



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

2733605 - GIEBEIG CONST. - LOT 9 CW

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Gioebeig Const. Project Name: Spec Hse Model: 1676 Subdivision: Crosswinds

Lot/Block: 9

Address: TBD, TBD

City: Columbia Cty

State: FL

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

License #:

Address:

City:

State:

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

Design Code: FBC2020/TPI2014

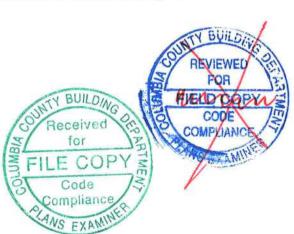
Design Program: MiTek 20/20 8.4

Wind Code: N/A Roof Load: 37.0 psf Wind Speed: 130 mph

Floor Load: N/A psf

This package includes 21 individual, 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.

		3040-0-1 AVI 9	
No.	Seal#	Truss Name	Date
1234567891112345678901	T23368913 T23368914 T23368915 T23368917 T23368918 T23368920 T23368921 T23368922 T23368923 T23368924 T23368925 T23368926 T23368927 T23368927 T23368927 T23368927 T23368931 T23368931	CJ01 CJ03 CJ05 EJ01 EJ02 HJ08 HJ10 PB01 PB02 PB03 PB04 T01G T01G T02 T03 T04 T05 T06 T07 T06	3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21 3/29/21
19			



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

Truss Design Engineer's Name: ORegan, Philip My license renewal date for the state of Florida is February 28, 2023.

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



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

March 29,2021

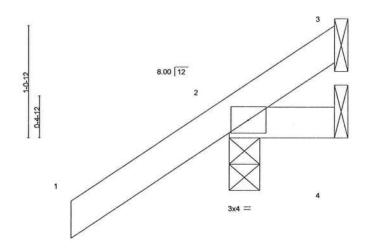
Job Truss Truss Type Qty GIEBEIG CONST. - LOT 9 CW T23368913 2733605 **CJ01** Jack-Open

-1-6-0 1-6-0

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Mar 29 06:34:40 2021 Page 1 ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-cpG17OfTzmgWoqltfHVdN1y9B?jwTzqiSvZC8rzW9Mj

Scale = 1:10.5



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	7	>999	180	2000000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	- Second Assert					Weight: 6 lb	FT = 20%

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

REACTIONS.

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

Max Horz 2=52(LC 12)

Max Uplift 3=-5(LC 1), 2=-69(LC 12), 4=-23(LC 19) Max Grav 3=7(LC 16), 2=179(LC 1), 4=21(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

March 29,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITE® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



GIEBEIG CONST. - LOT 9 CW Qtv Job Truss Truss Type Ply T23368915 6 2733605 **CJ05** Jack-Open Job Reference (optional) Jacksonville, FL - 32244, Builders FirstSource (Jacksonville, FL), 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Mar 29 06:34:42 2021 Page 1 ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-YCOnY4hjVNwE18vFniX5SS1RMpJaxtJ?wC2JCkzW9Mh Scale: 1/2"=1" 8.00 12 0-4-12 11 3x4 = 5-0-0 LOADING SPACING-2-0-0 CSI DEFL l/defl L/d PLATES GRIP 1.25 TC BC TCLL 20.0 Plate Grip DOL 0.34 Vert(LL) 0.08 4-7 >713 240 MT20 244/190

LUMBER-

TCDL

BCLL

BCDL

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

7.0

0.0

10.0

BRACING-

Vert(CT)

Horz(CT)

TOP CHORD **BOT CHORD**

0.07

-0.00

4-7

>824

n/a

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

Weight: 19 lb

180

n/a

REACTIONS.

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=143(LC 12) Max Uplift 3=-81(LC 12), 2=-49(LC 12), 4=-29(LC 9) Max Grav 3=116(LC 19), 2=276(LC 1), 4=89(LC 3)

Code FBC2020/TPI2014

Lumber DOL

Rep Stress Incr

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

0.35

0.00

WB

Matrix-MP

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 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.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



FT = 20%

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March 29,2021

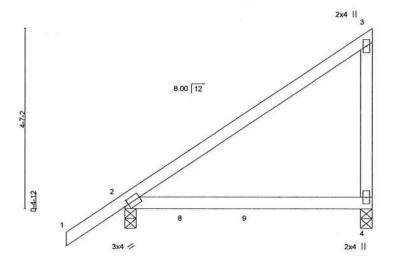
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify to specify design. Practice indicated is to prevent buckling of individual truss we hand/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss we hand/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss we hand/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss we have a properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of truss systems, see ANSI/PH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Truss Type Qty GIEBEIG CONST. - LOT 9 CW Truss T23368917 2733605 EJ02 Monopitch 8 Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Mar 29 06:34:43 2021 Page 1 Builders FirstSource (Jacksonville, FL). Jacksonville, FL - 32244.

ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-0Oy9lQiLGh25flUSKP2K_faZhCbvgKZ88soskAzW9Mg

Scale = 1:28.3



BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:0	-1-5,0-1-8]										
LOADING	G (ps	sf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.	.0		1	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	0.21	4-7	>348	240	MT20	244/190
TCDL	7	.0		1	Lumber DOL	1.25	BC	0.60	Vert(CT)	0.18	4-7	>401	180		
BCLL	0	.0	•	1	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.	0		1	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 29 lb	FT = 20%

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 4=0-3-8, 2=0-3-8

Max Horz 2=170(LC 12)

Max Uplift 4=-104(LC 12), 2=-50(LC 12) Max Grav 4=218(LC 1), 2=318(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-1-12 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 4=104.



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

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

except end verticals.

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Job Truss Truss Type GIEBEIG CONST - LOT 9 CW Qty Plv T23368919 2733605 **HJ10** Diagonal Hip Girder 2 | Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Mar 29 06:34:45 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244. ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-yn4wA5jcollpucdqSq4o44fuq0Hg89JRcAHzp3zW9Me 9-10-1 Scale = 1:29.4 5.66 12 3x4 = 0-4-12 14 7 5 3x4 = 2x4 || 3x4 = 4-6-0 4-6-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d PLATES GRIP Plate Grip DOL 20.0 TCLL 1.25 TC 0.58 Vert(LL) 0.07 6-7 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.58 Vert(CT) -0.11 6-7 >999 180 BCLL 0.0 Rep Stress Incr NO WB 0.37 Horz(CT) 0.01 5 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Weight: 45 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 9-0-6 oc bracing.

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

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical

Max Horz 2=182(LC 8)

Max Uplift 4=-94(LC 8), 2=-244(LC 8), 5=-191(LC 5) Max Grav 4=148(LC 1), 2=526(LC 1), 5=300(LC 1)

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

TOP CHORD 2-3=-647/328

BOT CHORD 2-7=-387/553, 6-7=-387/553

WEBS 3-7=-94/285, 3-6=-604/423

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=244, 5=191.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 73 lb up at 1-6-1, 60 lb down and 73 lb up at 1-6-1, 76 lb down and 46 lb up at 4-4-0, and 104 lb down and 92 lb up at 7-1-15, and 104 lb down and 50 lb up at 1-6-1, 44 lb down and 50 lb up at 1-6-1, 44 lb down and 50 lb up at 1-6-1, 44 lb down and 50 lb up at 1-6-1, 50 lb up at 1-6-1, 19 lb down and 24 lb up at 4-4-0, 19 lb down and 24 lb up at 4-4-0, and 41 lb down and 44 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)

Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-4(F=-2, B=-2) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 29,2021



.lob Truss Truss Type Qty GIEBEIG CONST. - LOT 9 CW T23368921 2733605 PB02 GABLE Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Mar 29 06:34:47 2021 Page 1 ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-uABgbnlsKwYX8vnDZF7G9VIMjq5_c81k3Um3txzW9Mc 13-8-0

Scale = 1:23.3

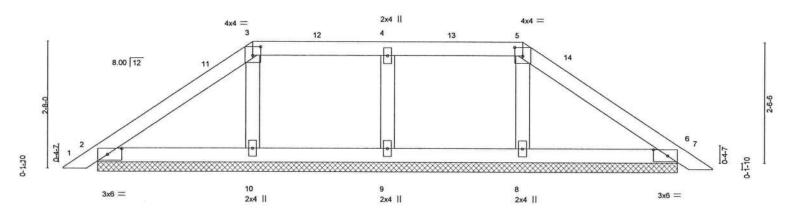


Plate Offs	sets (X,Y)	[2:0-3-9,0-1-8], [3:0-2-0,0	-2-3], [5:0-2-0,	0-2-3], [6:0-3	-9,0-1-8]	13-8-0						
LOADING TCLL TCDL	9 (psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.10 0.08	DEFL. Vert(LL) Vert(CT)	in 0.00 0.00	(loc) 7	l/defi n/r n/r	L/d 120 120	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0	Rep Stress Incr Code FBC2020/TI	YES	WB Matri	0.03	Horz(CT)	0.00	6	n/a	n/a	Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

13-8-0

LUMBER-

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

BOT CHORD

2x4 SP No.3 OTHERS

REACTIONS All bearings 12-1-12.

(lb) -Max Horz 2=55(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 8, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 8, 10

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

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 4-0-0, Exterior(2R) 4-0-0 to 8-2-15, Interior(1) 8-2-15 to 9-8-0, Exterior(2E) 9-8-0 to 13-4-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9, 8, 10. 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd, Tampa FL 33610

March 29,2021

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GIEBEIG CONST. - LOT 9 CW Truss Type Qty Job Ply Truss T23368923 **PB04** 11 2733605 Piggyback Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Mar 29 06:34:48 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244. ID:A600Z2ikebN8vXHTJEo_2QzWkY3-NMl2o7IU5DgNl3MP7yeVhjHSBDMwLaJtl8WdQOzW9Mb Scale = 1:28.9 4x6 = 3 8.00 12 2-4-7 0-1-10 6 3x6 = 3x6 = 2x4 || Plate Offsets (X,Y)-[2:0-3-9,0-1-8], [4:0-3-9,0-1-8] LOADING (psf) DEFL PLATES GRIP SPACING-CSI. I/def 2-0-0 (loc) L/d 20.0 Plate Grip DOL 1.25 TC Vert(LL) 0.02 120 244/190 TCLL 0.44 n/r MT20 TCDL 1.25 0.36 0.03 7.0 Lumber DOL Vert(CT) n/r 120 0.0 BCLL Rep Stress Incr YES WB 0.10 Horz(CT) 0.00 4 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-S Weight: 48 lb FT = 20%LUMBER-BRACING-

TOP CHORD

BOT CHORD

OTHERS REACTIONS.

