

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

RE: 2820752 - CORNERSTONE - LOT 84 EC

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Cornerstone Project Name: Spec Hse Model: 1653

Subdivision: Emerald Cove

Lot/Block: 84 Address: TBD, TBD

City: Columbia Cty

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2020/TPI2014

Wind Code: ASCE 7-16

Design Program: MiTek 20/20 8.4 Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 24 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.

No.	Seal#	Truss Name	Date
123456789101123145671890122	T24444447 T24444448 T244444451 T244444453 T244444453 T244444455 T244444457 T244444457 T244444458 T244444460 T24444461 T24444461 T24444466 T24444465 T24444466 T24444466 T24444466 T24444466 T24444466 T24444466 T24444466	CJ01 CJ03 CJ05 EJ01 EJ01G HJ10 T01 T01A T01A T02 T03 T04 T05 T06 T07 T08 T10 T11 T12 T11 T12 T13 T14 T14G	6/23/21 6/23/21

No.	Seal#	Truss Name	Date
23	T24444469	T15	6/23/21
24	T24444470	T15G	6/23/21



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-Lake City, FL.

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



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

June 23,2021

ORegan, Philip

1 of 1



CORNERSTONE - LOT 84 EC Job Truss Truss Type Qty Ply T24444447 2820752 CJ01 Jack-Open 8 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:50:47 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-?R8xdLgL9L5k_bdHo8KQVR?e2e?jg_k0DAllglz3i1c Scale = 1:8.2 6.00 12 0-5-13 4 LOADING (psf) SPACING-DEFL I/defl L/d PLATES GRIP (loc)

TC BC TCLL 20.0 Plate Grip DOL 1.25 0.14 Vert(LL) 0.00 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1 25 0.03 Vert(CT) 0.00 >999 180 WB BCLL 0.0 Rep Stress Incr YES 0.00 2 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 6 lb FT = 20%

LUMBER-

2x4 SP No.2 TOP CHORD **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.

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=39(LC 12)

Max Uplift 3=-6(LC 1), 2=-67(LC 12), 4=-19(LC 1) Max Grav 3=7(LC 16), 2=179(LC 1), 4=18(LC 16)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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

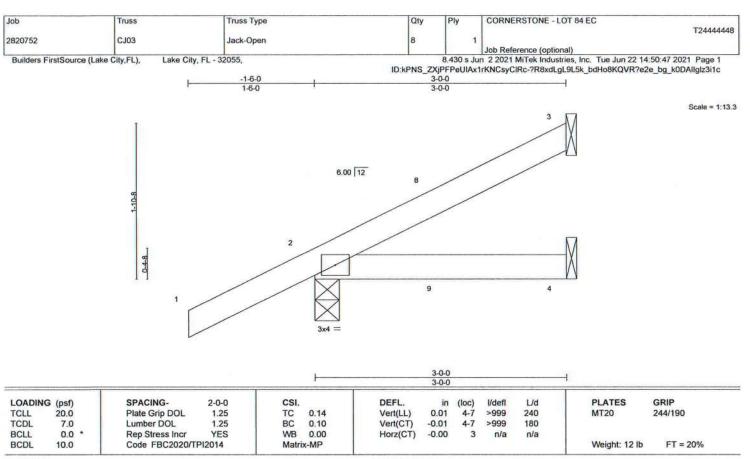
June 23,2021

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 MiTek® connectors. This shot introduced mit the REFERENCE PAGE MIT 47 Jew. SHIZZED SEFORE 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 anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.2 TOP CHORD BOT CHORD

2x4 SP No.2

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

Max Horz 2=73(LC 12)

Max Uplift 3=-35(LC 12), 2=-58(LC 12), 4=-16(LC 9) Max Grav 3=60(LC 1), 2=210(LC 1), 4=50(LC 3)

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 2-11-4 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
- 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.



Structural wood sheathing directly applied or 3-0-0 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:

June 23,2021

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



T24444449 8 2820752 CJ05 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:50:48 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, $ID: kPNS_ZXjPFPeUIAx1rKNCsyClRc-TdiJqghzweDbclCUMrrf2fXnZ2lgPR_9SqVrCBz3i1b$ Scale = 1:18.2 6.00 12 0-4-8

Qty

Ply

				<u> </u>		5-0-0					4	
LOADING	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	0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180	10000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	121120 SCH					Weight: 18 lb	FT = 20%

LUMBER-

Job

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

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

CORNERSTONE - LOT 84 EC

REACTIONS.

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

Truss

Max Horz 2=107(LC 12) Max Uplift 3=-67(LC 12), 2=-65(LC 12) Max Grav 3=113(LC 1), 2=276(LC 1), 4=88(LC 3)

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 right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss Type

- 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.
- 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.



