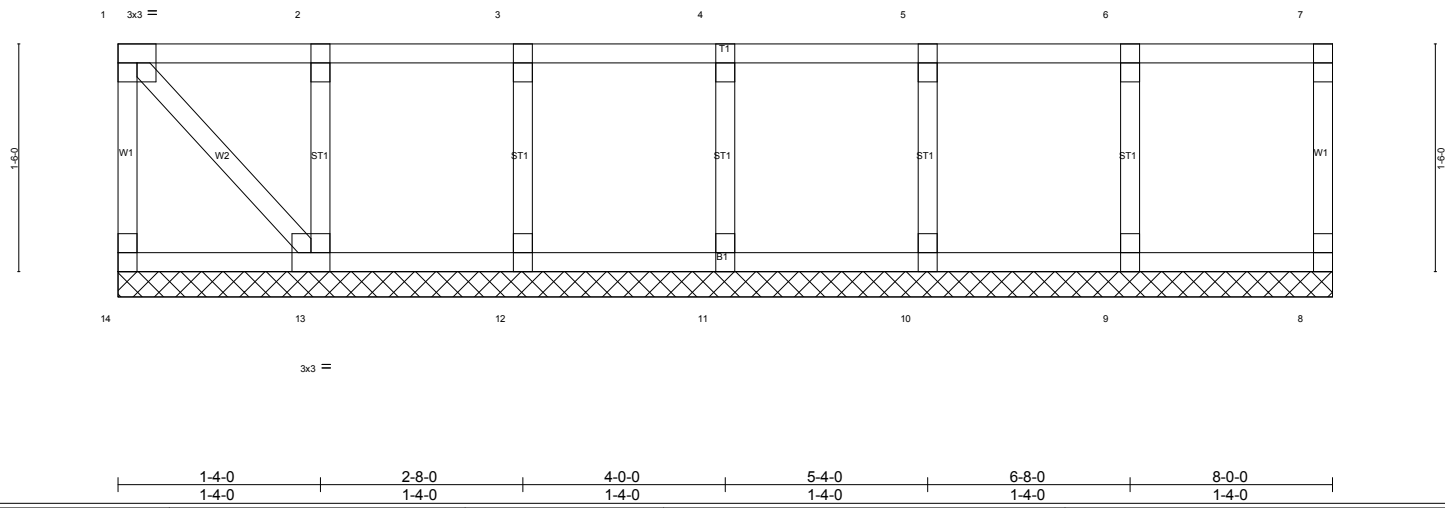
February 6, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE. 1109 Coastal Bay Boynton Beach, FL 33435</p>
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Job 460040	Truss FKW	Truss Type GABLE	Qty 9	Ply 1	6370210
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:10 2013 Page 1  
 ID:6aq2sa10tpgd9ExOR5qmmmezumY0-NVRoxY1w4tbOYiLNh6VOjuhzHuqWeWXpa9EN6?zns5F

Scale = 1:15.2



<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber Increase 1.00	WB 0.05	Vert(TL) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 13 n/a n/a		
	Code FBC2010/TPI2007			Weight: 39 lb	FT = 11%F, 11%E

**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)  
 OTHERS 2x4 SP No.3(flat)

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 8-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** All bearings 8-0-0.  
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

- NOTES** (8-10)
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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 SP, 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



February 6, 2013

Job 460040	Truss T01G	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional) 6370211
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:11 2013 Page 1  
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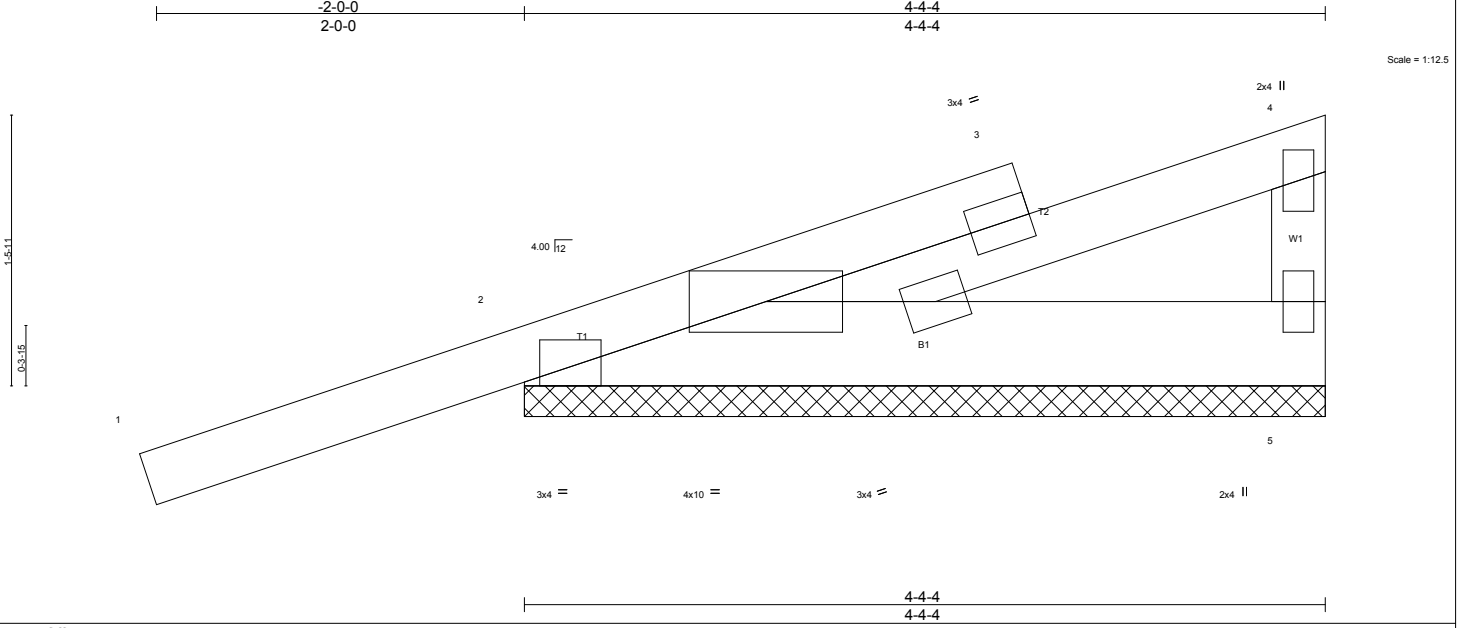


Plate Offsets (X,Y): [2:0-10-12,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.34	Vert(LL) 0.01 1 n/r 120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.05	Vert(TL) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 23 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins, except end verticals.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 5=92/4-4-4 (min. 0-1-8), 2=226/4-4-4 (min. 0-1-8)  
 Max Horz 2=105(LC 8)  
 Max Uplift 5=-64(LC 12), 2=-230(LC 8)  
 Max Grav 5=108(LC 2), 2=272(LC 2)

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

- NOTES** (10-12)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=24ft; 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
  - 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) Gable requires continuous bottom chord bearing.
  - 4) Gable studs spaced at 1-4-0 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) 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 64 lb uplift at joint 5 and 230 lb uplift at joint 2.
  - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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.
  - 11) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 12) 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



February 6, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE.          1109 Coastal Bay          Boynton Beach, FL 33435</p>
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Job 460040	Truss T02	Truss Type Monopitch Truss	Qty 8	Ply 1	Job Reference (optional)	16370212
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:12 2013 Page 1  
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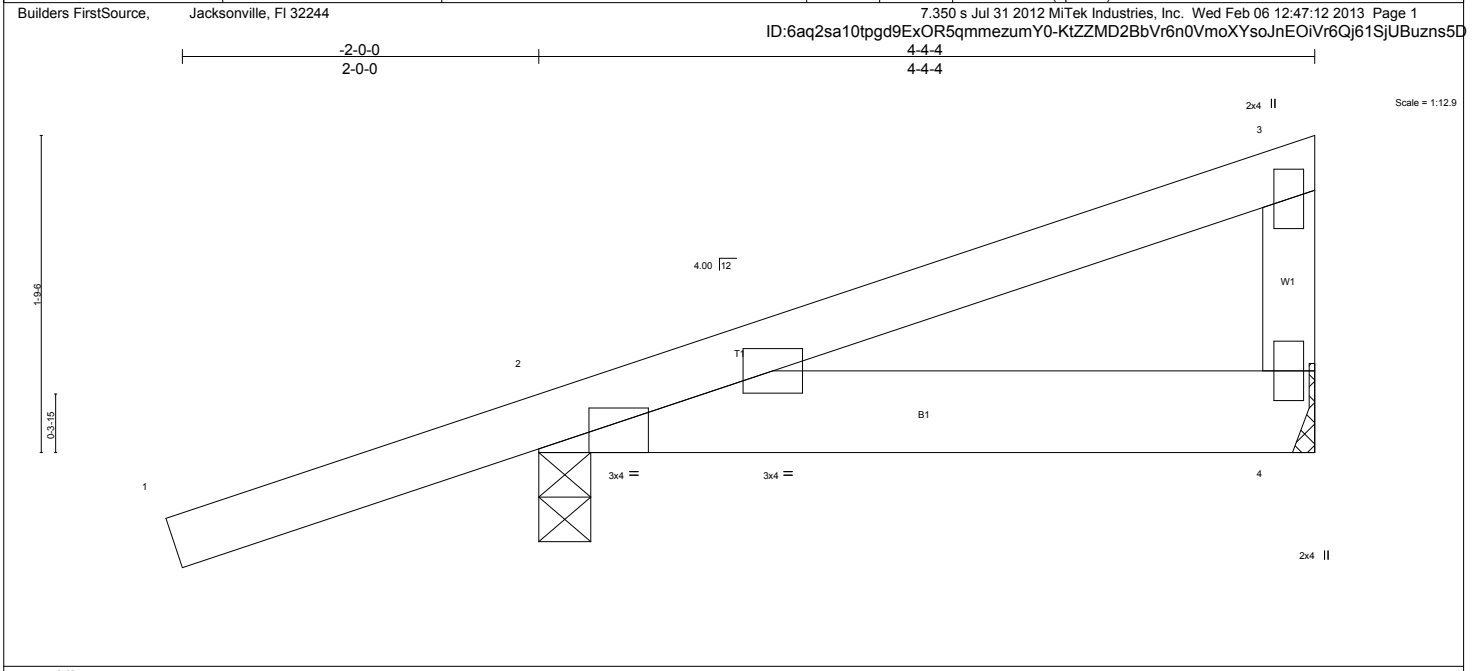


Plate Offsets (X,Y): [2:0-3-6,Edge]						
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190	
TCDL 7.0	Plates Increase 1.25	BC 0.08	Vert(LL) 0.01 2-4 >999 240			
BCLL 0.0 *	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.01 2-4 >999 180			
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 n/a n/a			
	Code FBC2010/TPI2007					Weight: 22 lb FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins, except end verticals.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 4=84/Mechanical, 2=232/0-3-8 (min. 0-1-8)  
 Max Horz 2=88(LC 8)  
 Max Uplift 4=73(LC 9), 2=-214(LC 8)  
 Max Grav 4=98(LC 2), 2=260(LC 2)

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

- NOTES** (7-10)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 4 and 214 lb uplift at joint 2.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) 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.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 10) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



February 6, 2013

Job 460040	Truss T03	Truss Type Monopitch Truss	Qty 3	Ply 1	Job Reference (optional) 6370213
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:13 2013 Page 1  
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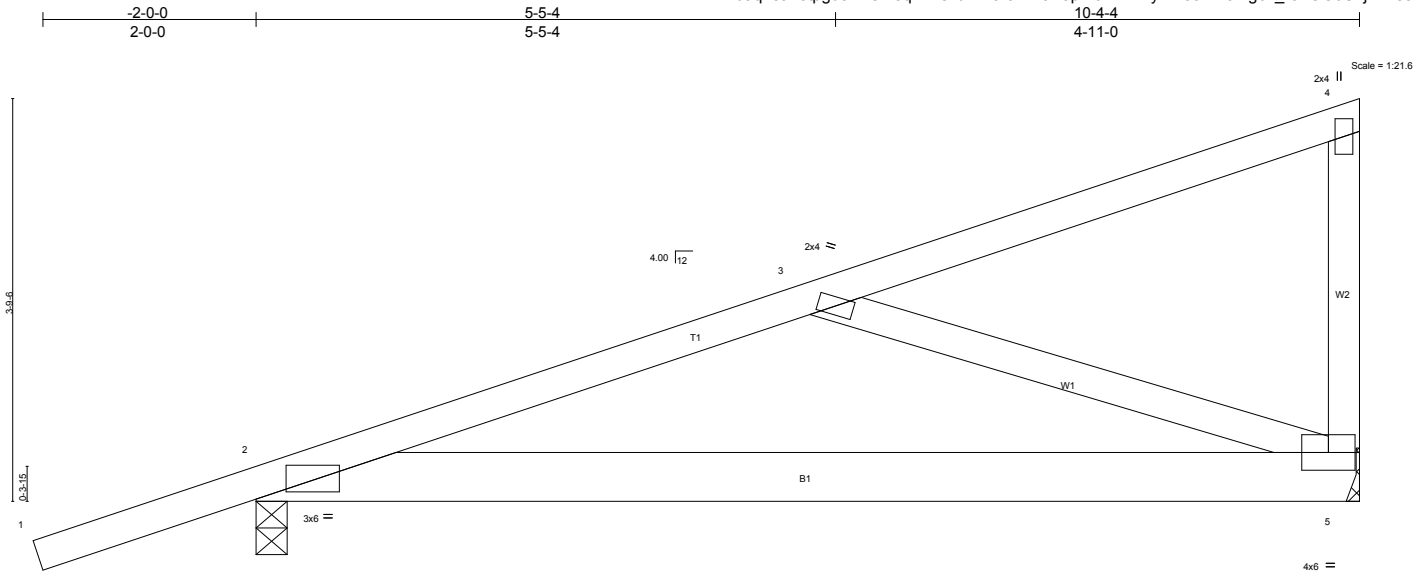


Plate Offsets (X,Y): [2:0-3-6,0-0-13]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.60	Vert(LL) 0.35 2-5 >344 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.47	Vert(TL) 0.31 2-5 >396 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(TL) -0.01 5 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 56 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 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 7-4-11 oc bracing.