TOP CHORD

BOT CHORD

(size) 2=12-1-12, 4=12-1-12, 6=12-1-12

Max Horz 2=-96(LC 10)

Max Uplift 2=-68(LC 12), 4=-81(LC 13), 6=-62(LC 12) Max Grav 2=246(LC 1), 4=246(LC 1), 6=459(LC 1)

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

WEBS

3-6=-275/107

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

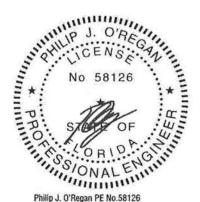
NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 6-10-0, Exterior(2R) 6-10-0 to 9-10-0, Interior(1) 9-10-0 to 13-4-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer



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

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

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 29,2021

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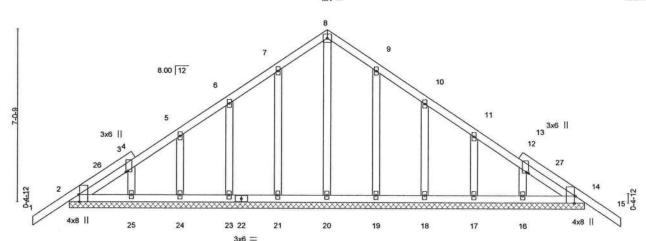
Job	Truss	Truss Type	Qty	Ply	GIEBEIG CONST LOT 9 CW	55/15C 80/19080 C 5-47/00
2733605	T01G	Common Supported Gable	1	1		T23368925
		100-900-00-00-00-00-00-00-00-00-00-00-00-			Job Reference (optional)	
Builders FirstSource	ce (Jacksonville, FL), Jac	ksonville, FL - 32244,			r 22 2021 MiTek Industries, Inc. Mon Mar 29 06:34:50	

Résonville, FL.) Jacksonville, FL. 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Mar 29 06:34:50 2021 Pag

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1-6-0 10-6-0 22-6-0 10-6-0 10-6-0 10-6-0

4x4 = Scale = 1:45.2



21-0-0 21-0-0 Plate Offsets (X,Y)-[2:0-3-8,Edge], [3:0-0-9,0-1-0], [13:0-0-9,0-1-0], [14:0-3-8,Edge] LOADING (psf) SPACING-2-0-0 DEFL. CSI. (loc) I/defl L/d **PLATES** GRIP 20.0 Plate Grip DOL TC BC TCLL 1.25 0.13 Vert(LL) -0.01 15 n/r 120 MT20 244/190 TCDL 7.0 1.25 Lumber DOL 0.04 Vert(CT) -0.01 15 n/r 120 BCLL 0.0 Rep Stress Incr WB 0.11 YES Horz(CT) 0.00 14 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 130 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 BRACING-

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

REACTIONS. All bearings 21-0-0.

(lb) - Max Horz 2=-169(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 16

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

NOTES-

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-6-0, Corner(3R) 10-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 22-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- to the use of this truss component.

 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 29,2021

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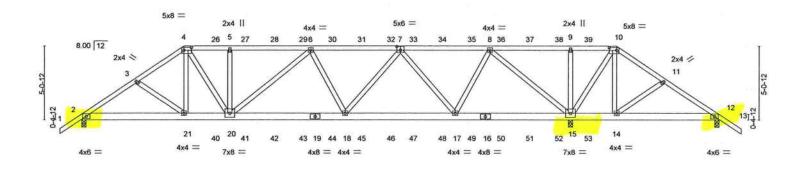
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job		Truss			Truss Type				Qty	Ply	GIEBEIG CO	ONST LOT 9	CW			
2733605		Т03			Hip Girder				1	2	Job Reference	ce (optional)			T233689	327
Builders First	Source (Jack	sonville, FL	.), Ja	acksonvill	e, FL - 32244,			ID:A600		8.430 s Mar	22 2021 MiTe	k Industries, Inc Cs7z p6KSY89				
r-1-6-0 ₁	3-9-11	7-0-0	1 10-1-	12	15-8-6	1	21-10-0	i i	27-11-10		33-6-4	36-8-0	39-10-5	43-8-0	A5-2-Q	
1-6-0	3-9-11	3-2-5	3-1-1	12	5-6-10		6-1-10		6-1-10	-	5-6-10	3-1-12	3-2-5	3-9-11	1-6-0	