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

June 23,2021

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 MTTek® 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Comp. Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



CORNERSTONE - LOT 84 EC Job Truss Truss Type Qty Ply T24444450 2820752 EJ01 Jack-Partial Job Reference (optional) 8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:50:51 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-tCNSTijrCZbATDw31_PMgH9CFFDJcojb8ojVpWz3i1Y 7-0-0 6.00 12 0-4-B 12 11 3x4 = Plate Offsets (X,Y)-[2:0-1-13,0-1-8] LOADING (psf) SPACING-DEFL. I/defl L/d **PLATES** GRIP 244/190 TC BC TCLL 20.0 Plate Grip DOL 1.25 0.70 Vert(LL) 0.30 4-7 >274 240 MT20 TCDL 7.0 Lumber DOL 1.25 0.69 Vert(CT) 0.26 >323 180 BCLL Rep Stress Incr WB 0.00 -0.01 0.0 YES Horz(CT) n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 25 lb FT = 20% BRACING-LUMBER-TOP CHORD 2x4 SP No 2 Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 2x4 SP No.2 REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

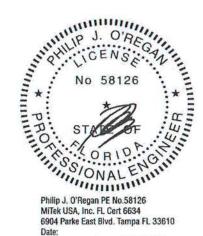
Max Horz 2=137(LC 12)

Max Uplift 3=-86(LC 12), 2=-76(LC 12), 4=-40(LC 9) Max Grav 3=164(LC 1), 2=346(LC 1), 4=126(LC 3)

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 6-11-4 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
- 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.

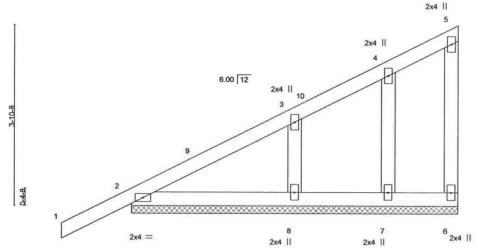


MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 23,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. WARNING: Verify design parameters and READ INTES AND INISAND INCLODED MITER REFERENCE PAGE MIL-4/13rev. 3/19/200 BEFORC USE. Design valid for use only with MITERO 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 bucking of individual truss web and/or chord mehers only. Additional temporary and permanent bracing is always required for stability and to prevent bucking of individual truss web and/or chord mehers 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/TPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	Vdefl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	1	n/r	120	100,575	
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S				200720	1000000	Weight: 36 lb	FT = 20%

LUMBER-

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

TOP CHORD

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.

REACTIONS. All bearings 7-0-0.

b) - Max Horz 2=140(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 6, 2, 8, 7

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

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 and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

1

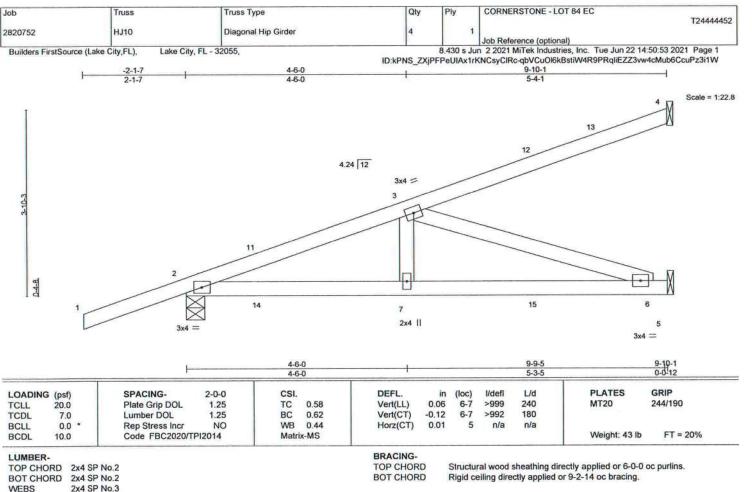
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 8, 7.



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

June 23,2021





REACTIONS.

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

Max Horz 2=149(LC 4)

Max Uplift 4=-77(LC 4), 2=-298(LC 4), 5=-142(LC 4) Max Grav 4=149(LC 1), 2=527(LC 1), 5=299(LC 1)

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

TOP CHORD 2-3=-799/340

BOT CHORD 2-7=-395/729, 6-7=-395/729 WEBS 3-7=-60/281, 3-6=-768/416

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; 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=298. 5=142.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 73 lb up at 1-6-1, 59 lb down and 73 lb up at 1-6-1, 22 lb down and 38 lb up at 4-4-0, 22 lb down and 38 lb up at 4-4-0, and 43 lb down and 43 lb up at 1-15, and 43 lb down and 78 lb up at 7-1-15 on top chord, and 41 lb down and 43 lb up at 1-6-1, 41 lb down and 43 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 64 lb down at 7-1-15, and 64 lb down 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

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf) Vert: 1-4=-54, 5-8=-20

centrated Loads (lb)

Vert: 7=-6(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

No 58126

No 58126

No Florida Allera Control Control

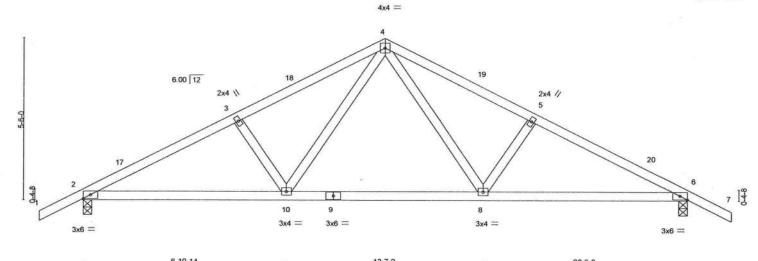
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 23,2021



Job CORNERSTONE - LOT 84 EC Qty Truss Truss Type Ply T24444453 2820752 T01 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:50:54 2021 Page 1

Scale = 1:37.7



	-	6-10-14				13-7-2		1	L		20-6-0	- 1
		6-10-14				6-8-4					6-10-14	
Plate Offs	ets (X,Y)	[6:0-2-15,Edge]										
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	0.32	Vert(LL)	-0.16	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.32	8-10	>768	180	10000000	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MS						Weight: 96 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3

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

Max Horz 2=87(LC 12)

Max Uplift 2=-244(LC 12), 6=-244(LC 13) Max Grav 2=1040(LC 1), 6=1040(LC 1)

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

TOP CHORD

REACTIONS.