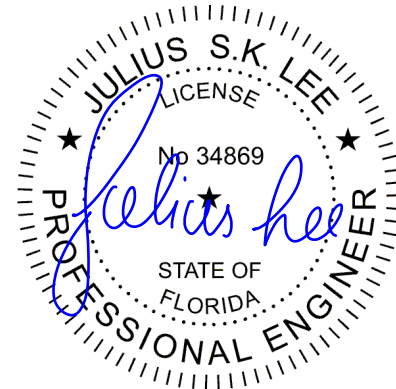
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 5=261/Mechanical, 2=379/0-3-8 (min. 0-1-8)  
 Max Horz 2=160(LC 8)  
 Max Uplift 5=-240(LC 8), 2=-323(LC 8)  
 Max Grav 5=309(LC 2), 2=453(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-596/517  
 BOT CHORD 2-5=-665/593  
 WEBS 3-5=-599/635

- NOTES** (7-10)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
  - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 5 and 323 lb uplift at joint 2.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) 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.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 10) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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, DSB-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 460040	Truss T04G	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional) 6370214
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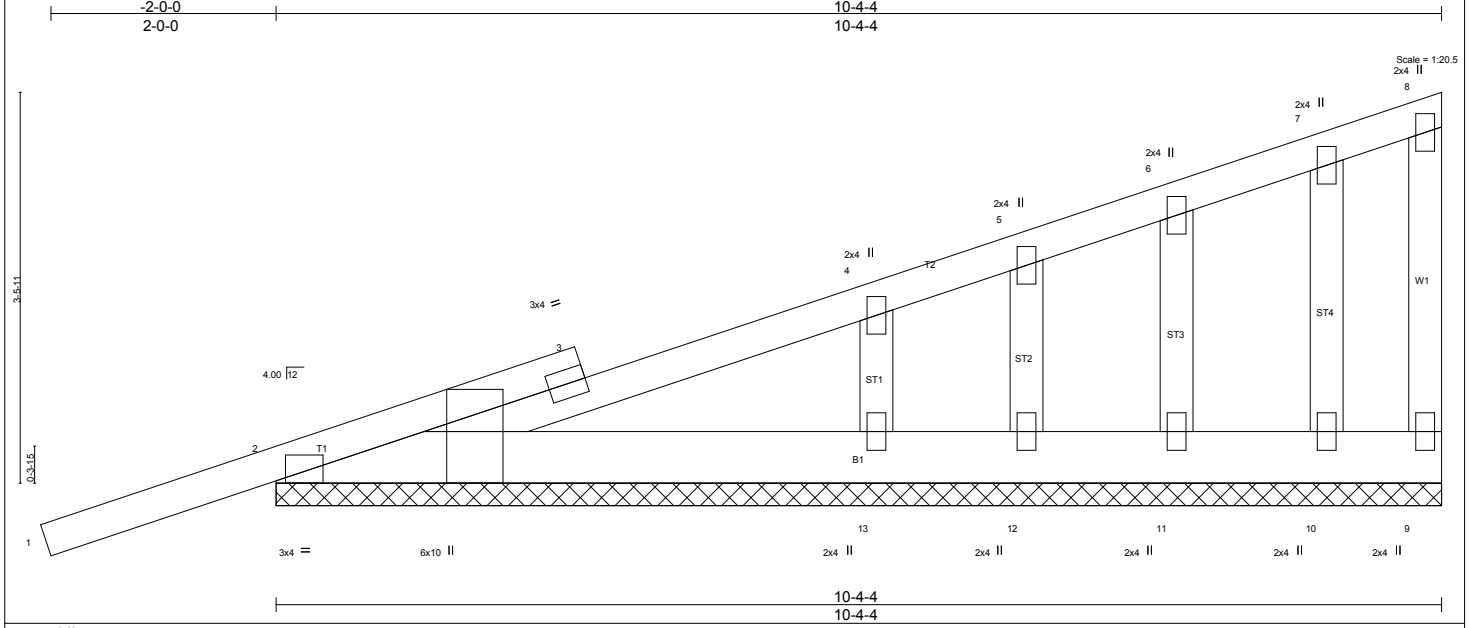


Plate Offsets (X,Y): [2:0-5-8,Edge], [2:0-10-12,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.08	Vert(LL) 0.01 1 n/r 120		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.08	Vert(TL) 0.01 1 n/r 120		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 9 n/a n/a		
	Code FBC2010/TPI2007			Weight: 60 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3  
 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 6-0-0 oc bracing.

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

**REACTIONS** All bearings 10-4-4.  
 (lb) - Max Horz 2=208(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 9, 12, 11, 10 except 2=210(LC 8), 13=181(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 9, 12, 11, 10 except 2=278(LC 2), 13=328(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 4-13=-334/262

- NOTES** (10-12)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 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) Gable requires continuous bottom chord bearing.
  - 4) Gable studs spaced at 1-4-0 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) 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) 9, 12, 11, 10 except (jt=lb) 2=210, 13=181.
  - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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.
  - 11) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 12) 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



February 6, 2013

Job 460040	Truss T05G	Truss Type GABLE	Qty 1	Ply 1	6370215
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Job Reference (optional)  
7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:15 2013 Page 1  
ID:6aq2sa10tpgd9ExOR5qmmmezumY0-kSEh\_F53uQDheTDLTg5ZQxPmDvXuJmcYjQx8oDzns5A

Builders FirstSource, Jacksonville, FL 32244

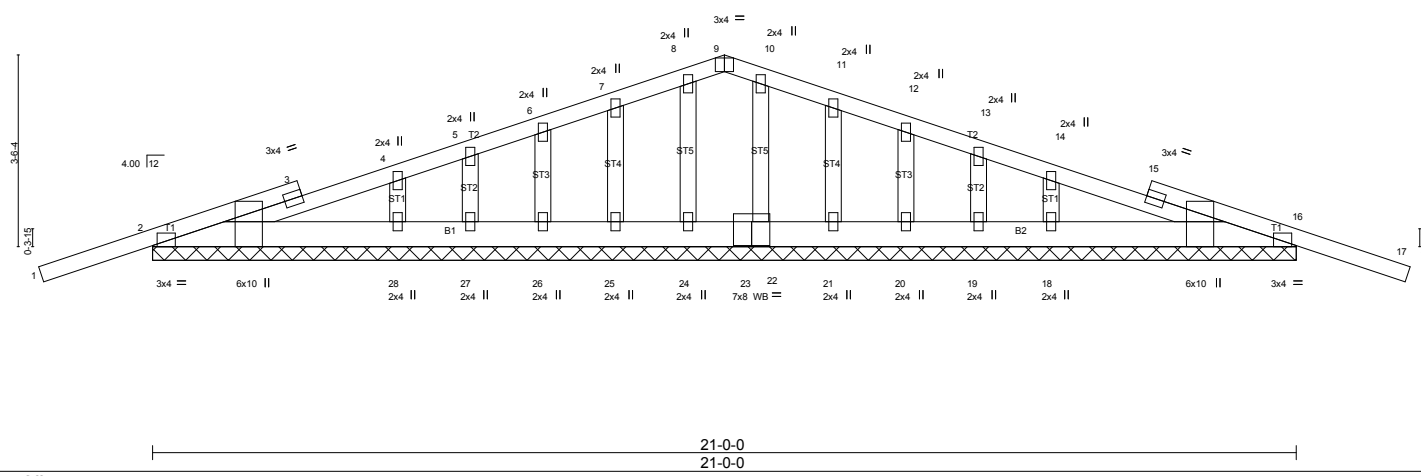
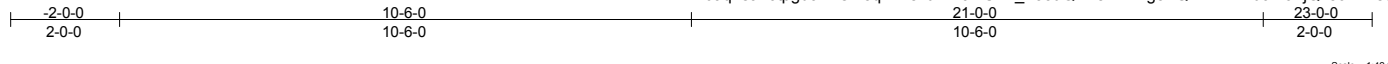


Plate Offsets (X,Y): [2:0-5-8,Edge], [2:0-10-12,Edge], [9:0-2-0,Edge], [16:0-5-8,Edge], [16:0-10-12,Edge], [23:0-4-0-0-4]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.06	Vert(LL) -0.02 17 n/r 120		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.06	Vert(TL) -0.03 17 n/r 120		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 16 n/a n/a		
	Code FBC2010/TPI2007			Weight: 118 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** All bearings 21-0-0.  
(lb) - Max Horz 2=87(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 24, 25, 26, 27, 22, 21, 20, 19 except 2=218(LC 8), 28=128(LC 12), 18=132(LC 13), 16=224(LC 9)  
Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 27, 28, 22, 21, 20, 19, 18 except 2=258(LC 27), 16=258(LC 28)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 4-28=252/175

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - 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) 24, 25, 26, 27, 22, 21, 20, 19 except (t=lb) 2=218, 28=128, 18=132, 16=224.
  - "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 SP, 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

February 6, 2013

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

Job 460040	Truss T06	Truss Type Common Truss	Qty 1	Ply 1	Job Reference (optional) 16370216
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:17 2013 Page 1  
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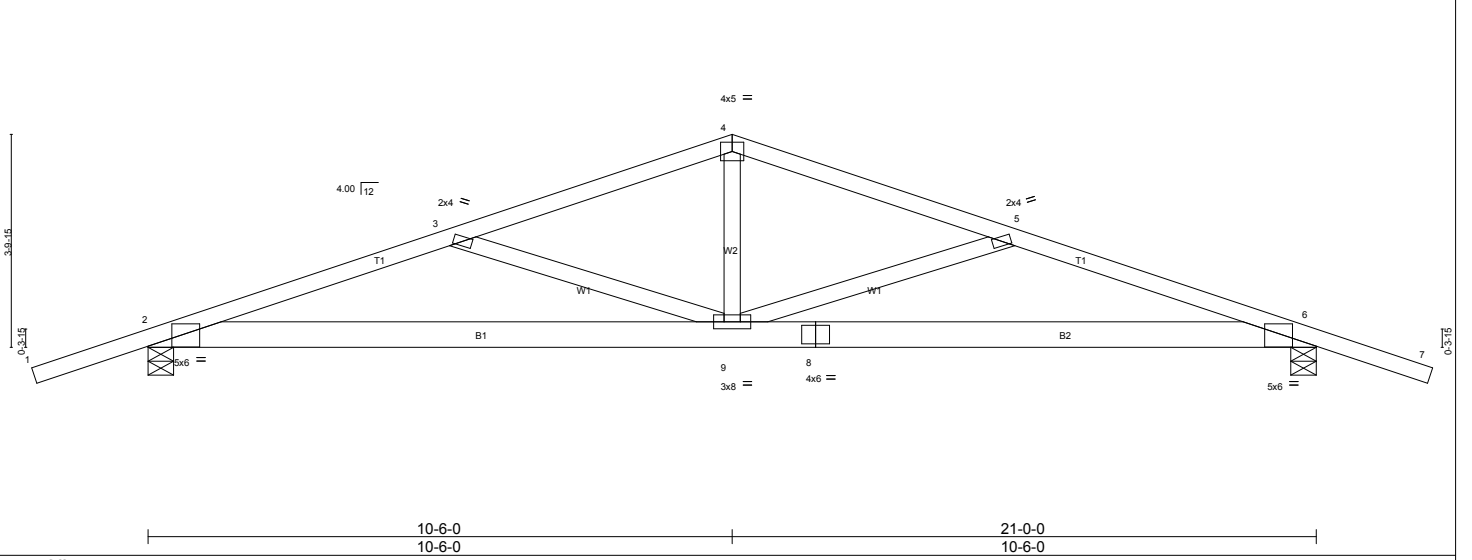


Plate Offsets (X,Y): [2-0-5-2,0-0-3], [6-0-5-2,0-0-3]	
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0
TCLL 20.0	Plates Increase 1.25
TCDL 7.0	Lumber Increase 1.25
BCLL 0.0 *	Rep Stress Incr YES
BCDL 5.0	Code FBC2010/TPI2007
<b>CSI</b>	<b>DEFL</b>
TC 0.46	in (loc) l/defl L/d
BC 0.34	Vert(LL) 0.10 6-9 >999 240
WB 0.31	Vert(TL) -0.16 6-9 >999 180
(Matrix)	Horz(TL) 0.03 6 n/a n/a
	<b>PLATES</b> MT20
	<b>GRIP</b> 244/190
	Weight: 108 lb FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 8-4-8 oc bracing.
WEBS 2x4 SP No.3	

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

**REACTIONS** (lb/size) 2=655/0-5-8 (min. 0-1-8), 6=655/0-5-8 (min. 0-1-8)  
 Max Horz 2=56(LC 8)  
 Max Uplift 2=-302(LC 8), 6=-302(LC 9)  
 Max Grav 2=780(LC 2), 6=780(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1702/1016, 3-4=-1206/679, 4-5=-1206/679, 5-6=-1702/1016  
 BOT CHORD 2-9=-845/1579, 8-9=-868/1622, 6-8=-868/1622  
 WEBS 4-9=-191/463, 5-9=-533/441, 3-9=-534/442

- 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; TC DL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; 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) 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) 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 (jt=lb) 2=302, 6=302.
  - 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 SP, 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

February 6, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE.          1109 Coastal Bay          Boynton Beach, FL 33435</p>
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
460040	T07	Monopitch Truss	9	1	

16370217

Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:18 2013 Page 1  
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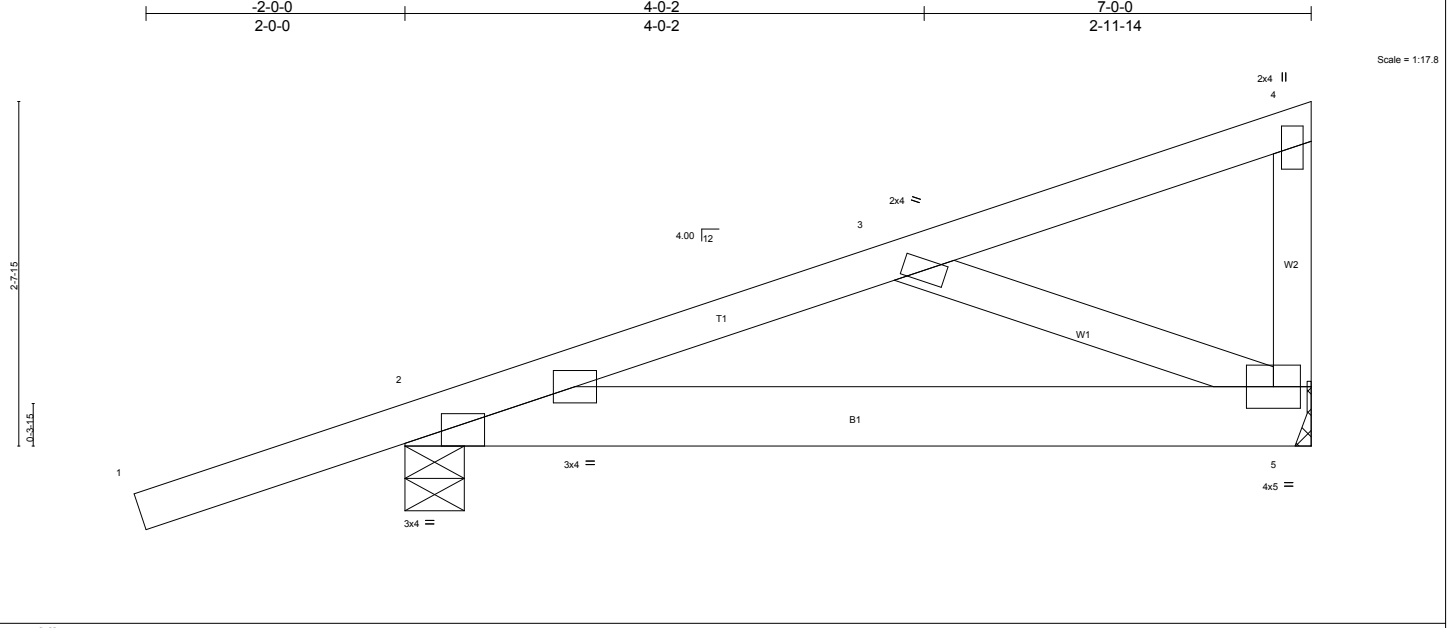


Plate Offsets (X,Y): [2:0-3-6,Edge]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.15	Vert(LL) -0.03 2-5 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.12	Vert(TL) -0.05 2-5 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 5 n/a n/a		
	Code FBC2010/TPI2007			Weight: 38 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 5=162/Mechanical, 2=296/0-5-8 (min. 0-1-8)  
 Max Horz 2=119(LC 8)  
 Max Uplift 5=-76(LC 12), 2=-179(LC 8)  
 Max Grav 5=191(LC 2), 2=356(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=408/216  
 BOT CHORD 2-5=309/415  
 WEBS 3-5=446/332