Scale = 1:76.0



1		7-0-0 10-1-1		-0-11	25-7-6		3-6-4	36-8-0	43-8-0	
Plate Offse	ets (X,Y)-	7-0-0 3-1-12 [4:0-6-4,0-2-4], [7:0-3-6	Commence of the Commence of th	10-15 1,0-2-4]	7-6-11	1-	10-15	3-1-12	7-0-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.4	8 Vert(LL)	0.14 18-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.5	4 Vert(CT)	-0.22 18-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.8	9 Horz(CT)	0.04 15	n/a	n/a		
BCDL	10.0	Code FBC2020	D/TPI2014	Matrix-MS	3			2000	Weight: 563 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

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

2x4 SP No.3

(size) 2=0-3-8, 15=0-3-8, 12=0-3-8

Max Horz 2=-126(LC 25) Max Uplift 2=-944(LC 8), 15=-2432(LC 5), 12=-839(LC 19) Max Grav 2=2153(LC 19), 15=5263(LC 1), 12=462(LC 7)

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

TOP CHORD 2-3=-3447/1585, 3-4=-3301/1556, 4-5=-3426/1646, 5-6=-3426/1646, 6-7=-3518/1637,

7-8=-1561/742, 8-9=-1161/2558, 9-10=-1161/2558, 10-11=-783/1776, 11-12=-808/1723

2-21=-1317/2840, 20-21=-1265/2712, 18-20=-1693/3625, 17-18=-1265/2700, BOT CHORD

15-17=-234/471, 14-15=-1456/701, 12-14=-1407/667

4-21=-296/578, 4-20=-638/1317, 5-20=-284/169, 6-20=-302/175, 7-18=-600/1310,

7-17=-1820/874, 8-17=-1078/2431, 8-15=-3931/1823, 9-15=-330/191, 10-15=-2015/969,

10-14=-293/514

NOTES-

WEBS

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

6) Provide adequate drainage to prevent water ponding.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=944, 15=2432, 12=839.



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

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 14-15,12-14.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

March 29,2021

Continued on page 2

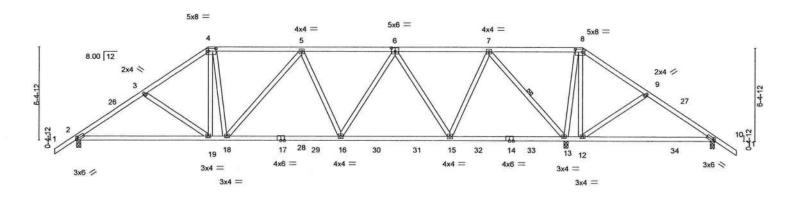
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd

Job		Truss		Truss Type		Qty	Ply	GIEBEIG CONS	T LOT 9 CW		VIII/15101-93104
2733605		T04		Hip		1		1 Job Reference (o	ntional)		T23368928
Builders FirstS	ource (Jacks	onville, FL),	Jacksonville,	FL - 32244,		ID:A6O0Z2ikebN		ar 22 2021 MiTek Inc QzWkY3-YTwD6uu	dustries, Inc. Mon I		
r1-6-0 ₁	4-8-3	9-0-0	1	5-5-0	21-10-0	28-3-	0 ,	34-8-0	38-11-13	43-8-0	A5-2-0
1-6-0	4-8-3	4-3-13	,	6-5-0	6-5-0	6-5-6)	6-5-0	4-3-13	4-8-3	1-6-0

Scale = 1:76.0



		_	9-0-0 9-0-0	10-1-12	18-1-1 7-11-5		25-6-15 7-5-15	-		3-6-4 -11-5	34-8-0 1-1-12	43-8-0 9-0-0	
Plate Offse	ets (X,Y)	THE RESERVE THE PARTY OF THE PA		, [6:0-3-0,0-3-0], [8:0-	6-4,0-2-4], [1				-11-5	1-1-12	9-0-0	
LOADING	(psf)		SPACING-	2-	0-0 CSI	1	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip Do	OL 1	.25 TC	0.61	Vert(LL)	0.23 1	2-25	>536	240	MT20	244/190
TCDL	7.0		Lumber DOL	1	.25 BC	0.77	Vert(CT)	0.18 1	2-25	>668	180		
BCLL	0.0	•	Rep Stress Ir	ncr Y	ES WB	0.85	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0		Code FBC20	020/TPI20	14 Mat	rix-MS					0.550	Weight: 254 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 4-0-10 oc purlins.

Rigid ceiling directly applied or 5-9-9 oc bracing. 1 Row at midpt 7-13

REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 10=0-3-8

Max Horz 2=-155(LC 10) Max Uplift 2=-296(LC 12), 13=-504(LC 9), 10=-280(LC 23) Max Grav 2=1271(LC 25), 13=2521(LC 2), 10=104(LC 9)

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

2-3=-1780/421, 3-4=-1605/380, 4-5=-1350/362, 5-6=-1449/334, 6-7=-735/208, 7-8=-194/895, 8-9=-187/900, 9-10=-224/785
2-19=-361/1465, 18-19=-287/1291, 16-18=-375/1504, 15-16=-304/1174, 13-15=-108/285, TOP CHORD

BOT CHORD

12-13=-702/233, 10-12=-609/178

WEBS 3-19=-290/166, 4-19=-51/378, 4-18=-138/357, 5-18=-308/196, 6-16=-113/531,

6-15=-847/248, 7-15=-179/1128, 7-13=-1771/454, 8-13=-1032/659, 8-12=-637/343,

9-12=-295/223

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

- 17) Orbitalistics (100 live loads have been considered to find design).
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 9-0-0, Exterior(2R) 9-0-0 to 15-5-0, Interior(1) 15-5-0 to 34-8-0, Exterior(2R) 34-8-0 to 40-10-2, Interior(1) 40-10-2 to 45-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 4) Provide adequate drainage to prevent water ponding.5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=296, 13=504, 10=280.