2-3=-1777/507, 3-4=-1636/509, 4-5=-1636/509, 5-6=-1777/507

BOT CHORD

2-10=-365/1539, 8-10=-190/1037, 6-8=-379/1539

WEBS

4-8=-197/692, 5-8=-254/163, 4-10=-197/692, 3-10=-254/163

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 1-6-0, Interior(1) 1-6-0 to 10-3-0, Exterior(2R) 10-3-0 to 13-3-0, Interior(1) 13-3-0 to 22-0-0 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.

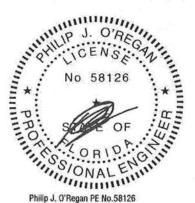
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=244, 6=244.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20



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

Rigid ceiling directly applied or 9-5-9 oc bracing.

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

June 23,2021

🗥 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 MTeWb 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 Components and available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



CORNERSTONE - LOT 84 EC Job Truss Truss Type Qty T24444454 2820752 T01A Common Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:50:55 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-mzdyI4mMGo6bxqEqGqUIq7KzrseWYYfB3QhjyHz3i1U 10-3-0 4-11-13 12-11-8 2-8-8 5-3-3 Scale = 1:33.9 4×4 = 2x4 || 6.00 12 2x4 \\ 94-8 \aleph 7 3x4 = 3x4 = 3x6 = 6-10-14 PLATES GRIP SPACING-CSI. LOADING (psf) 2-0-0 TCLL 20.0 Plate Grip DOL 1.25 TC 0.28 Vert(LL) -0.04 7-10 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.42 Vert(CT) -0.09 7-10 >999 180 Rep Stress Incr YES Code FBC2020/TPI2014 BCLL 0.0 YES WB 0.26 Horz(CT) 0.01 6 n/a n/a FT = 20% Matrix-MS Weight: 70 lb BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No 2 except end verticals. 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=173(LC 12) Max Uplift 2=-131(LC 12), 6=-119(LC 12) Max Grav 2=560(LC 1), 6=469(LC 1)

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

TOP CHORD 2

2-3=-686/219, 3-4=-552/214 2-7=-299/584

BOT CHORD 2-7=-299/58

WEBS 3-7=-281/213, 4-7=-166/456, 4-6=-404/212

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 1-6-0, Interior(1) 1-6-0 to 10-3-0, Exterior(2E) 10-3-0 to 12-9-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=131, 6=119.



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

June 23,2021

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

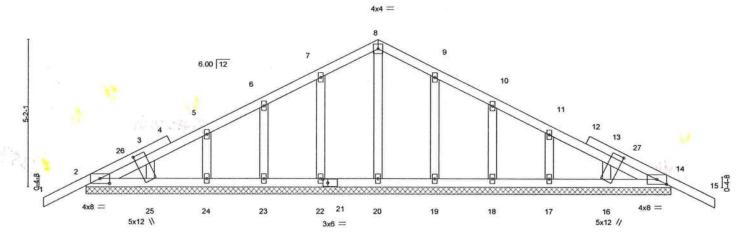
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall 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/ITPI1 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	CORNERSTONE - LOT 84 EC	
2820752	T01G	Common Supported Gable	1	1		T24444455
					Job Reference (optional)	
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,		8.430 s Jui	n 2 2021 MiTek Industries, Inc. Tue Jun 22 14:	50:57 2021 Page 1
			ID:kPNS_ZXjPFP6	UIAx1rKNC	syClRc-iMljjlocoPMJB8OCOEWmvYPMggQw0V	MUUWkAp1Az3i1S
-1-6-		10-3-0			20-6-0	, 22-0-0
1-6-0	0	10-3-0			10-3-0	1-6-0

Scale = 1:38.9



						20-6-0						î.
						20-6-0						
Plate Off	sets (X,Y)-	[2:0-4-0,0-2-1], [14:0-4-0,	,0-2-1], [16:0-1	-13,1-4-6], [2	1:0-2-0,0-1-	8], [25:0-1-13,1-4-6	5]					
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	0.13	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	15	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S	8 0					Weight: 110 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 BOT CHORD

2x4 SP No.3 **OTHERS**

BRACING-

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

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

REACTIONS. All bearings 20-6-0.

Max Horz 2=-83(LC 13)

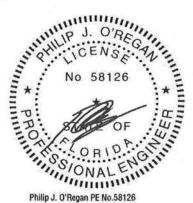
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 22, 23, 24, 25, 19, 18, 17, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 22, 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.
 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 10-3-0, Corner(3R) 10-3-0 to 13-3-0, Exterior(2N) 13-3-0 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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.
 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) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
 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, 22, 23, 24, 25, 19, 18, 17, 16.