- NOTES** (7-10)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; 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
  - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=179.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) 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.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 10) Use Simpson HTU26 to attach Truss to Carrying member

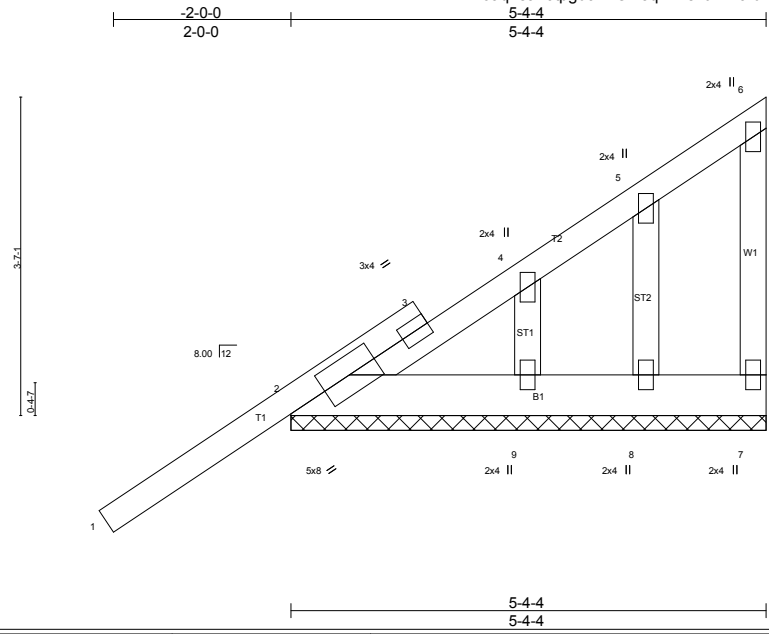
**LOAD CASE(S)** Standard



February 6, 2013

Job 460040	Truss T08G	Truss Type GABLE	Qty 1	Ply 1	6370218
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:19 2013 Page 1  
 ID:6aq2sa10tpgd9ExOR5qmmezumY0-dEUCqd8ayek675X6iVAVbnZRpxuYFao8e2vLx\_zns56



<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.43 BC 0.01 WB 0.04 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.02 1 n/r 120 Vert(TL) 0.00 1 n/r 120 Horz(TL) 0.00 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 36 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

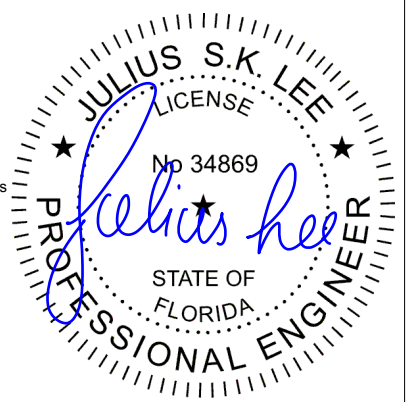
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** All bearings 5-4-4.  
 (lb) - Max Horz 2=223(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 7, 9, 8 except 2=107(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 7, 2, 9, 8

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

- NOTES** (10-12)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=24ft; Cat. II; Exp C; Encl.; GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 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) Gable requires continuous bottom chord bearing.
  - 4) Gable studs spaced at 1-4-0 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) 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) 7, 9, 8 except (jt=lb) 2=107.
  - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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.
  - 11) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 12) Truss Design Engineer: Julius Lee, PE; Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

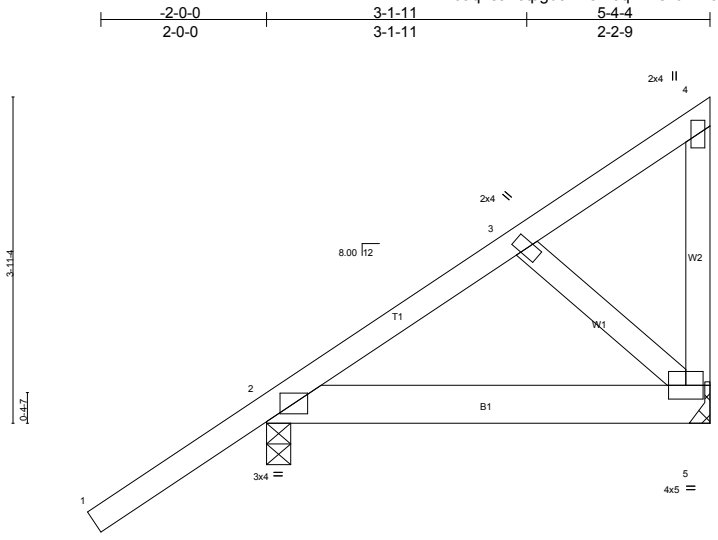
**LOAD CASE(S)** Standard



February 6, 2013

Job 460040	Truss T09	Truss Type MONOPITCH TRUSS	Qty 9	Ply 1	Job Reference (optional) 6370219
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:19 2013 Page 1  
 ID:6aq2sa10tpgd9ExOR5qmmmezumY0-dEUCqd8ayek675X6iVAVbnZQ7XsiFaU8e2vLx\_zns56



<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.47 BC 0.13 WB 0.06 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.03 2-5 >999 240 Vert(TL) 0.03 2-5 >999 180 Horz(TL) 0.00 5 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 34 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size) 5=115/Mechanical, 2=256/0-3-8 (min. 0-1-8)  
 Max Horz 2=164(LC 12)  
 Max Uplift 5=-111(LC 9), 2=-89(LC 9)  
 Max Grav 5=136(LC 2), 2=309(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-5=-261/130

- NOTES** (7-10)
- 1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (it=lb) 5=111.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 7) 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.
  - 8) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
  - 9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 10) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



February 6, 2013

Job 460040	Truss T10G	Truss Type GABLE	Qty 1	Ply 1	6370220
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7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:21 2013 Page 1  
 ID:6aq2sa10tpgd9ExOR5qmmezumY0-ZcczF19qUG\_qNOhVqwCzgCenyKaNjUGR6MOS?szns54

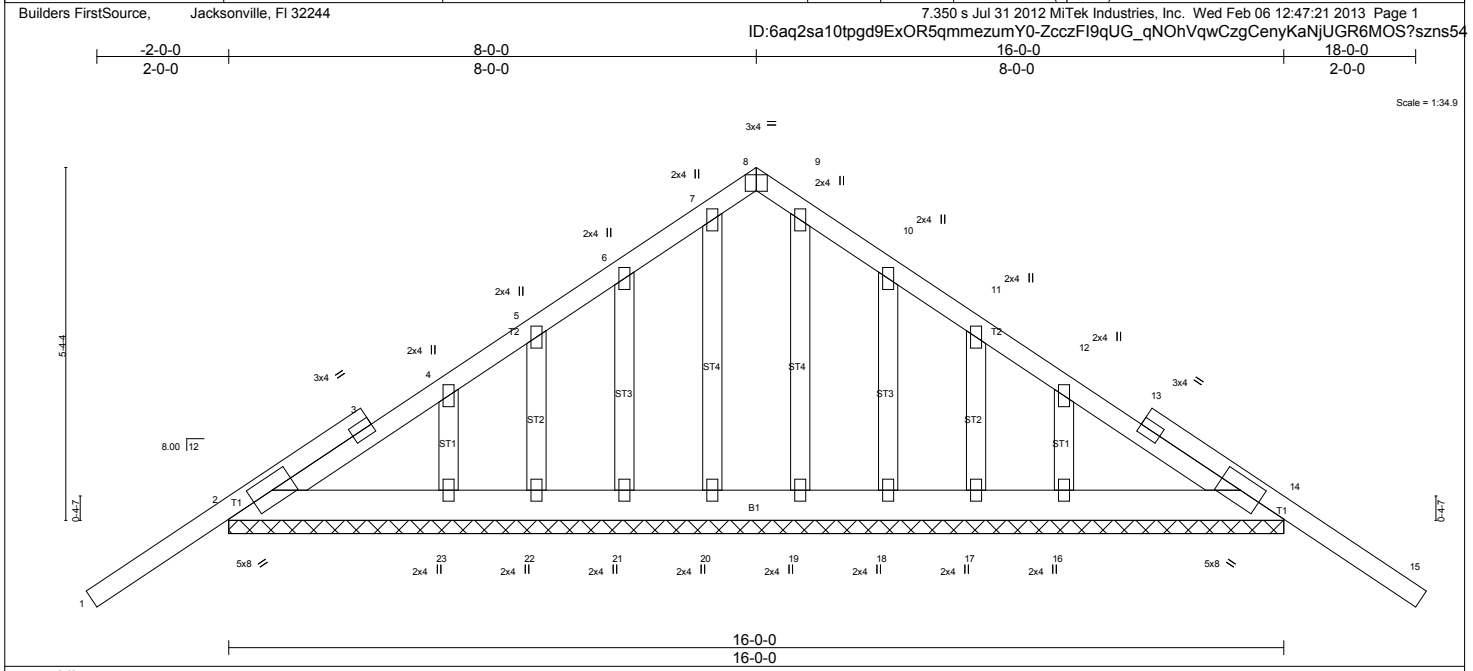


Plate Offsets (X,Y): [8:0-2:0,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.38	Vert(LL) -0.03 15 n/r 120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.06	Vert(TL) -0.04 15 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.00 14 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 113 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 OTHERS 2x4 SP No.3

**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.

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

**REACTIONS** All bearings 16-0-0.  
 (lb) - Max Horz 2=176(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 22, 23, 18, 17, 16 except 2=102(LC 12), 14=115(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 19, 18, 17, 16

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

- NOTES** (11-13)
- 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=24ft; 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - 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) 20, 21, 22, 23, 18, 17, 16 except (it=lb) 2=102, 14=115.
  - "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 SP, represents new lumber design values as per SPIIB.
  - 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

February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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, DSB-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 460040	Truss T11	Truss Type Common Truss	Qty 2	Ply 1	Job Reference (optional) 16370221
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Builders FirstSource, Jacksonville, FL 32244

7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:22 2013 Page 1  
ID:6aq2sa10tpgd9ExOR5qmmezumY0-1pALTeASFZ6h\_YGhOejCCQBsLkrTSwLaL080YJzns53

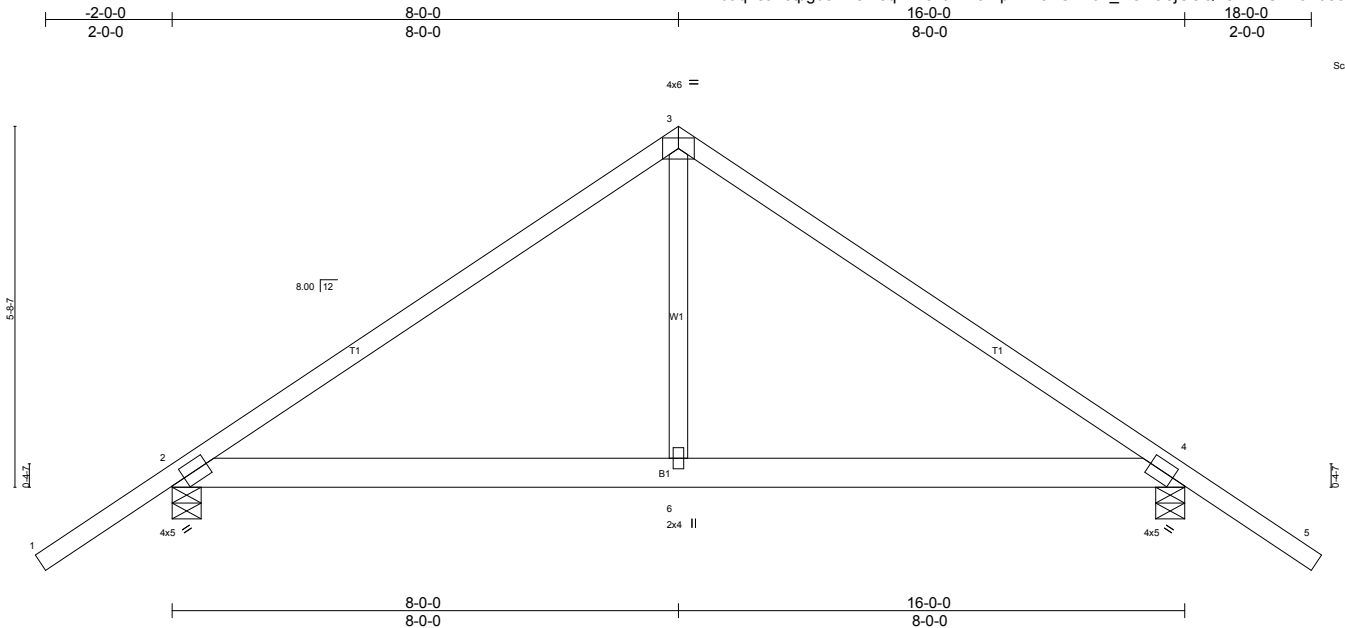


Plate Offsets (X,Y): [2:0-2-12,0-2-0], [4:0-2-12,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.79	Vert(LL) -0.06 4-6 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.32	Vert(TL) -0.09 4-6 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(TL) 0.01 4 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 81 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SYP No.2  
WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-6-2 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS**

(lb/size) 2=521/0-5-8 (min. 0-1-8), 4=521/0-5-8 (min. 0-1-8)  
Max Horz 2=143(LC 9)  
Max Uplift 2=-180(LC 12), 4=-180(LC 13)  
Max Grav 2=622(LC 2), 4=622(LC 2)

**FORCES**

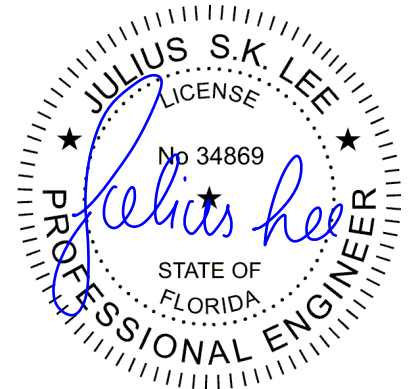
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-775/276, 3-4=-775/276  
BOT CHORD 2-6=-31/503, 4-6=-31/503  
WEBS 3-6=-2/294

**NOTES** (8-10)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; 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
- 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.
- 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 (jt=lb) 2=180, 4=180.
- "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 SP, 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



February 6, 2013

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

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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, DSB-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 460040	Truss T12G	Truss Type GABLE	Qty 1	Ply 2	Job Reference (optional) 6370222
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:24 2013 Page 1  
 ID:6aq2sa10tpgd9ExOR5qmmezumY0-zBH5tKcinBMPEsP3V3lgHrGCJYRCwhjtoKd6cBzns5