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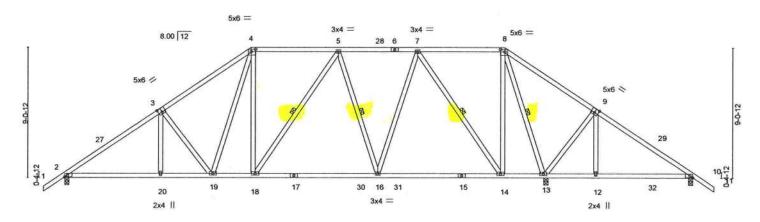
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Job	Truss	Trus	s Type	0	Qty	Ply	GIEBEIG CONST LOT 9 CW		
2733605	T06	Hip		1	1	1			T23368930
							Job Reference (optional)		
Builders FirstSourc	e (Jacksonville, FL),	Jacksonville, FL - 3	32244,		8	.430 s Mar	22 2021 MiTek Industries, Inc. Mor	Mar 29 06:35:02	2021 Page 1
				ID:A600Z2ike	Xv8Nde	HTJEo_2Q	zWkY3-y2bLkvwGoXRORDR5yvuo	Ggsqat_ackrxWKv	MvazW9MN
_C 1-6-0 ₁	6-8-3	13-0-0	19-0-14	24-7-2	1	30-8-0	36-11-13	43-8-0	45-2-0
1-6-0	6-8-3	6-3-13	6-0-14	5-6-5	1	6-0-14	6-3-13	6-8-3	1-6-0

Scale = 1:77.3



	1	6-8-3 , 10-1	-12 13-0-0	21-10-0	31	30-8-0	- 37	33-6-4	36-11-13	43-8-	-0
		6-8-3 3-5	9 2-10-4	8-10-0		8-10-0		2-10-4	3-5-9	6-8-	3
Plate Offse	ets (X,Y)-	[3:0-3-0,0-3-4], [4:0-3	12,0-2-0], [8:0-3-1	2,0-2-0], [9:0-3-0,0-3-4],	[10:0-2-3,Edge]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	F	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.20 16-18	>999	240	N	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.34 16-18	>999	180			
BCLL	0.0	Rep Stress Inc	YES	WB 0.80	Horz(CT)	0.06 13	n/a	n/a			
BCDL	10.0	Code FBC202	0/TPI2014	Matrix-MS	77. 35				V	Weight: 281 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 3-9-14 oc purlins.

Rigid ceiling directly applied or 2-2-0 oc bracing.
1 Row at midpt 5-18, 5-16, 7-14, 8-1 5-18, 5-16, 7-14, 8-13

REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 10=0-3-8

Max Horz 2=-214(LC 10)
Max Uplift 2=-306(LC 12), 13=-340(LC 13), 10=-114(LC 13)
Max Grav 2=1368(LC 2), 13=2088(LC 2), 10=313(LC 24)

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

TOP CHORD 2-3=-1970/416, 3-4=-1654/439, 4-5=-1198/364, 5-7=-1095/279, 8-9=-79/483

BOT CHORD 2-20=-373/1643, 19-20=-373/1643, 18-19=-256/1193, 16-18=-272//1184, 14-16=-208/876,

13-14=-42/268

WEBS 3-20=0/253, 3-19=-550/228, 4-19=-175/434, 4-18=-99/367, 5-16=-362/196,

7-16=-138/733, 7-14=-1169/290, 8-14=-192/1244, 8-13=-1780/279, 9-13=-497/378,

9-12=-221/260

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 13-0-0, Exterior(2R) 13-0-0 to 19-0-14, Interior(1) 19-0-14 to 30-8-0, Exterior(2R) 30-8-0 to 36-11-9, Interior(1) 36-11-9 to 45-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=306, 13=340, 10=114.



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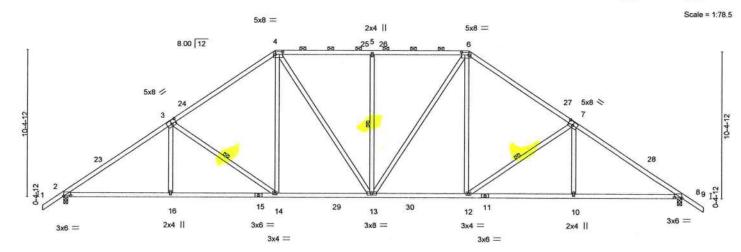
March 29,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTeMs connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucliapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Fighway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty GIEBEIG CONST. - LOT 9 CW T23368932 2733605 TOS Piggyback Base 14 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Mar 29 06:35:05 2021 Page 1