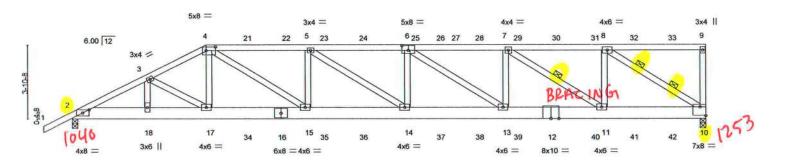
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

June 23,2021



Job		Truss			Truss Type		Qty	Ply	CORNERSTONE - LOT 84 EC	T24444456
2820752		T02			Half Hip Girder		1	1		
									Job Reference (optional)	-
Builders FirstSc	ource (Lake C	ity,FL),	Lake	City, FL	- 32055,		7	8.430 s Ju	un 2 2021 MiTek Industries, Inc.	Tue Jun 22 14:50:59 2021 Page 1
							ID:kPNS_ZX	PFPeUIAx1	rKNCsyClRc-elsT8RpsK1c1QRXb	VfYE_zUatU0xUBdn_1fw53z3i1Q
, -1-6-0	3-10-15	- 7	7-0-0	- 10	12-3-1	17-4-6	, 2	2-5-10	27-6-15	32-10-0
1-6-0	3-10-15	(1)	3-1-1	100	5-3-1	5-1-5	. The	5-1-5	5-1-5	5-3-1

Scale = 1:57.8



		0-15 7-0-0	12-3-1	17-4-6		22-5-10		27-6-15	32-10-	0
	3-1	0-15 3-1-1	5-3-1	5-1-5	- L	5-1-5		5-1-5	5-3-1	
Plate Offse	ts (X,Y)-	[2:0-4-0,0-1-15], [4:0-5-1	2,0-2-4], [6:0-4-0,	0-3-0], [10:Edge,0-5-8]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.34 14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.32	Vert(CT)	-0.52 14-15	>746	180		
BCLL	0.0	Rep Stress Incr	NO	WB 0.90	Horz(CT)	0.09 10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	TPI2014	Matrix-MS					Weight: 230 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*

1-4: 2x4 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3

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

Max Horz 2=143(LC 8)

Max Uplift 10=-1253(LC 5), 2=-1040(LC 8)

Max Grav 10=2739(LC 1), 2=2463(LC 1)

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

TOP CHORD 2-3=-4719/2036, 3-4=-4810/2150, 4-5=-5927/2664, 5-6=-6302/2841, 6-7=-5470/2474,

7-8=-3445/1566, 9-10=-283/146

BOT CHORD 2-18=-1891/4180, 17-18=-1891/4180, 15-17=-1959/4309, 14-15=-2664/5927,

13-14=-2842/6302, 11-13=-2474/5470, 10-11=-1566/3445

WEBS 3-17=-251/243, 4-17=-297/720, 4-15=-907/1978, 5-15=-879/439, 5-14=-229/492,

6-13=-1005/489, 7-13=-363/840, 7-11=-2439/1093, 8-11=-698/1626, 8-10=-4081/1852

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; 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.
- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1253, 2=1040.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 90 lb up at 7-0-0, 110 lb down and 90 lb up at 9-0-12, 110 lb down and 90 lb up at 11-0-12, 110 lb down and 90 lb up at 13-0-12, 110 lb down and 90 lb up at 15-0-12, 110 lb down and 90 lb up at 15-0-12, 110 lb down and 90 lb up at 21-0-12, 110 lb down and 90 lb up at 23-0-12, 110 lb down and 90 lb up at 23-0-12, 110 lb down and 90 lb up at 25-0-12, 110 lb down and 90 lb up at 25-0-12, 110 lb down and 90 lb up at 25-0-12, and 110 lb down and 90 lb up at 25-0-12, and 110 lb down and 90 lb up at 23-0-12, and 110 lb down and 90 lb up at 31-3-4 on top chord, and 335 lb down and 236 lb up at 7-0-0, 86 lb down and 60 lb up at 90-12, 86 lb down and 60 lb up at 11-0-12, 86 lb down and 60 lb up at 15-0-12, 86 lb down and 60 lb up at 15-0-12, 86 lb down and 60 lb up at 23-0-12, 86 lb down and 60 lb up at 25-0-12, 86 lb down and 60 lb up at 27-0-12, 86 lb down and 60 lb up at 23-0-12, 86 lb down and 60 lb up at 25-0-12, 86 lb down and 60 lb up at 27-0-12, 86 lb down and 80 lb up at 27-0-12, 86 lb down and 80 lb up at 27-0-

No 58126

No 58126

No 58126

Philip J. O'Regan PE No.58126

Structural wood sheathing directly applied or 2-5-9 oc purlins,

8-10

Rigid ceiling directly applied or 7-1-3 oc bracing.

except end verticals.

1 Row at midpt

2 Rows at 1/3 pts

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

June 23,2021



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	900000000000000000000000000000000000000
2820752	T02	Half Hip Girder	1	1		T24444456
					Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:00 2021 Page 2

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf) Vert: 1-4=-54, 4-9=-54, 2-10=-20

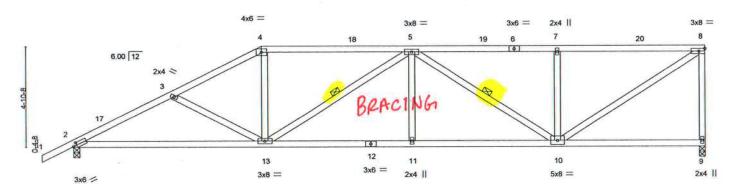
Concentrated Loads (lb)

Vert: 4=-110(F) 16=-64(F) 17=-335(F) 14=-64(F) 12=-64(F) 21=-110(F) 22=-110(F) 23=-110(F) 24=-110(F) 25=-110(F) 26=-110(F) 26=-110(F) 29=-110(F) 30=-110(F) 31=-110(F) 32=-110(F) 32=-110(F) 32=-110(F) 34=-64(F) 35=-64(F) 35=-64