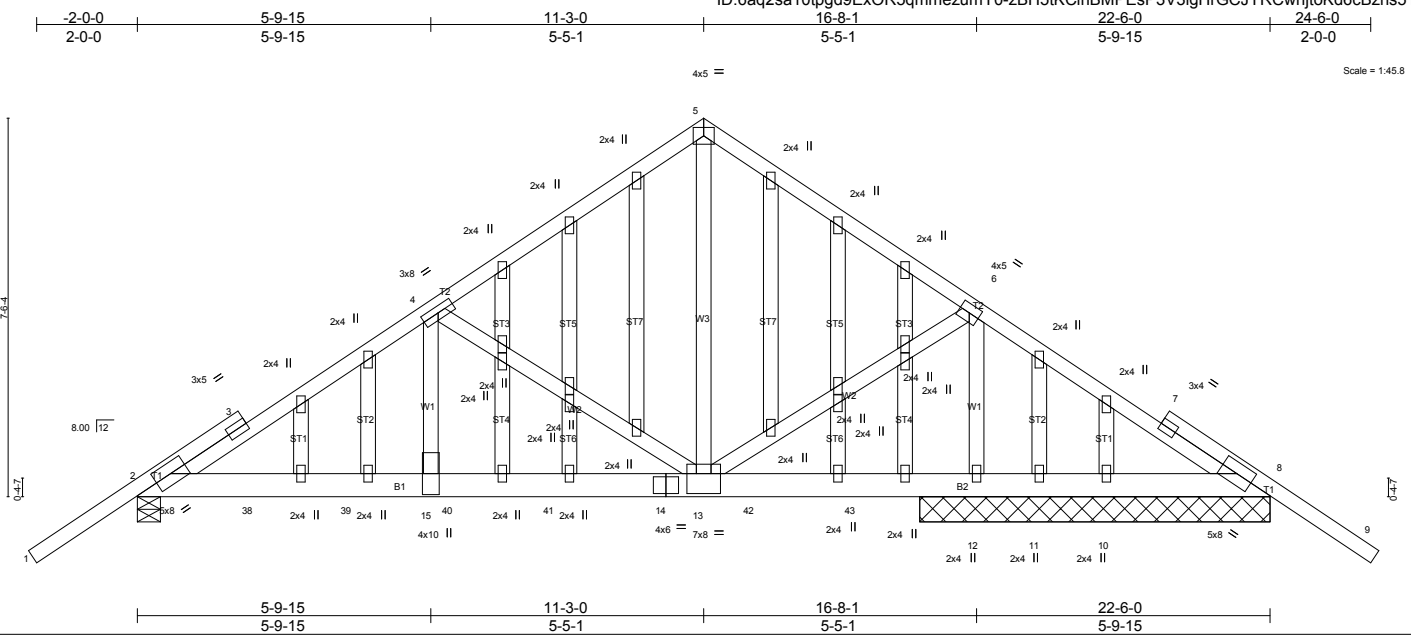


Plate Offsets (X,Y): [13:0-4-0-0-4-12]

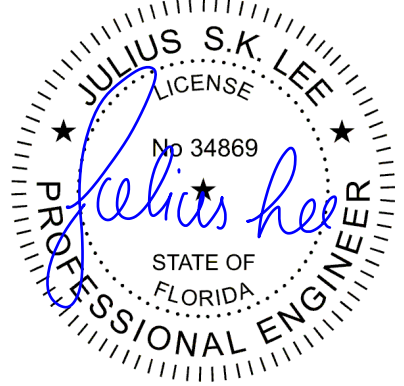
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.75	Vert(LL) -0.10 2-15 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.70	Vert(TL) -0.18 2-15 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.02 12 n/a n/a		
	Code FBC2010/TPI2007			Weight: 391 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2 *Except* T2: 2x4 SYP No.1	TOP CHORD Structural wood sheathing directly applied or 4-3-1 oc purlins.
BOT CHORD 2x6 SYP No.2 *Except* B1: 2x6 SYP SS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS** All bearings 6-11-8 except (jt=length) 2=0-5-8.  
 (lb) - Max Horz 2=247(LC 5)  
 Max Uplift All uplift 100 lb or less at joint(s) 10 except 8=365(LC 21), 12=1786(LC 9),  
 2=-1251(LC 8), 11=-1322(LC 2)  
 Max Grav All reactions 250 lb or less at joint(s) 8, 10 except 12=5967(LC 2), 2=4058(LC 2),  
 11=364(LC 9)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-5850/1646, 3-4=-5806/1668, 4-5=-2650/823, 5-6=-2633/835, 6-7=-317/1010, 7-8=-344/903  
 BOT CHORD 2-38=-1447/4910, 38-39=-1447/4910, 15-39=-1447/4910, 15-40=-1447/4910, 40-41=-1447/4910,  
 14-41=-1447/4910, 13-14=-1447/4910, 13-42=-786/426, 42-43=-786/426, 12-43=-786/426,  
 11-12=-786/426, 10-11=-786/426, 8-10=-786/426  
 WEBS 5-13=-742/2631, 6-13=-999/3456, 6-12=-4089/1316, 4-13=-3329/1133, 4-15=-798/3110

- NOTES** (14-16)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - 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) 8=365, 12=1786, 2=-1251, 11=1322.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.



February 6, 2013

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
460040	T12G	GABLE	1	2	

16370222

Builders FirstSource, Jacksonville, FL 32244

7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:25 2013 Page 2  
 ID:6aq2sa10tgd9ExOR5qmmezumY0-RNrT5gCLXUUGr0\_G3mHvq2pN3xnRf8z11\_Mg8ezns50

**NOTES** (14-16)

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1027 lb down and 282 lb up at 2-3-0, 1027 lb down and 282 lb up at 4-3-0, 1027 lb down and 282 lb up at 6-3-0, 1027 lb down and 282 lb up at 8-3-0, 995 lb down and 273 lb up at 10-3-0, and 995 lb down and 273 lb up at 12-3-0, and 995 lb down and 273 lb up at 14-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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.
- 15) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 16) 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

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
  - Uniform Loads (plf)
    - Vert: 1-5=-44, 5-9=-44, 2-8=-10
  - Concentrated Loads (lb)
    - Vert: 14=-936(B) 38=-966(B) 39=-966(B) 40=-966(B) 41=-966(B) 42=-936(B) 43=-936(B)

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

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

Job 460040	Truss T13G	Truss Type GABLE	Qty 1	Ply 1	6370223
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:27 2013 Page 1  
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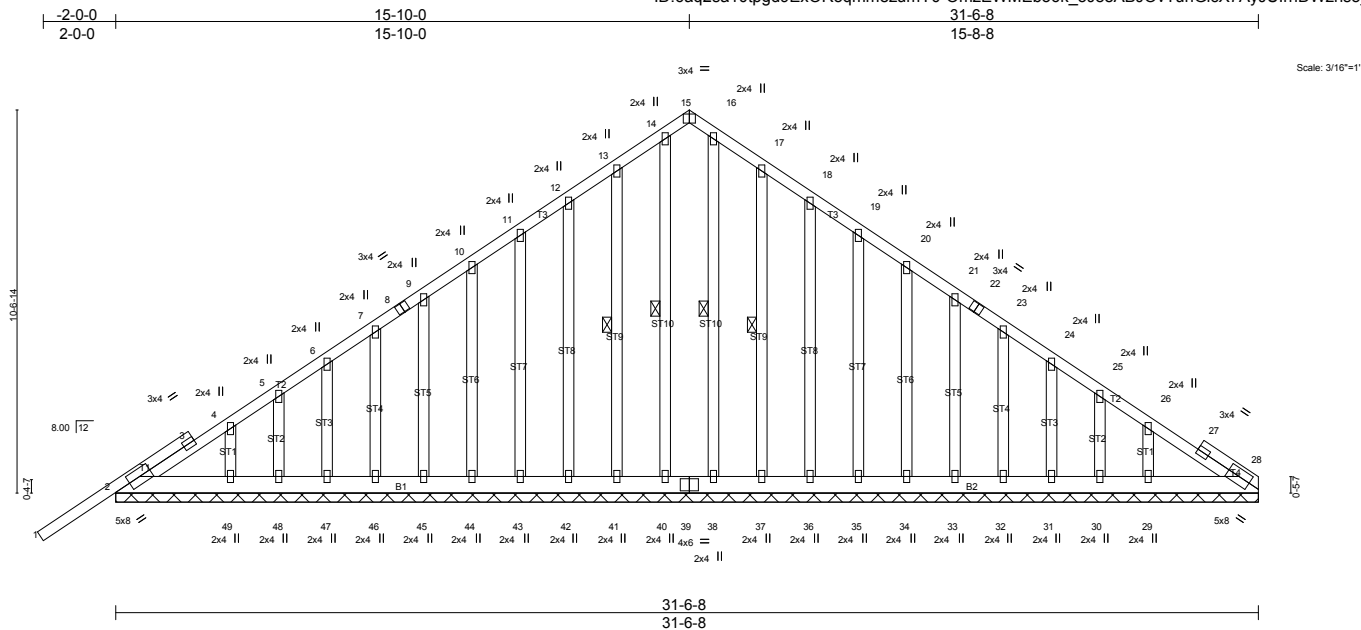


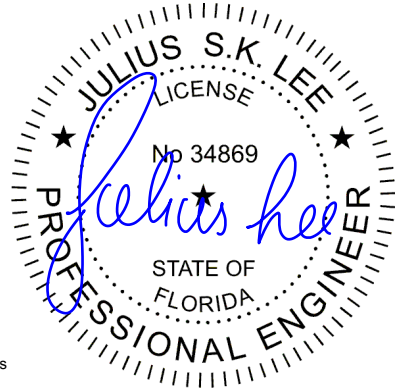
Plate Offsets (X,Y): [15:0-2-0,Edge]							
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>		
TCLL 20.0	2-1-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190		
TCDL 7.0	Plates Increase 1.25	BC 0.07	Vert(LL) 0.00 1 n/r 120				
BCLL 0.0 *	Lumber Increase 1.25	WB 0.16	Horz(TL) -0.02 1 n/r 120				
BCDL 5.0	Rep Stress Incr NO	(Matrix)	0.01 28 n/a n/a				
	Code FBC2010/TPI2007					Weight: 299 lb FT = 20%	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x6 SYP No.2	(Switched from sheeted: Spacing > 2-0-0)
OTHERS 2x4 SP No.3	Rigid ceiling directly applied or 10-0-0 oc bracing.
	WEBS 1 Row at midpt 14-40, 13-41, 16-38, 17-37
	JOINTS 1 Brace at Jt(s): 15

**REACTIONS** All bearings 31-6-8.  
 (lb) - Max Horz 2=383(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 28, 2, 40, 41, 42, 43, 44, 45, 46, 47, 49, 36, 35, 34, 33, 32, 31, 30 except 48=106(LC 12), 37=101(LC 13), 29=125(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 28, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29 except 2=260(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=364/230, 3-4=355/248, 4-5=308/213, 13-14=214/252, 16-17=214/252, 26-27=326/241, 27-28=333/226  
 BOT CHORD 2-49=229/326, 48-49=229/326, 47-48=229/326, 46-47=229/326, 45-46=229/326, 44-45=229/326, 43-44=229/326, 42-43=229/326, 41-42=229/326, 40-41=229/326, 39-40=229/326, 38-39=229/326, 37-38=229/326, 36-37=229/326, 35-36=229/326, 34-35=229/326, 33-34=229/326, 32-33=229/326, 31-32=229/326, 30-31=229/326, 29-30=229/326, 28-29=229/326

- NOTES** (12-14)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - 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) 28, 2, 40, 41, 42, 43, 44, 45, 46, 47, 49, 36, 35, 34, 33, 32, 31, 30 except (jt=lb) 48=106, 37=101, 29=125.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
  - 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 SP, 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

February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 460040	Truss T14	Truss Type COMMON TRUSS	Qty 4	Ply 1	Job Reference (optional) 16370224
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:28 2013 Page 1  
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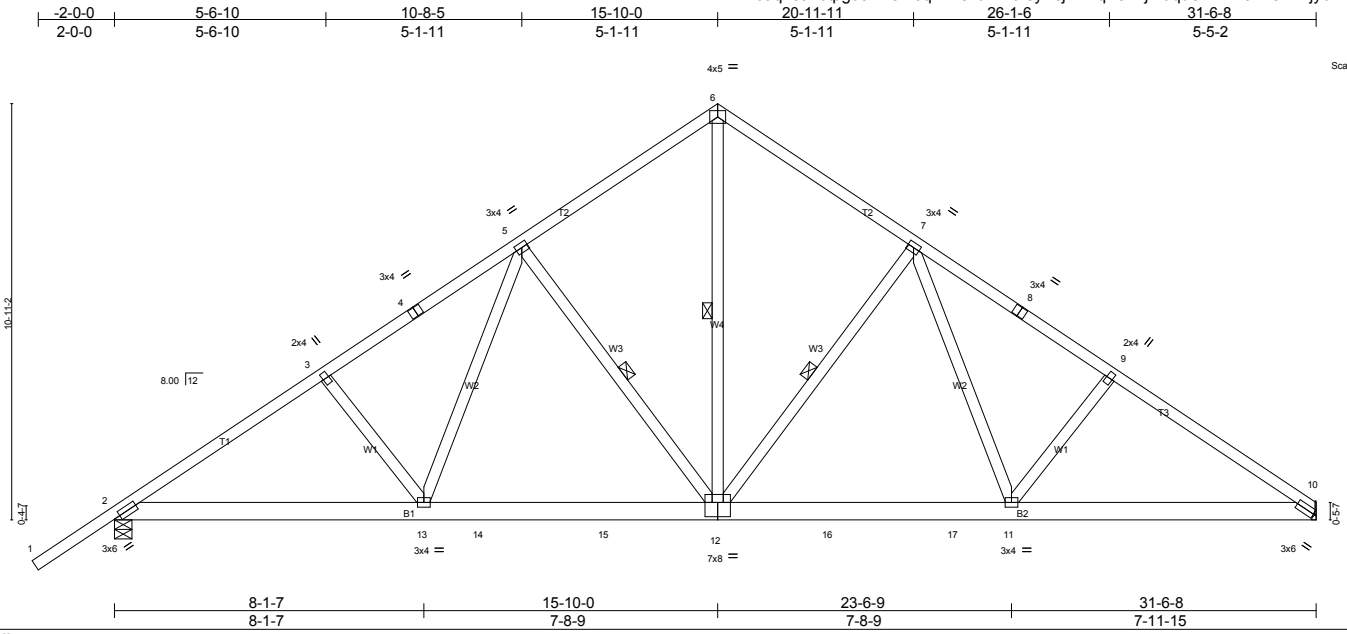


Plate Offsets (X,Y): [2:0-2-0,0-1-8], [12:0-4-0,0-4-8]	
<b>LOADING</b> (psf)	<b>SPACING</b> 2-1-0
TCLL 20.0	Plates Increase 1.25
TCDL 7.0	Lumber Increase 1.25
BCLL 0.0 *	Rep Stress Incr NO
BCDL 5.0	Code FBC2010/TPI2007
<b>CSI</b>	<b>DEFL</b>
TC 0.59	in (loc) l/defl L/d
BC 0.29	Vert(LL) 0.09 12-13 >999 240
WB 0.42	Vert(TL) -0.15 12-13 >999 180
(Matrix)	Horz(TL) 0.04 10 n/a n/a
	<b>PLATES</b> MT20
	<b>GRIP</b> 244/190
	Weight: 208 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD 2-0-0 oc purlins (3-4-0 max.)  
 (Switched from sheeted: Spacing > 2-0-0).  
 Rigid ceiling directly applied or 9-11-3 oc bracing.  
 BOT CHORD 1 Row at midpt 6-12, 7-12, 5-12  
 WEBS 6-12, 7-12, 5-12  
 JOINTS 1 Brace at Jt(s): 6