ID:A600Z2ikebN8vXHTJEo_2QzWkY3-NdHUNxz94Spzlg9gd1RVtIUFn43Yp93NCI70WvzW9MK 21-10-0 28-8-0 36-0-14 43-8-0 7-7-2 6-10-0



	L	7-7-2	15-0-0	2	I-10-0	2	8-8-0	- 3		36-0-14	43-8-0	7
		7-7-2	7-4-14	6	-10-0	6-	-10-0	1		7-4-14	7-7-2	
Plate Off	sets (X,Y)	[2:0-6-0,0-0-7], [3:0-4-0,0	0-3-0], [4:0-6-4,0)-2-4], [6:0-6-4,0-	2-4], [7:0-4-0,0-	3-0], [8:0-6	6-0,0-0-7					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.8	3 1	Vert(LL)	-0.20 1	2-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.8	3 1	Vert(CT)	-0.34 1	2-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.5	7 1	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS		88 18					Weight: 264 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied, except

3-14, 5-13, 7-12

Rigid ceiling directly applied or 8-4-8 oc bracing.

2-0-0 oc purlins (3-8-5 max.): 4-6.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 BOT CHORD

WEBS 2x4 SP No.3

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

Max Horz 2=-243(LC 10)

Max Uplift 2=-371(LC 12), 8=-371(LC 13) Max Grav 2=1852(LC 2), 8=1852(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2799/523, 3-4=-2252/472, 4-5=-1998/436, 5-6=-1998/436, 6-7=-2252/472,

7-8=-2799/523 **BOT CHORD** 2-16=-472/2313, 14-16=-472/2313, 13-14=-253/1795, 12-13=-142/1795, 10-12=-308/2265,

8-10=-308/2265 WEBS

3-16=0/316, 3-14=-692/276, 4-14=-109/679, 4-13=-205/463, 5-13=-418/209, 6-13=-205/463, 6-12=-109/679, 7-12=-693/276, 7-10=0/316

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

- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 15-0-0, Exterior(2R) 15-0-0 to 21-2-2, Interior(1) 21-2-2 to 28-8-0, Exterior(2R) 28-8-0 to 34-10-2, Interior(1) 34-10-2 to 45-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=371, 8=371,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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March 29,2021

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STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

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(R)

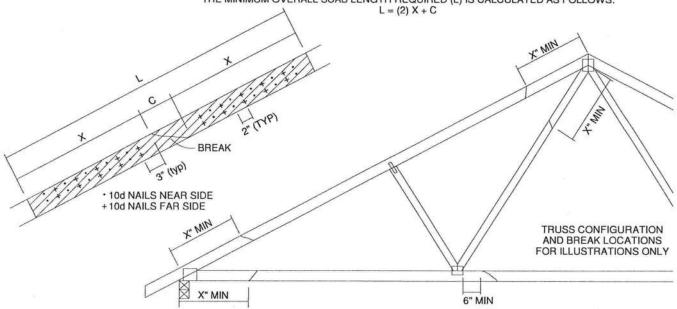
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TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION								
			SP		DF		SPF		HF		
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6	
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028	
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608	
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187	
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767	
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347	

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES

- NOTES:

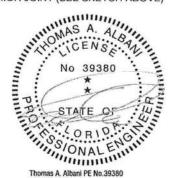
 1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

 3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

 4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

- THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 22_ORIENTATION ONLY. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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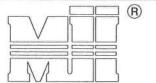
January 19, 2018

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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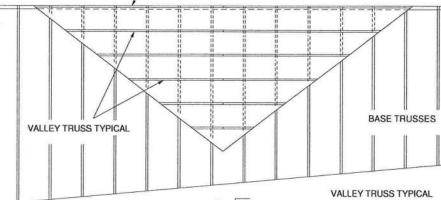


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

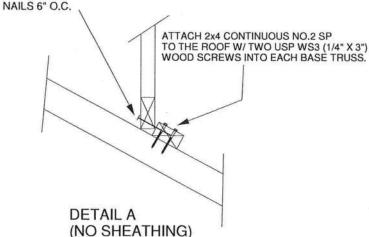
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS. 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING
- EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING. 6. NAILING DONE PER NDS 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS OR GIRDER TRUSS 12 P SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d



N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF

ON THE TRUSSES

No 39380

STATE OF THE STATE OF

Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

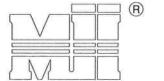
January 19, 2018

TRUSSED VALLEY SET DETAIL

MII-VALLEY SP

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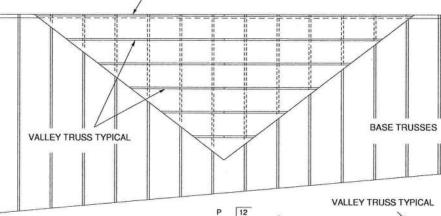
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ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

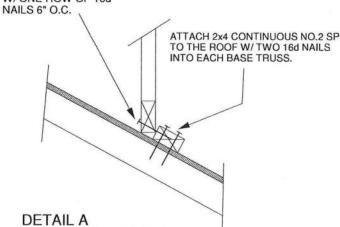
- NAIL SIZE 16d (0.131" X 3.5")
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 16d



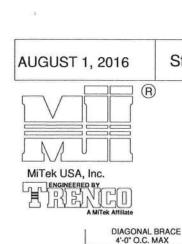
(MAXIMUM 1" SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET.
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 60 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES



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February 12, 2018



Standard Gable End Detail

MII-GE146-001

Page 1 of 2 MiTek USA, Inc.