Job	Truss	Truss Type	Qty Ply	CORNERSTONE - LOT 84 EC T24444457
2820752	T03	Half Hip	2 1	PROPERTY OF THE PROPERTY OF TH
		57		Job Reference (optional)
Builders FirstSource (Lake	City.FL). Lake City, FL -	32055,	8.430 s Jui	n 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:01 2021 Page 1
		ID:k	PNS ZXiPFPeUIAx	1rKNCsyClRc-b7_EZ7r7seslflh_d4ai3OawPHbFyAh4RL81Axz3i1O
, -1-6-0 , 4	9-8 , 9-0-0	16-1-4	23-0-12	2 30-2-0
1-6-0 4	9-8 4-2-8	7-1-4	6-11-8	7-1-4

Scale = 1:53.3



	T-	9-0-0	10		16-1-4		23	3-0-12	2		30-2-0	
	1	9-0-0			7-1-4	1	6	-11-8			7-1-4	
Plate Offse	ets (X,Y)-	[2:0-1-15,0-1-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	oc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.15 13-	16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.32 13-	16	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	k-MS						Weight: 162 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

(size) 9=0-3-8, 2=0-3-8

Max Horz 2=178(LC 12) Max Uplift 9=-289(LC 9), 2=-294(LC 12) Max Grav 9=1109(LC 1), 2=1194(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-2044/500, 3-4=-1794/426, 4-5=-1572/413, 5-7=-1363/352, 7-8=-1363/352,

8-9=-1046/306

2-13=-550/1800, 11-13=-477/1869, 10-11=-477/1869 **BOT CHORD**

WEBS 3-13=-275/156, 4-13=-54/518, 5-13=-456/170, 5-11=0/254, 5-10=-606/229,

7-10=-398/193, 8-10=-413/1601

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 1-6-3, Interior(1) 1-6-3 to 9-0-0, Exterior(2R) 9-0-0 to 13-3-3, Interior(1) 13-3-3 to 30-0-4 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.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=289, 2=294.



Structural wood sheathing directly applied or 3-8-13 oc purlins,

5-13, 5-10

Rigid ceiling directly applied or 7-11-7 oc bracing.

except end verticals.

1 Row at midpt

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

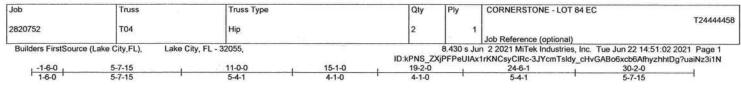
June 23,2021

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 MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

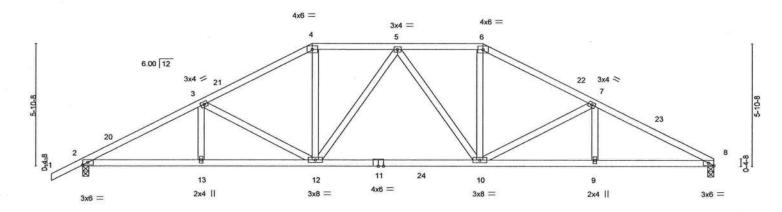
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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





Scale = 1:53.1



	1	5-7-15	11-0-0		19-2-0			4-6-1	30-2-0	
		5-7-15	5-4-1		8-2-0			5-4-1	5-7-15	
Plate Offs	ets (X,Y)-	[8:0-2-15,Edge]								
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	-0.20 10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.36 10-12	>999	180	100000000000000000000000000000000000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.09 8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS					Weight: 157 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS REACTIONS.

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

2x4 SP No.3

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

Max Horz 2=104(LC 12)

Max Uplift 8=-238(LC 13), 2=-271(LC 12) Max Grav 8=1205(LC 2), 2=1274(LC 2)

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

TOP CHORD 2-3=-2239/431, 3-4=-1790/370, 4-5=-1563/363, 5-6=-1565/359, 6-7=-1793/372,

7-8=-2243/442 BOT CHORD

2-13=-409/1962, 12-13=-409/1962, 10-12=-234/1628, 9-10=-338/1978, 8-9=-338/1978

WEBS 3-12=-475/195, 4-12=-80/584, 6-10=-79/586, 7-10=-488/205

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 1-6-3, Interior(1) 1-6-3 to 11-0-0, Exterior(2R) 11-0-0 to 15-1-0, Interior(1) 15-1-0 to 19-2-0, Exterior(2R) 19-2-0 to 23-5-3, Interior(1) 23-5-3 to 30-2-0 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 (it=lb) 8=238, 2=271.



Structural wood sheathing directly applied or 3-8-6 oc purlins.

Rigid ceiling directly applied or 9-2-7 oc bracing.