**REACTIONS** (lb/size) 2=1091/0-5-8 (min. 0-1-15), 10=977/Mechanical  
 Max Horz 2=316(LC 9)  
 Max Uplift 2=324(LC 12), 10=272(LC 13)  
 Max Grav 2=1176(LC 2), 10=1058(LC 22)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2299/844, 3-4=-2148/845, 4-5=-2041/859, 5-6=-1595/736, 6-7=-1595/735, 7-8=-2040/884,  
 8-9=-2160/861, 9-10=-2313/871  
 BOT CHORD 2-13=-591/1785, 13-14=-378/1397, 14-15=-378/1397, 12-15=-378/1397, 12-16=-385/1400,  
 16-17=-385/1400, 11-17=-385/1400, 10-11=-624/1808  
 WEBS 6-12=-606/1324, 7-12=-707/405, 7-11=-196/502, 9-11=-399/291, 5-12=-702/392, 5-13=-165/487,  
 3-13=-374/265

- NOTES** (9-12)
- 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=24ft; Cat. II; Exp C; Encl., GCpi=0.18; 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
  - 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 (it=lb) 2=324, 10=272.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
  - 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 SP, represents new lumber design values as per SPIIB.
  - 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

February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 460040	Truss T15	Truss Type Common Truss	Qty 3	Ply 1	Job Reference (optional) 6370225
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:30 2013 Page 1  
 ID:6aq2sa10pgd9ExOR5qmmmezumY0-oLeM8NGTM16ZyntDsJs5X6WlgycVKTomAG4Rprzns4x

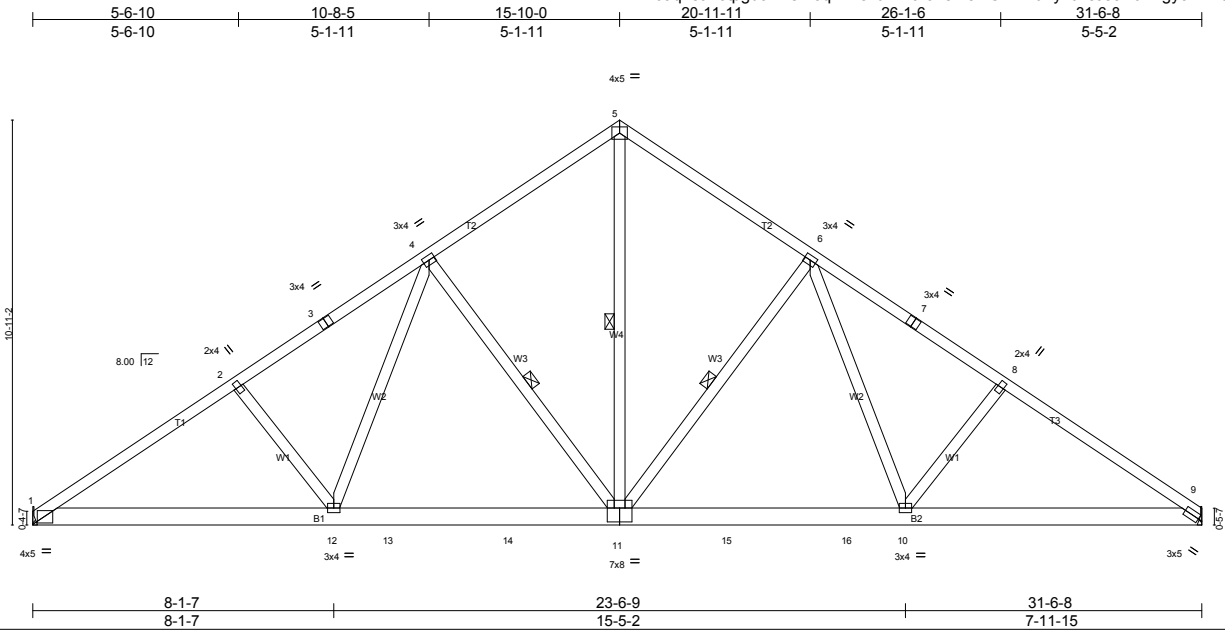


Plate Offsets (X,Y): [1:0-2-8,0-2-3], [11:0-4-0,0-4-8]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.45	Vert(LL) 0.09 11 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.25	Vert(TL) -0.15 11-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.41	Horz(TL) 0.04 9 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 204 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 9-11-5 oc bracing.  
 WEBS 1 Row at midpt 5-11, 6-11, 4-11

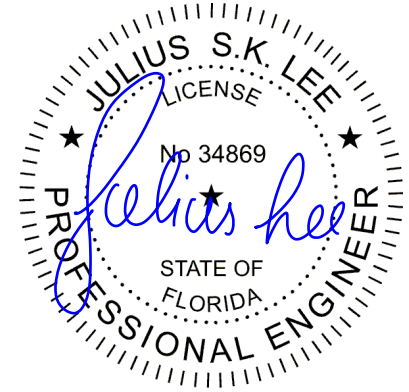
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 1=946/Mechanical, 9=947/Mechanical  
 Max Horz 1=-278(LC 10)  
 Max Uplift 1=-264(LC 12), 9=-263(LC 13)  
 Max Grav 1=1024(LC 21), 9=1023(LC 22)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2260/858, 2-3=-2109/847, 3-4=-1994/869, 4-5=-1546/718, 5-6=-1546/718, 6-7=-1973/861, 7-8=-2088/839, 8-9=-2235/848  
 BOT CHORD 1-12=-623/1781, 12-13=-383/1364, 13-14=-383/1364, 11-14=-383/1364, 11-15=-380/1356, 15-16=-380/1356, 10-16=-380/1356, 9-10=-610/1748  
 WEBS 5-11=-593/1287, 6-11=-678/389, 4-11=-692/394, 6-10=-188/482, 8-10=-382/279, 4-12=-198/507, 2-12=-411/290

- NOTES** (8-11)
- 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=24ft; Cat. II; Exp C; Encl.; GCpi=0.18; 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
  - 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 (jt=lb) 1=264, 9=263.
  - "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 SP, 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



February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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, DSB-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 460040	Truss T15A	Truss Type COMMON TRUSS	Qty 3	Ply 1	Job Reference (optional) 6370226
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:31 2013 Page 1  
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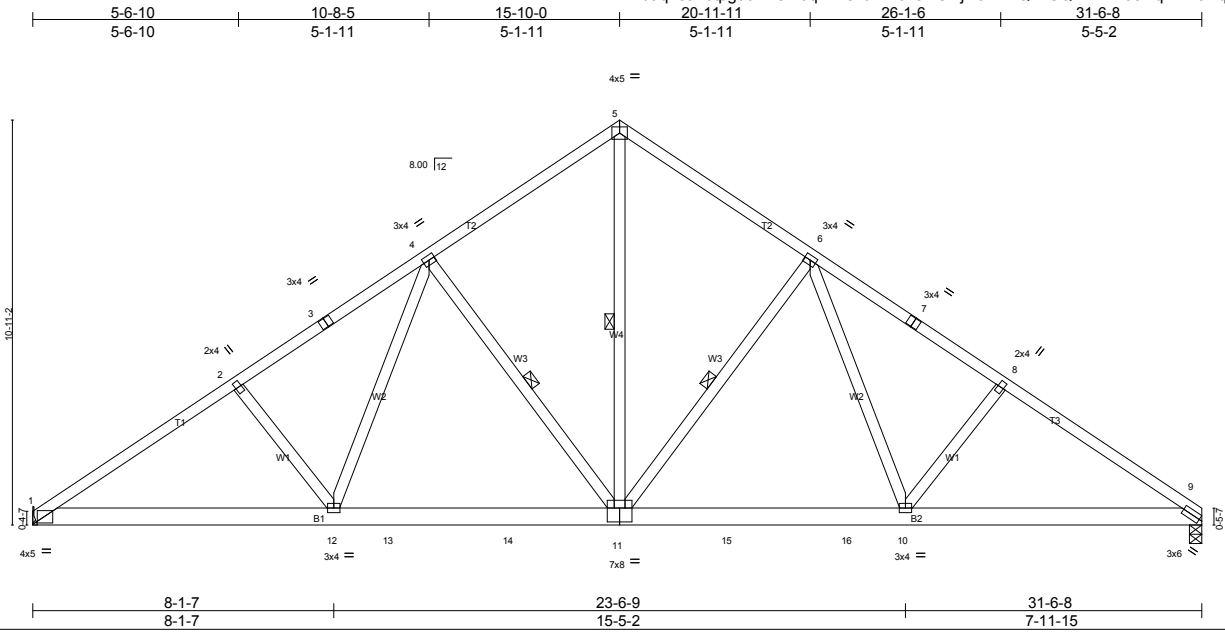


Plate Offsets (X,Y): [1:0-2-8,0-2-3], [11:0-4-0,0-4-8]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-1-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.61	Vert(LL) 0.09 11 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.28	Vert(TL) -0.15 11-12 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.42	Horz(TL) 0.04 9 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 204 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (3-3-3 max.)
BOT CHORD 2x6 SYP No.2	(Switched from sheeted: Spacing > 2-0-0).
WEBS 2x4 SP No.3	Rigid ceiling directly applied or 9-9-2 oc bracing.
	WEBS 1 Row at midpt 5-11, 6-11, 4-11
	JOINTS 1 Brace at Jt(s): 5

**REACTIONS** (lb/size) 1=982/Mechanical, 9=984/0-4-0 (min. 0-1-12)  
 Max Horz 1=290(LC 11)  
 Max Uplift 1=-274(LC 12), 9=-273(LC 13)  
 Max Grav 1=1063(LC 21), 9=1062(LC 22)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2346/891, 2-3=-2188/879, 3-4=-2068/902, 4-5=-1601/744, 5-6=-1602/745, 6-7=-2028/887,  
 7-8=-2148/864, 8-9=-2297/872  
 BOT CHORD 1-12=-646/1848, 12-13=-396/1414, 13-14=-396/1414, 11-14=-396/1414, 11-15=-390/1398,  
 15-16=-390/1398, 10-16=-390/1398, 9-10=-621/1784  
 WEBS 5-11=-614/1331, 6-11=-694/401, 4-11=-721/411, 6-10=-188/480, 8-10=-374/280, 4-12=-207/528,  
 2-12=-428/303

- NOTES** (9-12)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; 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) 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 (it=lb) 1=274, 9=273.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
  - 9) 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.
  - 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIIB.
  - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
  - 12) Use Simpson HTU26 to attach Truss to Carrying member

**LOAD CASE(S)** Standard



February 6, 2013

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

Job 460040	Truss T16G	Truss Type GABLE	Qty 1	Ply 1	6370227
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:33 2013 Page 1  
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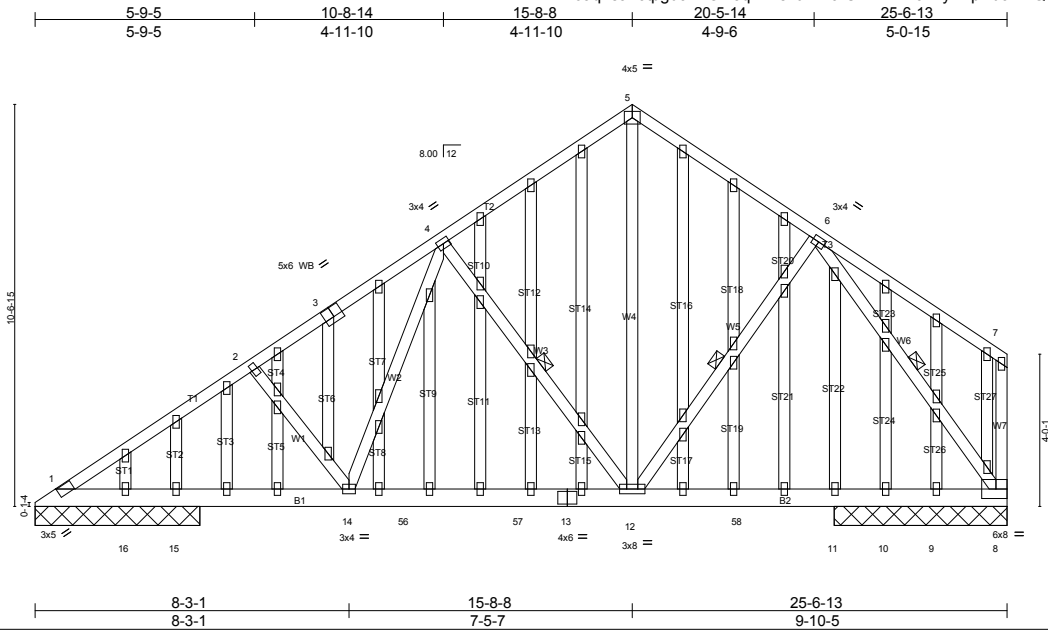


Plate Offsets (X,Y): [3-0-3-0-0-3-4]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-1-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.28	Vert(LL) -0.06 12-14 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.78	Vert(TL) -0.10 12-14 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.02 8 n/a n/a		
	Code FBC2010/TPI2007			Weight: 311 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (4-3-13 max.), except end verticals
BOT CHORD 2x6 SYP No.2	(Switched from sheeted: Spacing > 2-0-0).
WEBS 2x4 SP No.3	Rigid ceiling directly applied or 9-5-3 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 4-12, 6-12, 6-8
	JOINTS 1 Brace at Jt(s): 5, 7

**REACTIONS** All bearings 4-6-9 except (jt=length) 1=4-4-0, 15=4-4-0, 16=4-4-0.  
 (lb) - Max Horz 1=350(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 15, 16, 11 except 1=334(LC 12), 8=375(LC 12), 10=106(LC 21)  
 Max Grav All reactions 250 lb or less at joint(s) 15, 16, 11, 10, 9 except 1=721(LC 21), 8=748(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1596/615, 2-3=-1446/605, 3-4=-1331/627, 4-5=-974/511, 5-6=-976/514  
 BOT CHORD 1-16=-680/1336, 15-16=-680/1336, 14-15=-680/1336, 14-56=-442/968, 56-57=-442/968, 13-57=-442/968, 12-13=-442/968, 12-58=-248/618, 11-58=-248/618, 10-11=-248/618, 9-10=-248/618, 8-9=-248/618  
 WEBS 2-14=-392/302, 4-14=-174/397, 4-12=-635/408, 5-12=-371/663, 6-8=-1044/411

- 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=24ft; 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 1-4-0 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) 15, 16, 11 except (jt=lb) 1=334, 8=375, 10=106.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
  - 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 SP, 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



February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 460040	Truss T17G	Truss Type Common Truss	Qty 1	Ply 1	6370228
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Builders FirstSource, Jacksonville, FL 32244  
 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:35 2013 Page 1  
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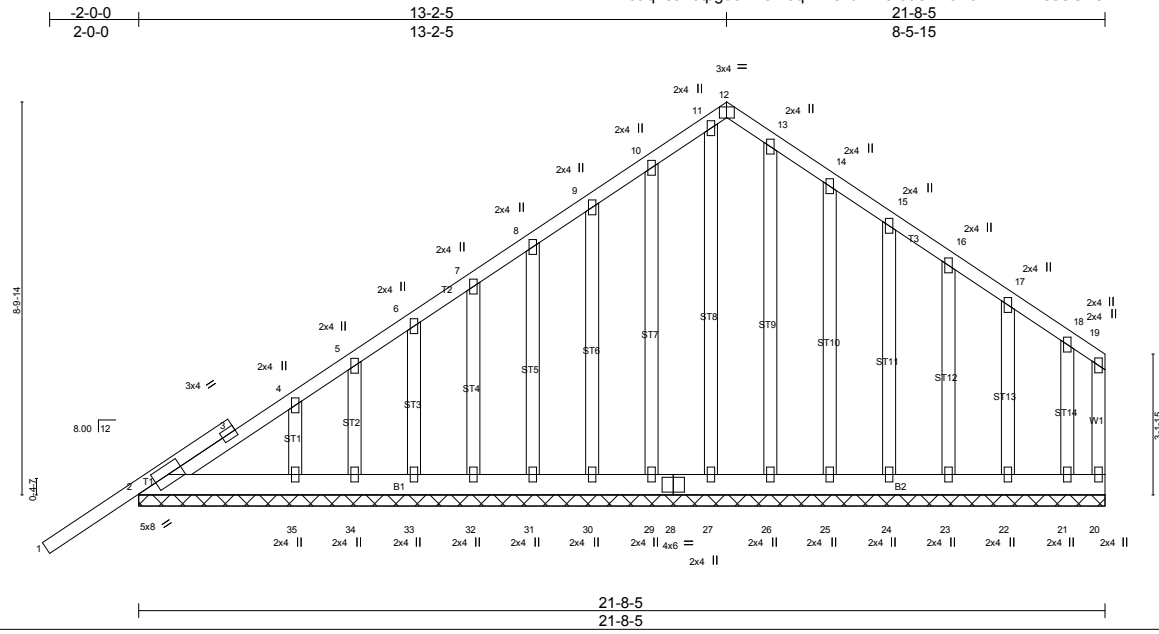


Plate Offsets (X,Y): [12-0-1-15,Edge]					
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.04	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.30	Vert(TL) -0.01 1 n/r 120		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 20 n/a n/a		
	Code FBC2010/TPI2007			Weight: 203 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3  
 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.