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

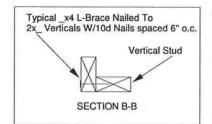
ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =

Vertical Stud (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails SECTION A-A

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

- 10d

NAILS

Roof Sheathing

1'-3"

Max.

24" Max

Diag. Brace

at 1/3 points

End Wall

if needed

NOTE:

Diagonal Bracing

Refer to Section A-A

- L-Bracing Refer

to Section B-B

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES:

2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

5. DIAGONAL BRACE TO BE APPHOXIMATELY 45 DEGREES TO ROOP DIAPHRAM AT 4-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

TYPE TRUSSES.

10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade		Maximum Stud Length						
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10			
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11			
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7			

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS



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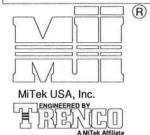
January 19, 2018

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

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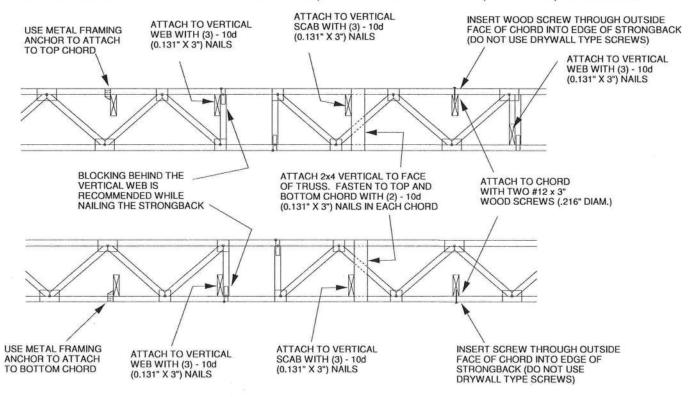
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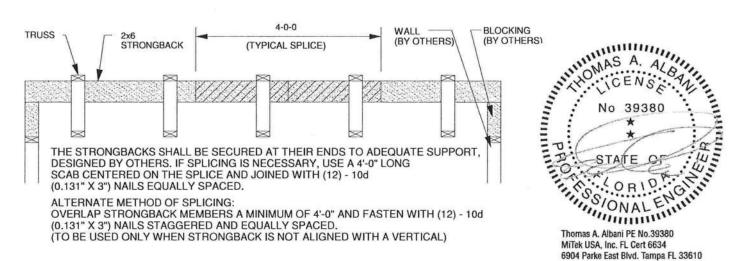


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.





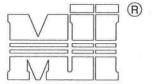
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Date:

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7-10

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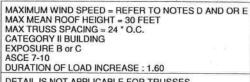
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0(0.131" X 3.5") TOE-NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2 X _ X 4"-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
DIRECTIONS AND: DIRECTIONS AND

DIRECTIONS AND:

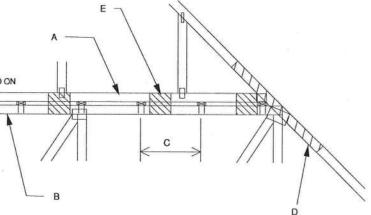
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM
PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH
ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET
EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH
3 - 64 (0.113" X 2") NAILS INTO EACH CHORD FROM
EACH SIDE (TOTAL - 12 NAILS)

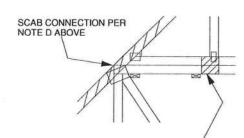


DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

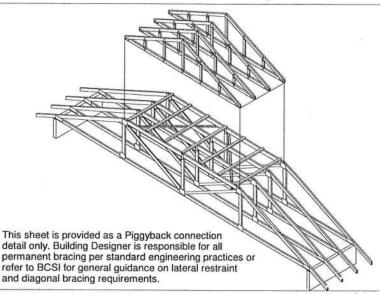


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

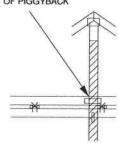
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.

AS SHOWN IN DETAIL.

ATTACH 2 x x 4'-0" SCAB TO EACH FACE OF
TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS
SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH
VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.)

VEHTICAL WEBS OF FIGGTBACK AND BASE THOSE, (MINIMUM 2X4)
THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.

GHEATER THAN 4000 LBS.
FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
CONCENTRATED LOAD MUST BE APPLIED TO BOTH
THE PIGGYBACK AND THE BASE TRUSS DESIGN.