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

June 23,2021

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

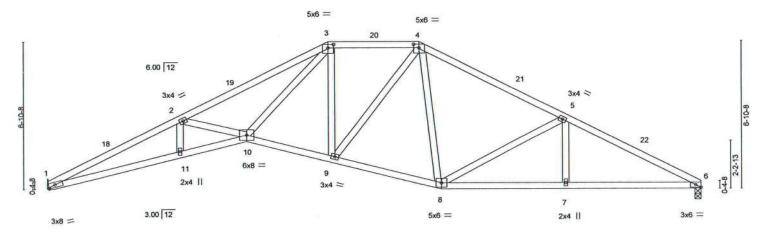
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

AMSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



CORNERSTONE - LOT 84 EC Job Truss Truss Type Qty T24444459 2820752 T05 Hip Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:03 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:kPNS_ZXjPFPeUIAx1rKNCsyCIRc-XW6_psNNF6Tv3rMkVdA9pfls5FYQ2NMvfd8Eqz3i1M 23-11-0 30-2-0 23-11-0 6-9-0 6-10-0

Scale = 1:51.4



L		6-2-0	9-2-12	13-0-0		18-2-0	-1		23-11-0		30-2-0	
		6-2-0	3-0-12	3-9-4		5-2-0	1		5-9-0		6-3-0	
Plate Offse	ets (X,Y)-	[1:0-3-10,0-1-8], [3:0-3	-0,0-2-0], [4:0-3-	0,0-2-0], [6:0-	2-15,Edge]			_			_	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (oc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.23 10	-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.42 10	-11	>863	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.24	6	n/a	n/a		
BCDL	10.0	Code FBC2020	D/TPI2014	Matri	K-MS						Weight: 151 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*

3-4: 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

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

Max Horz 1=97(LC 16)

Max Uplift 1=-235(LC 12), 6=-235(LC 13) Max Grav 1=1116(LC 1), 6=1116(LC 1)

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

TOP CHORD 1-2=-3771/840, 2-3=-3258/687, 3-4=-1579/401, 4-5=-1571/372, 5-6=-2092/433

BOT CHORD 1-11=-813/3418, 10-11=-813/3424, 9-10=-260/1641, 8-9=-190/1370, 7-8=-334/1822,

6-7=-334/1822 WEBS

2-10=-523/267, 3-10=-427/1902, 3-9=-363/154, 4-9=-130/495, 5-8=-574/241, 5-7=0/256

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) 0-0-0 to 3-0-3, Interior(1) 3-0-3 to 13-0-0, Exterior(2E) 13-0-0 to 17-2-0, Exterior(2R) 17-2-0 to 21-5-3, Interior(1) 21-5-3 to 30-2-0 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.
- * 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.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=235, 6=235,



Structural wood sheathing directly applied or 3-9-15 oc purlins.

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

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

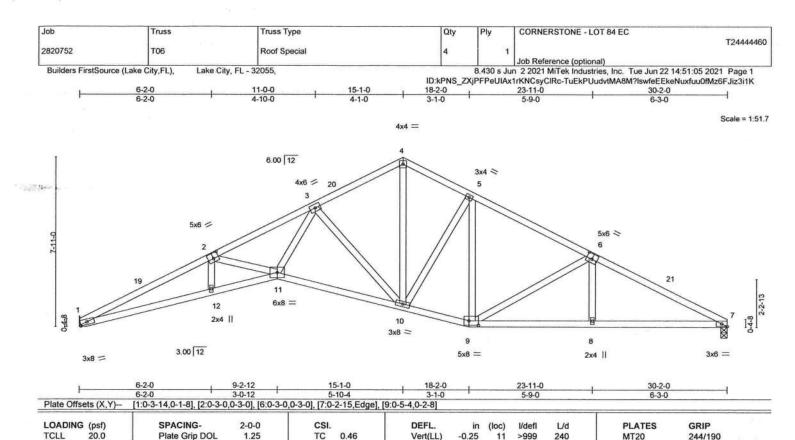
June 23,2021

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





Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.48 10-11

0.26

>753

180

Rigid ceiling directly applied or 6-7-1 oc bracing.

Structural wood sheathing directly applied or 2-8-9 oc purlins.

LUMBER-

REACTIONS.

TCDL

BCLL

BCDI

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

7.0

0.0

10.0

WEBS 2x4 SP No.3

(size) 1=Mechanical, 7=0-3-8

Max Horz 1=112(LC 12)

Max Uplift 1=-231(LC 12), 7=-231(LC 13) Max Grav 1=1116(LC 1), 7=1116(LC 1)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD

1-2=-3726/814, 2-3=-3302/695, 3-4=-1448/365, 4-5=-1440/370, 5-6=-1585/367,

1.25

YES

BC

WB 0.97

Matrix-MS

0.88

6-7=-2084/418

BOT CHORD 1-12=-800/3371, 11-12=-799/3378, 10-11=-418/2154, 9-10=-196/1404, 8-9=-313/1812,

7-8=-313/1810

2-11=-415/204, 3-11=-373/1754, 3-10=-1286/371, 4-10=-246/1079, 5-10=-276/184, WEBS 6-9=-531/206, 6-8=0/264

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) 0-0-0 to 3-0-3, Interior(1) 3-0-3 to 15-1-0, Exterior(2R) 15-1-0 to 18-3-12, Interior(1) 18-3-12 to 30-2-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=231, 7=231.



Weight: 157 lb

FT = 20%

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

June 23,2021

🚵 WARNING - Varify 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 MTEk® 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 individual temporary and permanent bracing is always required for stability and 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/PPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