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

**REACTIONS** All bearings 21-8-5.  
 (b) - Max Horz 2=335(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 20, 2, 30, 31, 32, 33, 34, 35, 29, 27, 24, 23, 22 except 25=104(LC 13), 21=111(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 20, 30, 31, 32, 33, 34, 35, 29, 27, 26, 25, 24, 23, 22, 21 except 2=250(LC 2)

**FORCES** (b) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=274/245, 3-4=265/263, 9-10=196/285, 10-11=243/320, 12-13=215/266, 13-14=226/282

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - 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) 20, 2, 30, 31, 32, 33, 34, 35, 29, 27, 24, 23, 22 except (jt=lb) 25=104, 21=111.
  - "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 SP, 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

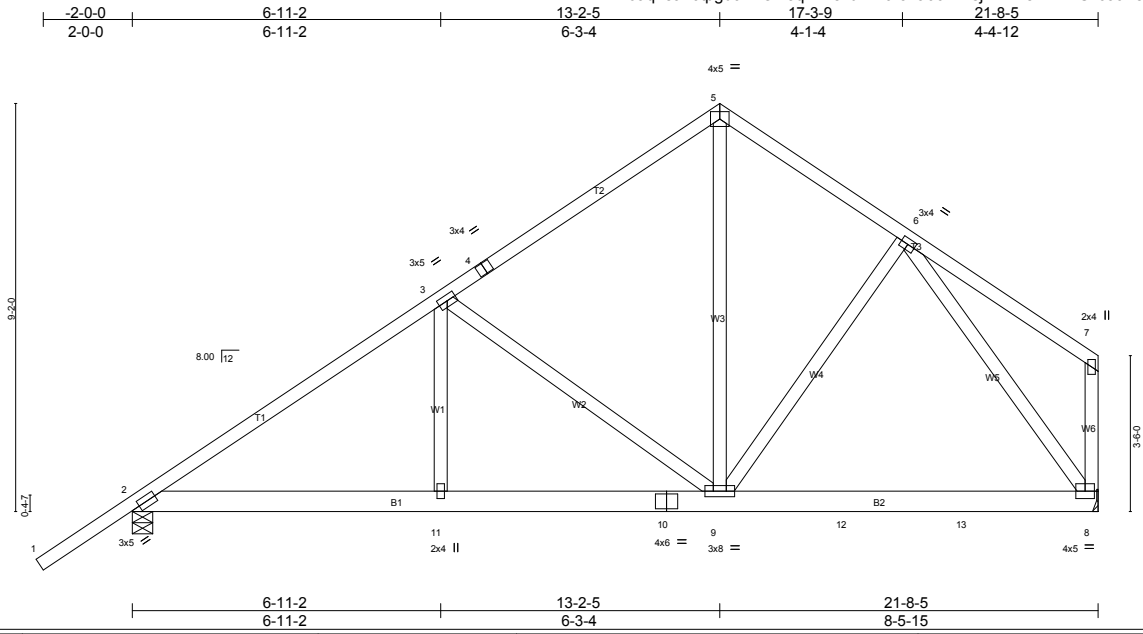


**LOAD CASE(S)** Standard

February 6, 2013

Job 460040	Truss T18	Truss Type Common Truss	Qty 9	Ply 1	6370229
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:37 2013 Page 1  
 ID:6aq2sa10tpgd9ExOR5qmmezumY0-5ha0cmMsjA?ZHsvZmHUkJaJTen?6TVdonrGIYxzns4q



<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.59 BC 0.25 WB 0.91 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.04 8-9 >999 240 Vert(TL) -0.08 8-9 >999 180 Horz(TL) 0.01 8 n/a n/a	<b>PLATES</b> MT20 Weight: 148 lb	<b>GRIP</b> 244/190 FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size) 2=699/0-5-8 (min. 0-1-8), 8=636/Mechanical  
 Max Horz 2=253(LC 9)  
 Max Uplift 2=-229(LC 12), 8=-167(LC 12)  
 Max Grav 2=814(LC 2), 8=675(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1283/475, 3-4=-854/371, 4-5=-766/397, 5-6=-835/420  
 BOT CHORD 2-11=-426/1027, 10-11=-426/1027, 9-10=-426/1027, 9-12=-201/529, 12-13=-201/529, 8-13=-201/529  
 WEBS 3-9=-625/360, 5-9=-251/510, 6-8=-872/334

- NOTES** (8-11)
- 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=24ft; Cat. II; Exp C; Encl., GCpi=0.18; 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
  - 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 (jt=lb) 2=229, 8=167.
  - "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 SP, 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



February 6, 2013

Job 460040	Truss T19G	Truss Type GABLE	Qty 1	Ply 1	6370230
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:38 2013 Page 1  
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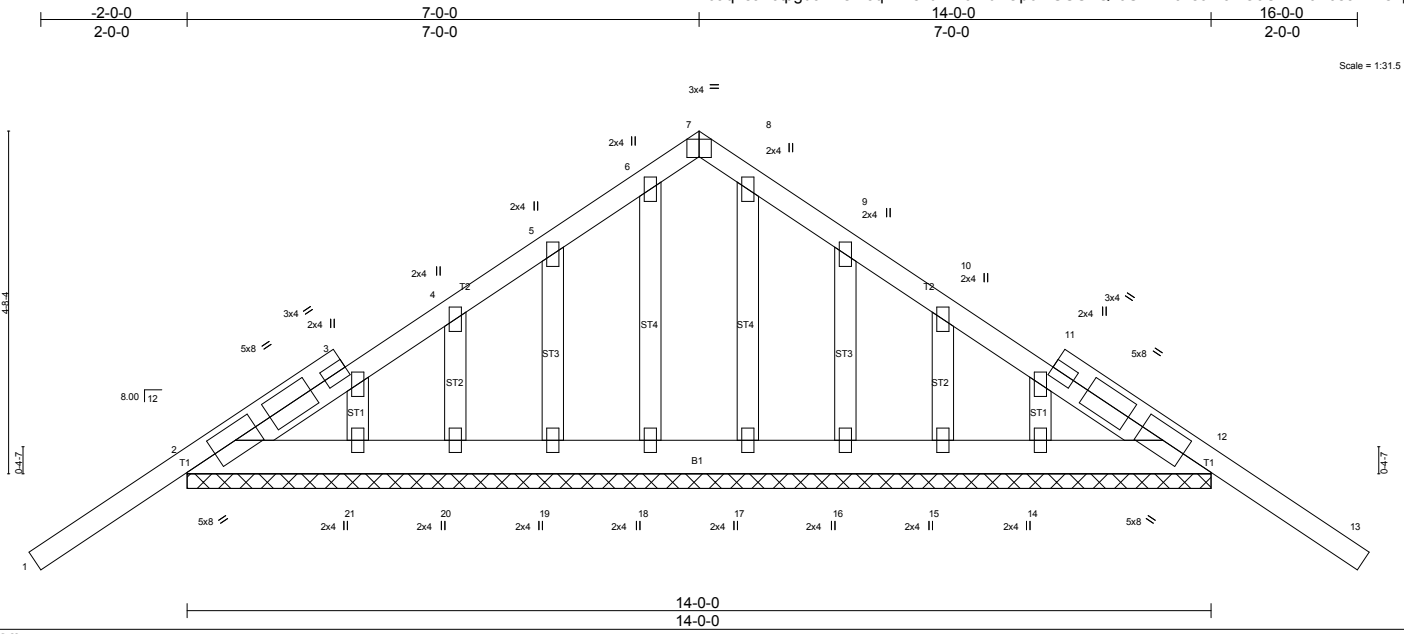


Plate Offsets (X,Y): [7:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.39	Vert(LL) -0.03 13 n/r 120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.06	Vert(TL) -0.04 13 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.00 12 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)			
				Weight: 96 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 OTHERS 2x4 SP No.3

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

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

**REACTIONS** All bearings 14-0-0.  
 (lb) - Max Horz 2=-154(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 17, 16 except 2=-118(LC 12), 12=-129(LC 13), 20=-139(LC 12), 15=-142(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 17, 16, 15, 14

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

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - 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) 18, 19, 17, 16 except (jt=lb) 2=118, 12=129, 20=139, 15=142.
  - "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 SP, represents new lumber design values as per SPIIB.
  - 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



February 6, 2013

Job 460040	Truss T20	Truss Type Common Truss	Qty 5	Ply 1	Job Reference (optional) 6370231
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:39 2013 Page 1  
ID:6aq2sa10tpgd9ExOR5qmmezumY0-14hm1SN7EoFHX93ytiXCO?Op\_bgUxcp5F9IPdqzns4c

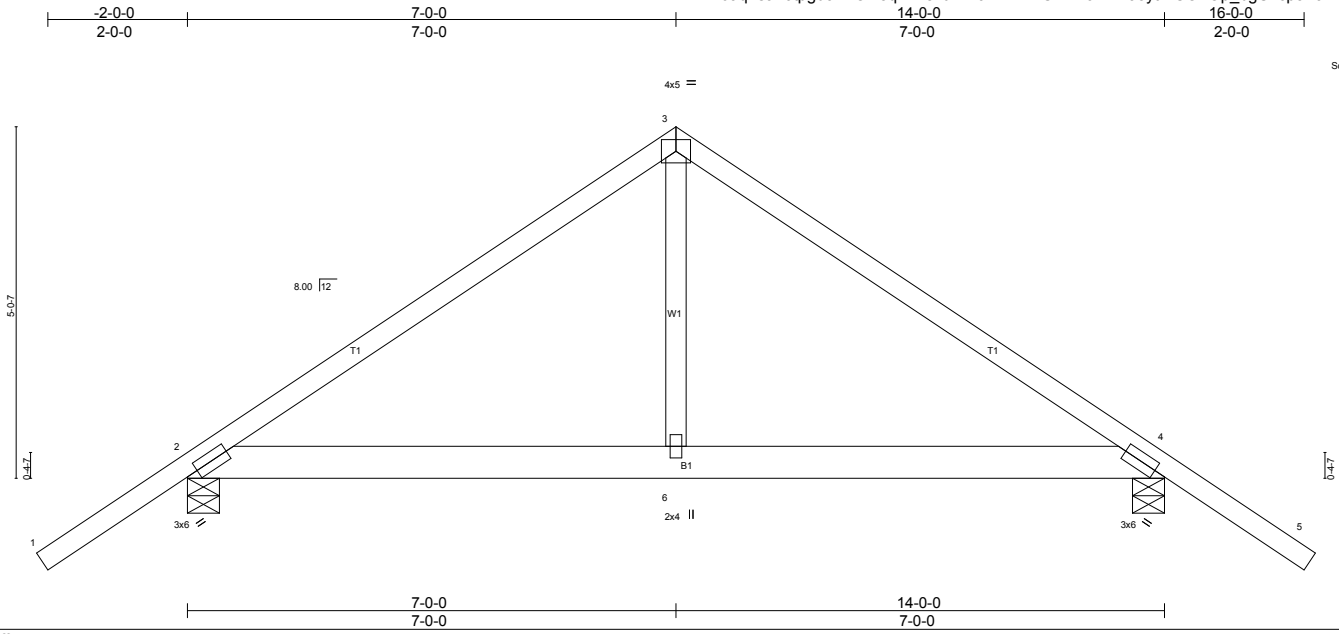


Plate Offsets (X,Y): [2:0-2-0,0-1-8], [4:0-2-0,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.25	Vert(LL) -0.04 4-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Vert(TL) -0.05 4-6 >999 180		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.00 4 n/a n/a		
				Weight: 72 lb	FT = 20%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=467/0-5-8 (min. 0-1-8), 4=467/0-5-8 (min. 0-1-8)  
 Max Horz 2=-125(LC 8)  
 Max Uplift 2=-163(LC 12), 4=-163(LC 13)  
 Max Grav 2=558(LC 2), 4=558(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-666/230, 3-4=-666/230  
 BOT CHORD 2-6=-19/433, 4-6=-19/433  
 WEBS 3-6=0/252

- 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; TC DL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; 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) 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) 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 (jt=lb) 2=163, 4=163.
  - 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 SP, 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