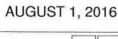
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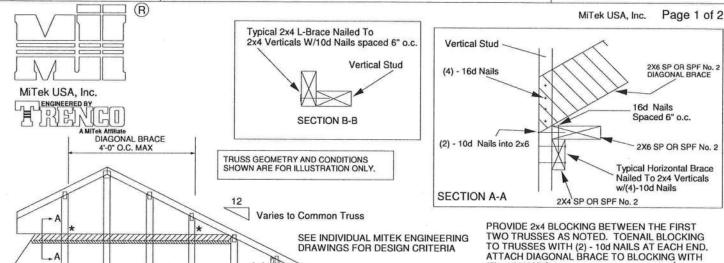
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Thomas A. Albani PE No.39380 Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 January 19, 2018



Standard Gable End Detail

MII-GE180-D-SP



DRAWINGS FOR DESIGN CRITERIA

24" Max

3x4 =

Diagonal Bracing Refer to Section A-A

- L-Bracing Refer to Section B-B

**

NOTE

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND

WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT

BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3
OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
 CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A

2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4.

(REFER TO SECTION A-A)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.

11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
Species and Grade		Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3			
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7			
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4			
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1			
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7			
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9			

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS

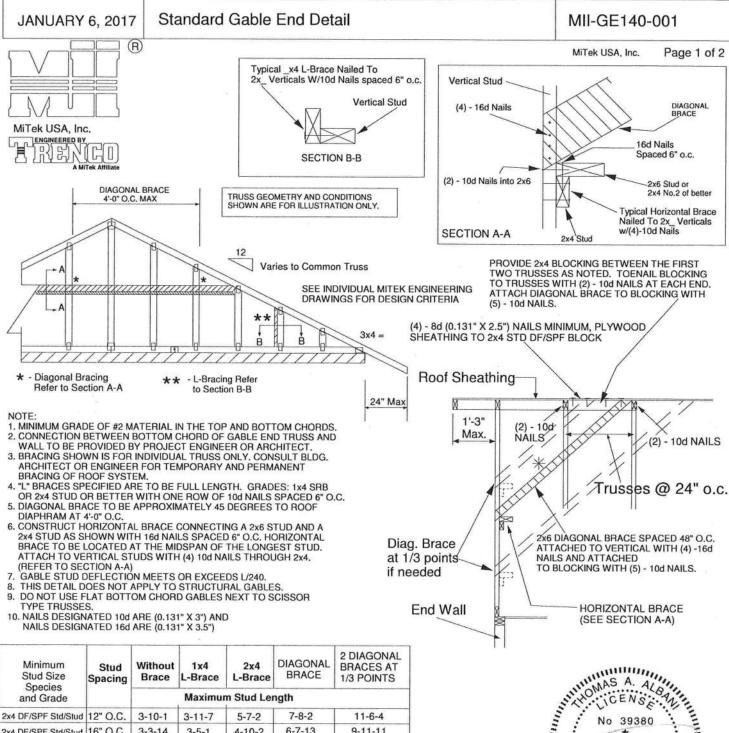
(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK Roof Sheathing 1'-0" (2) - 10d NAILS Max. (2) - 10d NAILS Trusses @ 24" o.c. Diag. Brace at 1/3 points 2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH if needed (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS. HORIZONTAL BRACE End Wall (SEE SECTION A-A)

(5) - 10d NAILS.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

February 12, 2018



Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade			ngth			
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

January 19, 2018

Standard Gable End Detail

MII-GE130-D-SP

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DIAGONAL BRACE

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

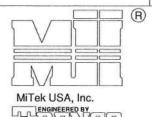
ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

MiTek USA, Inc.



Typical x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

3x4 =

24" Max

Diag. Brace

at 1/3 points

End Wall

if needed

Vertical Stud (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails SECTION A-A

Roof Sheathing

1'-3"

Max.

DIAGONAL BRACE 4'-0" O.C. MAX Varies to Common Truss DRAWINGS FOR DESIGN CRITERIA B

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH SEE INDIVIDUAL MITEK ENGINEERING (5) - 10d NAILS (4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

(2) - 10d

NAILS

Diagonal Bracing Refer to Section A-A ** - L-Bracing Refer to Section B-B

NOTE

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND

WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY, CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
"L" BRACES SPECIFIED ARE TO BE FULL LENGTH, GRADES: 1x4 SRB

OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD.

ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

TYPE TRUSSES. 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

06-01-13 BY SPIB/ALSC.

11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade		Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7	
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13	
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH **DURATION OF LOAD INCREASE: 1.60**

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING CONNECTION OF BRACING IS BASED ON MWFRS.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date

February 12, 2018

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

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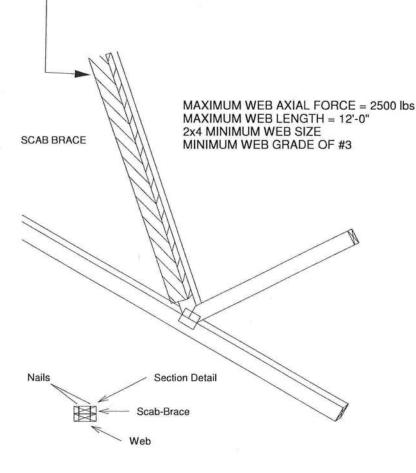


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APLICABLE WHEN BRACING IS *** REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x___ SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

February 12, 2018