CORNERSTONE - LOT 84 EC Qty Ply Job Truss Truss Type T2444461 T07 Roof Special 2820752 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:06 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:kPNS ZXiPFPeUIAx1rKNCsyClRc-x5n7cqvFgAU1mWaxQdAtmRHp8lHwdLlpbdsor9z3i1J 23-11-0 5-9-0 30-2-0 6-3-0 1-6-0 11-0-0 4-10-0 6.00 12 3x4 > 4x6 / 5x6 < 6x8 = 13 3x8 = 10 3.00 12 5x8 = 2x4 || 3x6 = 3x8 = [1:0-3-14,0-1-8], [2:0-3-0,0-3-0], [6:0-3-0,0-3-0], [7:0-2-15,Edge], [10:0-5-4,0-2-8] Plate Offsets (X,Y) CSI. DEFL. I/defl L/d PLATES GRIP SPACINGin (loc) LOADING (psf) 2-0-0 244/190 -0.25 >999 240 MT20 20.0 Plate Grip DOL 1.25 TC 0.46 Vert(LL) TCLL TCDL Lumber DOL 1.25 BC 0.87 Vert(CT) -0.48 11-12 >755 180 7.0 BCLL 0.0 Rep Stress Incr YES WB 0.97 Horz(CT) 0.26 n/a n/a FT = 20% Code FBC2020/TPI2014 Weight: 160 lb BCDL 10.0 Matrix-MS BRACING-LUMBER-Structural wood sheathing directly applied or 2-8-9 oc purlins. 2x4 SP No.2 TOP CHORD TOP CHORD BOT CHORD Rigid ceiling directly applied or 6-8-2 oc bracing. **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS.

(size) 1=Mechanical, 7=0-3-8

Max Horz 1=-134(LC 13)

Max Uplift 1=-231(LC 12), 7=-264(LC 13) Max Grav 1=1114(LC 1), 7=1199(LC 1)

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

1-2=-3718/802, 2-3=-3294/683, 3-4=-1443/361, 4-5=-1435/359, 5-6=-1578/357, 6-7=-2064/408

1-13=-778/3364, 12-13=-777/3371, 11-12=-400/2148, 10-11=-177/1398, 9-10=-283/1791, BOT CHORD

7-9=-283/1789

2-12=-415/205, 3-12=-363/1750, 3-11=-1284/365, 4-11=-243/1075, 5-11=-274/189,

6-10=-513/197, 6-9=0/262

NOTES-

WEBS

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) 0-0-0 to 3-0-3, Interior(1) 3-0-3 to 15-1-0, Exterior(2R) 15-1-0 to 18-3-12, Interior(1) 18-3-12 to 31-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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) 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.

6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=231, 7=264.

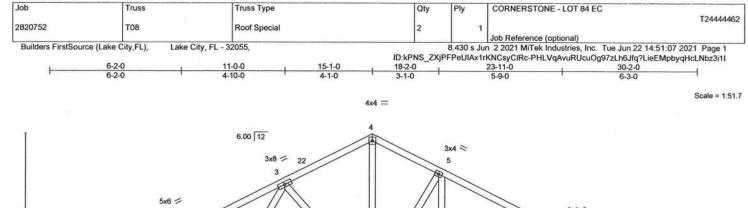


Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date

June 23,2021

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





0-458	21	14 2x4	13 5x8 =		12				5x6 6		23 4x4 = 7	0-4-8 2-2-13
3x6 ≠	3.00 12				3x8 ≈		11 5x8 =		10 4x4 =		9 2x4 3x6 =	
	6-2-0 6-2-0	9-2-12 3-0-12	1	15-1-0 5-10-4		18-2-0 3-1-0	-1	23-11-0 5-9-0		28-2-0 4-3-0	30-2-0	
Plate Offsets (X,Y)-	[2:0-3-0,0-3-0], [6:0	-3-0,0-3-0], [8	:0-2-15,Edg	e], [11:0-5-4,0-2-	-8]							

Plate Off	sets (X,Y)-	[2:0-3-0,0-3-0], [6:0-3-0,0)-3-0], [8:0-2-15	,Edge], [11:0	0-5-4,0-2-8]							
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	0.43	Vert(LL)	-0.21	13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.40	12-13	>849	180	50000000000	300.0101.01.01.000 I
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.21	9	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 165 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

> (size) 1=0-3-8, 9=0-3-8 Max Horz 1=112(LC 12)

Max Uplift 1=-220(LC 12), 9=-249(LC 13)

Max Grav 1=1031(LC 1), 9=1202(LC 1)

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

TOP CHORD 1-2=-3388/769, 2-3=-2944/648, 3-4=-1236/316, 4-5=-1231/317, 5-6=-1298/294,

6-7=-1321/267

BOT CHORD 1-14=-759/3063, 13-14=-758/3067, 12-13=-384/1897, 11-12=-150/1139, 10-11=-163/1140 WEBS 2-13=-428/207, 3-13=-353/1602, 3-12=-1194/359, 4-12=-205/897, 7-10=-272/1247,

7-9=-1109/310

NOTES-

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

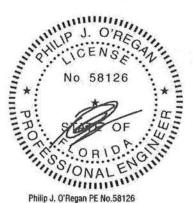
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-3, Interior(1) 3-0-3 to 15-1-0, Exterior(2R) 15-1-0 to 18-3-12, Interior(1) 18-3-12 to 30-2-0 zone; cantilever 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=220, 9=249,



Structural wood sheathing directly applied or 2-10-7 oc purlins.