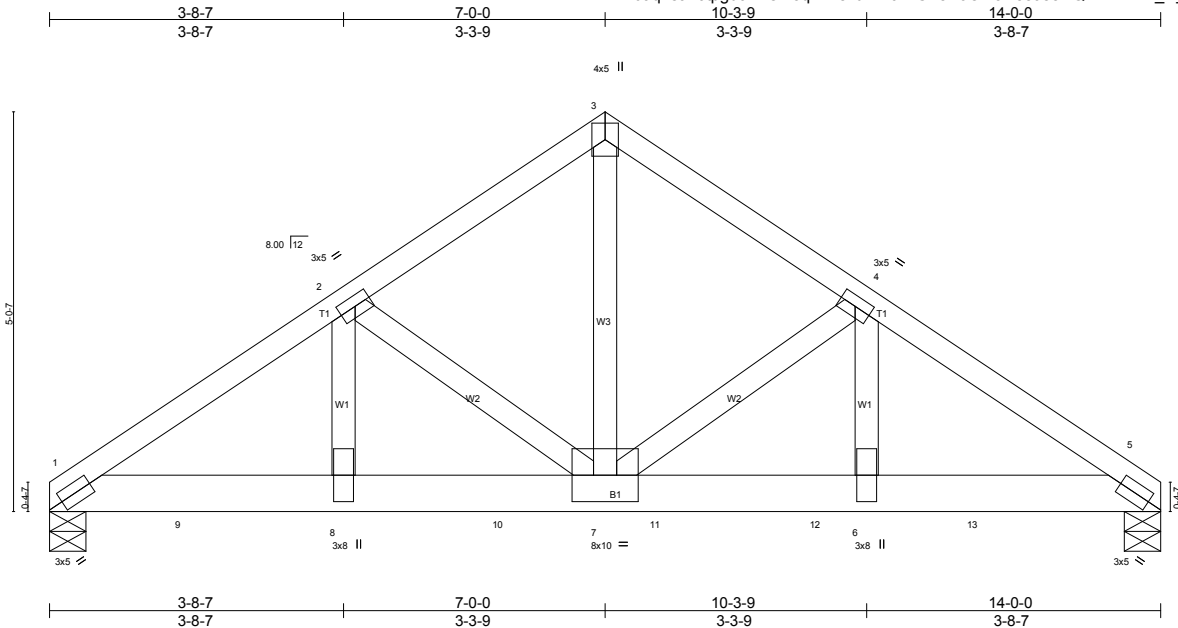
February 6, 2013

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.</b>          Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information</b> available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.</p>	<p>Julius Lee PE.          1109 Coastal Bay          Boynton Beach, FL 33435</p>
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Job 460040	Truss T21	Truss Type Common Truss	Qty 1	Ply 2	Job Reference (optional)	16370232
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Builders FirstSource, Jacksonville, FL 32244 7:350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:40 2013 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.30 BC 0.62 WB 0.75 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.06 6-7 >999 240 Vert(TL) -0.11 6-7 >999 180 Horz(TL) 0.03 5 n/a n/a	<b>PLATES</b> MT20 Weight: 164 lb	<b>GRIP</b> 244/190 FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=3312/0-5-8 (min. 0-2-2), 5=3143/0-5-8 (min. 0-2-0)  
 Max Horz 1=123(LC 5)  
 Max Uplift 1=-964(LC 8), 5=-914(LC 9)  
 Max Grav 1=3567(LC 2), 5=3387(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-5143/1382, 2-3=-3543/996, 3-4=-3542/996, 4-5=-5139/1382  
 BOT CHORD 1-9=-1147/4182, 8-9=-1147/4182, 8-10=-1147/4182, 7-10=-1147/4182, 7-11=-1089/4176,  
 11-12=-1089/4176, 6-12=-1089/4176, 6-13=-1089/4176, 5-13=-1089/4176  
 WEBS 3-7=-1021/3688, 4-7=-1570/501, 4-6=-445/1735, 2-7=-1577/502, 2-8=-444/1738

- NOTES** (11-13)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCCL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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.
  - 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 (jt=lb) 1=964, 5=914.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 995 lb down and 274 lb up at 1-9-0, 995 lb down and 274 lb up at 3-9-0, 995 lb down and 274 lb up at 5-9-0, 1034 lb down and 284 lb up at 7-9-0, and 1034 lb down and 284 lb up at 9-9-0, and 1034 lb down and 284 lb up at 11-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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 SP, 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  
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Continued on page 2

February 6, 2013

Job 460040	Truss T21	Truss Type Common Truss	Qty 1	Ply <b>2</b>	Job Reference (optional) i6370232
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:41 2013 Page 2  
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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-3=-44, 3-5=-44, 1-5=-10

Concentrated Loads (lb)

Vert: 8=-936(F) 9=-936(F) 10=-936(F) 11=-972(F) 12=-972(F) 13=-972(F)

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

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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, DSB-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 460040	Truss T22G	Truss Type GABLE	Qty 1	Ply 1	6370233
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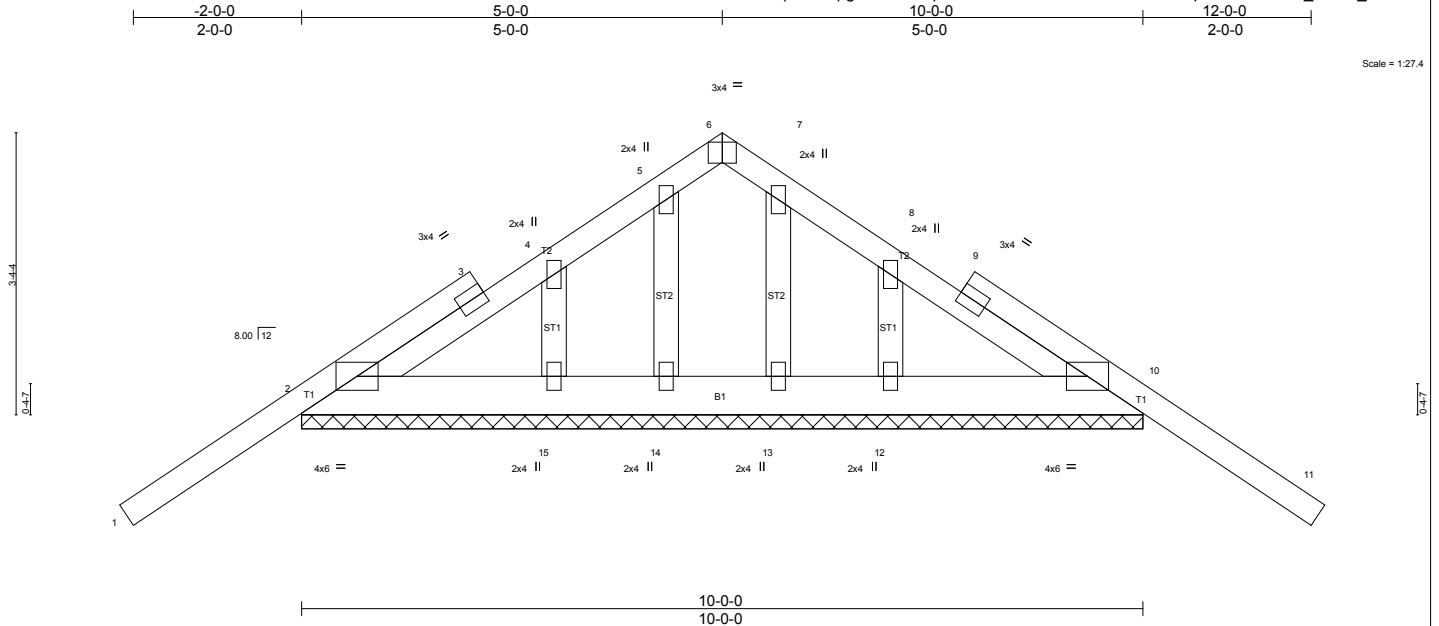


Plate Offsets (X,Y): [6:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b> GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.40	Vert(LL) -0.03 11 n/r 120	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.06	Vert(TL) -0.04 11 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.00 10 n/a n/a	
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)		Weight: 64 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 OTHERS 2x4 SP No.3

**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.

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

**REACTIONS** All bearings 10-0-0.  
 (lb) - Max Horz 2=-110(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 13, 12 except 2=-138(LC 12), 10=-146(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13, 12

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

- NOTES** (11-13)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 1-4-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - 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) 14, 15, 13, 12 except (jt=lb) 2=138, 10=146.
  - "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 SP, 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



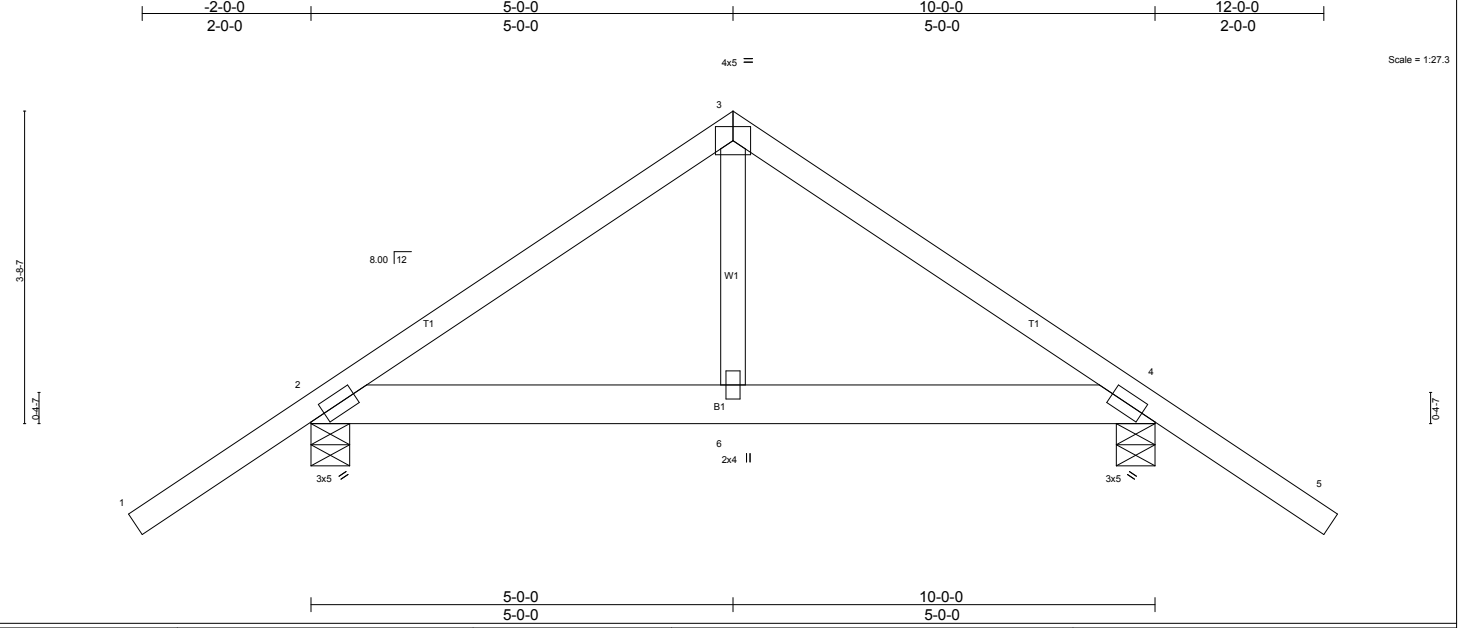
February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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, DSB-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 460040	Truss T23	Truss Type Common Truss	Qty 3	Ply 1	6370234
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:43 2013 Page 1  
 ID:6aq2sa10tpgd9ExOR5qmmezumY0-wrxHtqQd10lj?nMj6Yb8ZrZW2C3?tQLgAnjdmzbns4k



<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007	<b>CSI</b> TC 0.47 BC 0.15 WB 0.07 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d TC(LL) -0.02 4-6 >999 240 Vert(TL) -0.02 4-6 >999 180 Horz(TL) 0.00 4 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 53 lb FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3

**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.

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

**REACTIONS** (lb/size) 2=359/0-5-8 (min. 0-1-8), 4=359/0-5-8 (min. 0-1-8)  
 Max Horz 2=90(LC 8)  
 Max Uplift 2=131(LC 12), 4=131(LC 13)  
 Max Grav 2=430(LC 2), 4=430(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=440/122, 3-4=441/123  
 BOT CHORD 2-6=0/286, 4-6=0/286

- 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; TCDL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; 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) 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) 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 (jt=lb) 2=131, 4=131.
  - 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 SP, 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

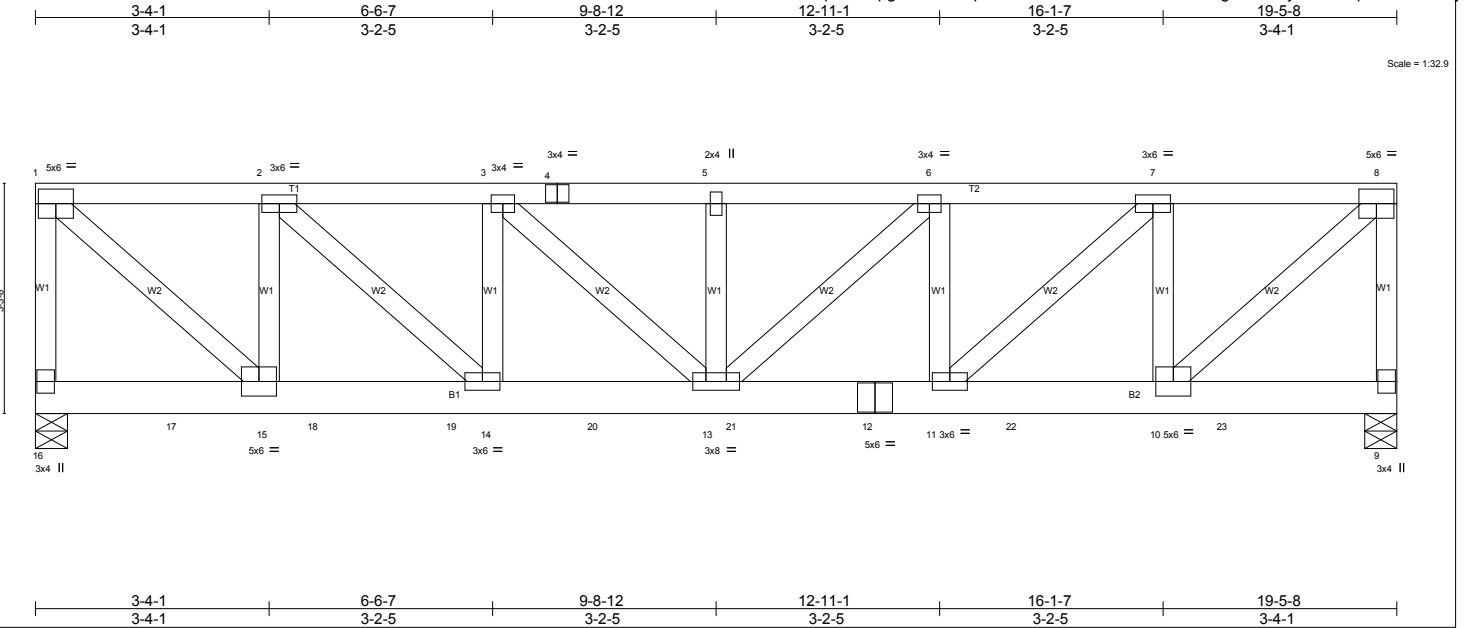
**LOAD CASE(S)** Standard



February 6, 2013

Job 460040	Truss T24	Truss Type FLAT TRUSS	Qty 1	Ply 2	Job Reference (optional) 6370235
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:44 2013 Page 1  
 ID:6aq2sa10tpgd9ExOR5qmmzumY0-01Vf4ARF3KiZdxvvgF6N535jPcJuclTqORTAI1zns4



<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007	<b>CSI</b> TC 0.37 BC 0.56 WB 0.59 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.12 13 >999 240 Vert(TL) -0.22 13 >999 180 Horz(TL) 0.03 9 n/a n/a	<b>PLATES</b> MT20 Weight: 271 lb	<b>GRIP</b> 244/190 FT = 20%
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**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SYP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 W2: 2x4 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 16=3268/0-5-8 (min. 0-2-1), 9=3398/0-5-8 (min. 0-2-3)  
 Max Uplift 16=965(LC 4), 9=1001(LC 4)  
 Max Grav 16=3538(LC 2), 9=3677(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-16=-3307/915, 1-2=-3558/967, 2-3=-5671/1541, 3-4=-6385/1734, 4-5=-6385/1734, 5-6=-6385/1734, 6-7=-5745/1560, 7-8=-3743/1015, 8-9=-3476/959  
 BOT CHORD 15-18=-967/3558, 18-19=-967/3558, 14-19=-967/3558, 14-20=-1541/5671, 13-20=-1541/5671, 13-21=-1560/5745, 12-21=-1560/5745, 11-12=-1560/5745, 11-22=-1015/3743, 10-22=-1015/3743  
 WEBS 1-15=-1293/4760, 2-15=-2090/613, 2-14=-777/2862, 3-14=-831/265, 3-13=-261/966, 6-13=-235/866, 6-11=-765/248, 7-11=-739/2712, 7-10=-1985/586, 8-10=-1357/5008

- NOTES** (11-13)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 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.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - 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 (j=lb) 16=965, 9=1001.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 665 lb down and 177 lb up at 2-0-12, 665 lb down and 177 lb up at 4-0-12, 665 lb down and 177 lb up at 6-0-12, 665 lb down and 177 lb up at 8-0-12, 665 lb down and 177 lb up at 10-0-12, 665 lb down and 177 lb up at 12-0-12, 665 lb down and 177 lb up at 14-0-12, and 665 lb down and 177 lb up at 16-0-12, and 665 lb down and 177 lb up at 17-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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 SP, represents new lumber design values as per SPIIB.
  - 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



February 6, 2013

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 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 460040	Truss T24	Truss Type FLAT TRUSS	Qty 1	Ply <b>2</b>	Job Reference (optional) i6370235
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:44 2013 Page 2  
ID:6aq2sa10tpgd9ExOR5qmmzumY0-O1Vf4ARF3KiZdxvgF6N535jPcJuclTqORTAI1zns4

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-8=-44, 9-16=-10

Concentrated Loads (lb)

Vert: 12=-626(B) 10=-626(B) 17=-626(B) 18=-626(B) 19=-626(B) 20=-626(B) 21=-626(B) 22=-626(B) 23=-626(B)

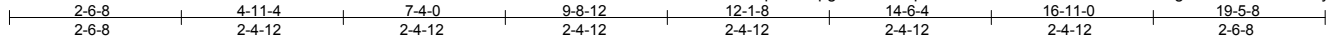
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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

Job 460040	Truss TG01	Truss Type FLAT TRUSS	Qty 1	Ply 3	Job Reference (optional) 6370236
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Builders FirstSource, Jacksonville, FL 32244 7,350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:46 2013 Page 1  
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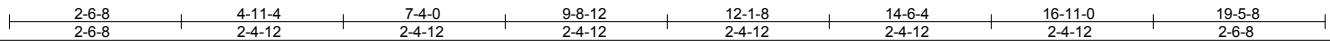
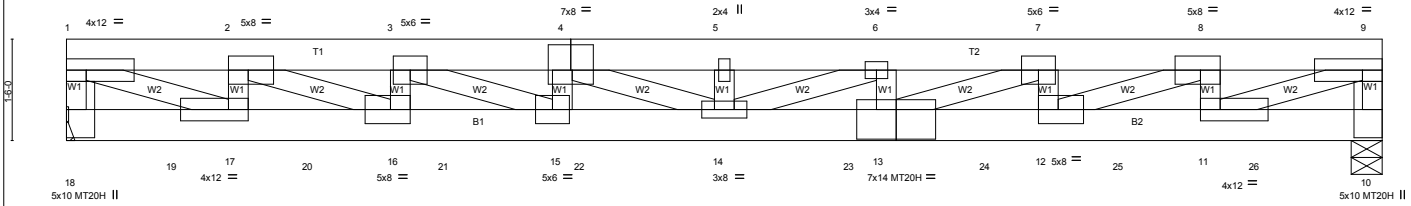


Plate Offsets (X,Y): [2:0-3-8,0-2-8], [4:0-4-0,0-4-8], [8:0-3-8,0-2-8], [10:Edge,0-3-8], [11:0-3-8,0-2-0], [12:0-3-8,0-2-8], [13:0-7-0,0-5-4], [16:0-3-8,0-2-8], [17:0-3-8,0-2-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plates Increase 1.00	TC 0.97	Vert(LL)	-0.55	14	>422	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.98	Vert(TL)	-0.87	14	>265	MT20H	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(TL)	0.10	10	n/a		
BCDL 5.0	Code FBC2010/TP12007	(Matrix)	Wind(LL)	0.28	14	>820		
							Weight: 374 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x6 SYP No.2  
BOT CHORD 2x6 SYP SS  
WEBS 2x4 SP No.3 \*Except\*  
W2: 2x4 SYP No.1

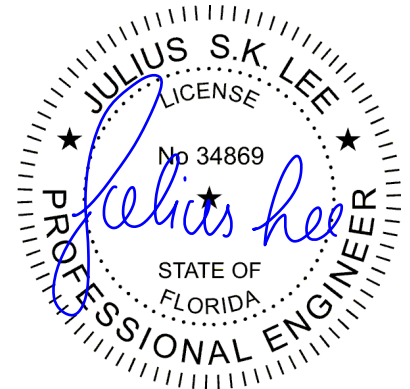
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
2-2-0 oc bracing: 14-15,13-14.

**REACTIONS** (lb/size) 18=5712/Mechanical, 10=5705/0-5-8 (min. 0-2-12)  
Max Uplift 18=-1576(LC 4), 10=-1572(LC 4)  
Max Grav 18=6961(LC 2), 10=6953(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-18=-6451/1459, 1-2=-13191/3007, 2-3=-22743/5184, 3-4=-28340/6461, 4-5=-30142/6872, 5-6=-30142/6872, 6-7=-28439/6483, 7-8=-22742/5184, 8-9=-13189/3006, 9-10=-6450/1458  
BOT CHORD 18-19=-172/758, 17-19=-172/758, 17-20=-3007/13191, 16-20=-3007/13191, 16-21=-5184/22743, 15-21=-5184/22743, 15-22=-6519/28609, 14-22=-6519/28609, 14-23=-6483/28439, 13-23=-6483/28439, 13-24=-5184/22742, 12-24=-5184/22742, 12-25=-3006/13189, 11-25=-3006/13189, 11-26=-172/757, 10-26=-172/757  
WEBS 1-17=-3091/13557, 2-17=-5495/1220, 2-16=-2374/10416, 3-16=-3924/866, 3-15=-1393/6103, 4-15=-2254/486, 4-14=-389/1687, 5-14=-1315/272, 6-14=-424/1857, 6-13=-2264/487, 7-13=-1416/6212, 7-12=-3931/868, 8-12=-2375/10417, 8-11=-5498/1221, 9-11=-3090/13556

- NOTES** (13-16)
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-17 2x4 - 1 row at 0-7-0 oc, member 8-11 2x4 - 1 row at 0-7-0 oc.
  - 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.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - 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.
  - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - Provide metal plate or equivalent at bearing(s) 18 to support reaction shown.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 18=1576, 10=1572.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 181 lb down and 86 lb up at 1-8-2, 181 lb down and 86 lb up at 3-8-2, 181 lb down and 86 lb up at 5-8-2, 181 lb down and 86 lb up at 7-8-2, 181 lb down and 86 lb up at 9-8-2, 181 lb down and 86 lb up at 11-8-2, 181 lb down and 86 lb up at 13-8-2, and 181 lb down and 86 lb up at 15-8-2, and 181 lb down and 86 lb up at 17-8-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2



February 6, 2013

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

Job 460040	Truss TG01	Truss Type FLAT TRUSS	Qty 1	Ply <b>3</b>	Job Reference (optional) 16370236
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:46 2013 Page 2  
ID:6aq2sa10tpgd9ExOR5qmmmezumY0-KQcPVrTWbx7HtE5log9rBUBvSPtr4cL6slyHNwzns4h

- 13) 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.
- 14) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
- 15) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
- 16) Use Simpson HGUS28-3 to attach Truss to Carrying member

**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-9=-514, 10-18=-10

Concentrated Loads (lb)

Vert: 14=-152(B) 19=-152(B) 20=-152(B) 21=-152(B) 22=-152(B) 23=-152(B) 24=-152(B) 25=-152(B) 26=-152(B)



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



Job 460040	Truss TG02	Truss Type Common Truss	Qty 1	Ply 3	Job Reference (optional) 6370237
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Builders FirstSource, Jacksonville, FL 32244  
 7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:48 2013 Page 1  
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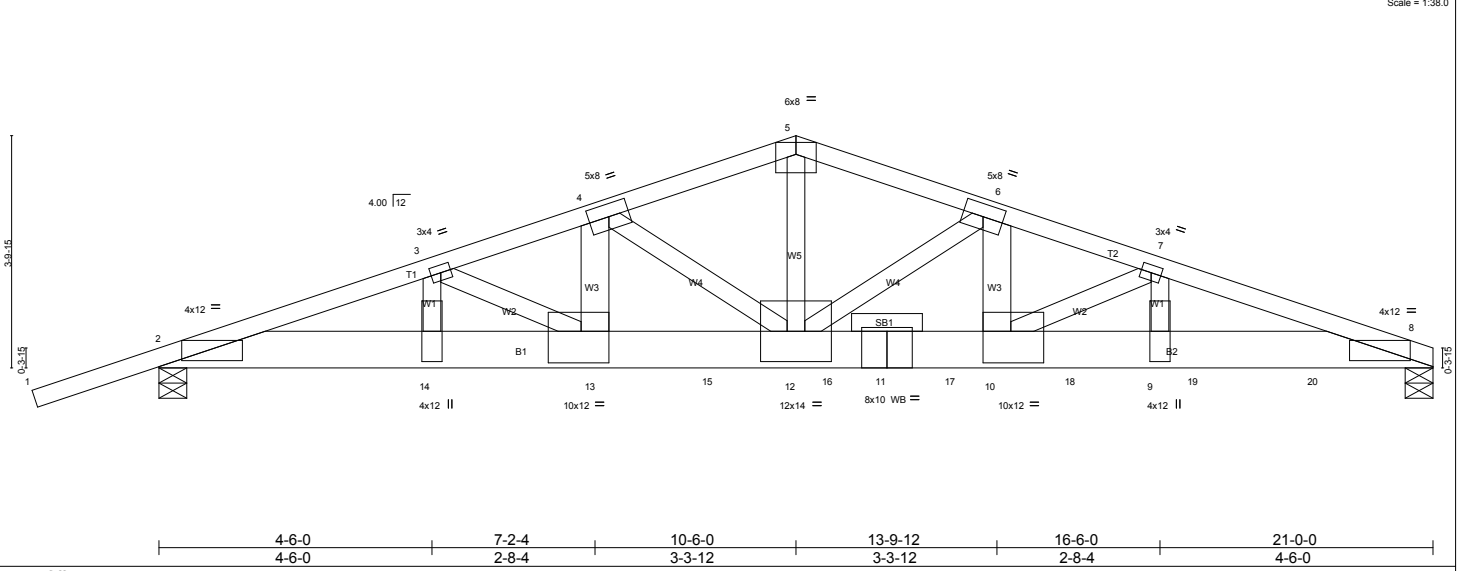


Plate Offsets (X,Y):	[2:0-6-0,0-1-11], [8:0-6-0,0-1-11], [10:0-5-8,0-6-4], [13:0-5-8,0-6-4]				
<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.00	TC 0.64	Vert(LL) -0.25 12-13 >985 360	MT20	244/190
TCDL 7.0	Lumber Increase 1.00	BC 0.66	Vert(TL) -0.45 12-13 >552 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.82	Horz(TL) 0.08 8 n/a n/a		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Wind(LL) 0.11 13 >999 240		
				Weight: 410 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SYP No.1  
 BOT CHORD 2x8 SYP DSS  
 WEBS 2x4 SP No.3 \*Except\*  
 W5: 2x4 SP No.2, W3: 2x6 SYP No.2  
 OTHERS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 8=6635/0-5-8 (min. 0-2-10), 2=6418/0-5-8 (min. 0-2-8)  
 Max Horz 2=74(LC 6)  
 Max Uplift 8=730(LC 5), 2=1350(LC 4)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-18093/3446, 3-4=-19003/3571, 4-5=-13300/2069, 5-6=-13302/2067, 6-7=-15891/2097,  
 7-8=-17128/2017  
 BOT CHORD 2-14=-3291/17180, 13-14=-3291/17180, 13-15=-3352/18020, 12-15=-3352/18020,  
 12-16=-1920/15074, 11-16=-1920/15074, 11-17=-1920/15074, 10-17=-1920/15074,  
 10-18=-1889/16273, 9-18=-1889/16273, 9-19=-1889/16273, 19-20=-1889/16273, 8-20=-1889/16273  
 WEBS 5-12=-1211/8143, 6-12=-3644/78, 6-10=0/3010, 7-10=-1924/132, 7-9=-181/1311, 4-12=-7744/1805,  
 4-13=-1429/6384, 3-13=-185/1015, 3-14=-985/201

- NOTES** (12-14)
- Special connection required to distribute web loads equally between all plies.
  - 3-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 - 4 rows staggered at 0-4-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, Except member 4-13 2x6 - 3 rows staggered at 0-4-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=24ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope); 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.
  - 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 (it=lb) 8=730, 2=1350.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6951 lb down and 1586 lb up at 7-2-5, 1253 lb down at 9-1-8, 1253 lb down at 11-1-8, 1253 lb down at 13-1-8, 1253 lb down at 15-1-8, and 1253 lb down at 17-1-8, and 1253 lb down at 19-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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 SP, represents new lumber design values as per SPIB.



Continued Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

February 6, 2013

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing 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 460040	Truss TG02	Truss Type Common Truss	Qty 1	Ply <b>3</b>	Job Reference (optional) i6370237
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Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Wed Feb 06 12:47:48 2013 Page 2  
ID:6aq2sa10tpgd9ExOR5qmmezumY0-GpkAwXUm7YO?6YFhv5BJGuGLDeBYWvPJ3RORozns4f

**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-5=-44, 5-8=-44, 2-8=-10

Concentrated Loads (lb)

Vert: 13=-5702(B) 15=-1024(B) 16=-1024(B) 17=-1024(B) 18=-1024(B) 19=-1024(B) 20=-1024(B)



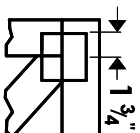
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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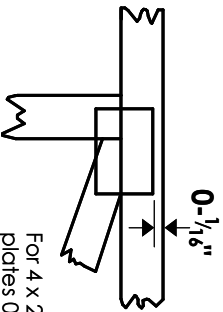
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1109 Coastal Bay  
Boynton Beach, FL 33435

# 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- $\frac{1}{8}$ " from outside edge of truss.

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

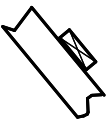
**\* Plate location details available in MITek 20/20 software or upon request.**

## PLATE SIZE

4 X 4

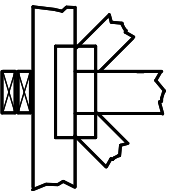
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

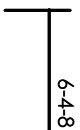


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

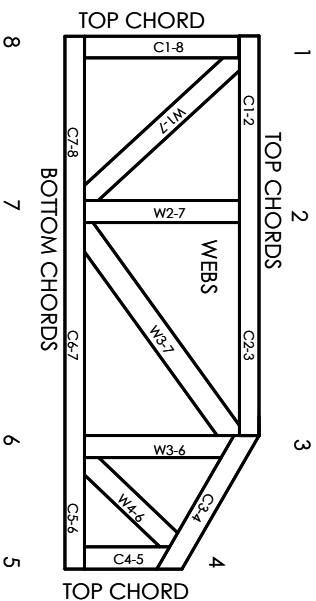
## Industry Standards:

ANSI/FP11: 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



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



**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO 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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# 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 stock 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 of joint locations are regulated by ANSI/FP11.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP11.
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 at 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/TP11 Quality Criteria.