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

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

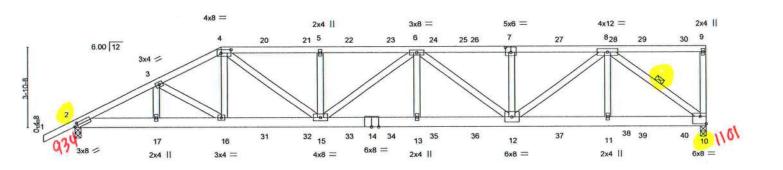
June 23,2021

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 MiTek® connectors. This knot introduced 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 properly anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Componiately Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss		Truss Type		Qty	Ply	CORNERSTONE - LOT 84 EC		
ACCOUNT OF THE PARTY OF T	0.000		1 Marie 1 Mari		1000	1			T2444463
2820752	T10		Half Hip Girder		1	1			
The second second	2000		100				Job Reference (optional)		
Builders FirstSour	ce (Lake City.FL).	Lake City, Fl	- 32055,			8.430 s Ju	in 2 2021 MiTek Industries, Inc.	Tue Jun 22 14:51:11 20	021 Page 1
	1997			ID	KPNS ZXIP	FPeUIAx1rl	KNCsyClRc-I2b?fYzOVj7KsHSvi	CBm2TV_gKJzNlfvYkva	ZWMz3i1E
, -1-6-0	3-10-15	7-0-0	11-8-10	16-3-9	:	20-10-7	25-5-6	30-2-0	
160	3 10 15	3.1.1	4-8-10	4-6-14		4-6-14	4-6-14	4-8-10	



		10-15 7-0-0		3-10	16-3-9		20-10-7		25-5-6	30-2-0	
	' 3-	10-15 3-1-1	4-8	-10	4-6-14		4-6-14		4-6-14	4-8-10)
Plate Offse	ts (X,Y)	[2:0-1-12,0-1-8], [4:0-5-12	2,0-2-0], [7:0-3-	0,0-3-0], [10	:Edge,0-4-4]						
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	0.43	Vert(LL)	0.30 13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.47 13-15	>771	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.12 10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 194 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*

1-4: 2x4 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=143(LC 8)
Max Uplift 10=-1101(LC 5), 2=-934(LC 8) Max Grav 10=2450(LC 1), 2=2233(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. RD 2-3=-4411/1892, 3-4=-4280/1912, 4-5=-5045/2266, 5-6=-5045/2266, 6-7=-4477/2015, TOP CHORD

7-8=-4472/2012

2-17=-1767/3916, 16-17=-1767/3916, 15-16=-1743/3830, 13-15=-2357/5247, **BOT CHORD**

12-13=-2357/5247, 11-12=-1246/2766, 10-11=-1246/2766 3-16=-256/158, 4-16=-275/662, 4-15=-716/1513, 5-15=-530/274, 6-15=-254/139, 6-13=-82/380, 6-12=-969/474, 7-12=-483/248, 8-12=-964/2147, 8-11=-78/404,

NOTES-

WEBS

- 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; 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. Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1101, 2=934.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 90 lb up at 7-0-0, 110 lb down and 90 lb up at 9-0-12, 110 lb down and 90 lb up at 13-0-12, 110 lb down and 90 lb up at 15-0-12, 110 lb down and 90 lb up at 17-0-12, 110 lb down and 87 lb up at 19-0-12, 110 lb down and 90 lb up at 21-0-12, 110 lb down and 90 lb up at 23-0-12, 110 lb down and 90 lb up at 25-0-12, 110 lb down and 90 lb up at 27-0-12, and 111 lb down and 90 lb up at 29-0-12, and 28 lb down and 20 lb up at 30-0-4 on top chord, and 335 lb down and 236 lb up at 7-0-0, 86 lb down and 60 lb up at 9-0-12, 86 lb down and 60 lb up at 11-0-12, 86 lb down and 60 lb up at 13-0-12, 86 lb down and 60 lb up at 15-0-12, 86 lb down and 60 lb up at 17-0-12, 86 lb down and 60 lb up at 19-0-12, 86 lb down and 60 lb up at 21-0-12, 86 lb down and 60 lb up at 23-0-12, 86 lb down and 60 lb up at 25-0-12, and 86 lb down and 60 lb up at 27-0-12, and 87 lb down and 60 lb up at 29-0-12 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).



Structural wood sheathing directly applied or 2-6-12 oc purlins,

8-10

Rigid ceiling directly applied or 4-9-14 oc bracing.

except end verticals.

1 Row at midpt

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

June 23,2021

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 MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	T0.1414400
2820752	T10	Half Hip Girder	1	1		T24444463
2 10 10 10 10 10 10 10 10 10 10 10 10 10					Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:11 2021 Page 2 ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-l2b?fYzOVj7KsHSvCBm2TV_gKJzNlfvYkvaZWMz3i1E

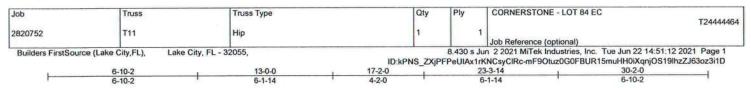
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

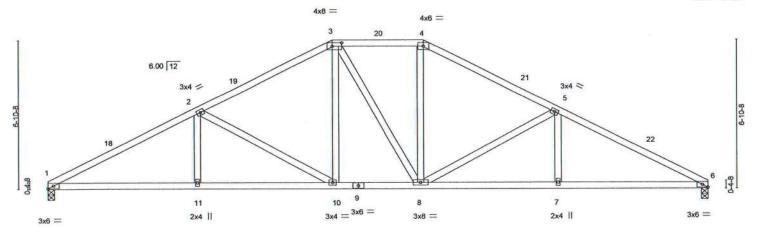
Vert: 1-4=-54, 4-9=-54, 2-10=-20

Concentrated Loads (lb)
Vert: 4=-110(B) 9=-20 16=-335(B) 7=-110(B) 12=-64(B) 20=-110(B) 21=-110(B) 22=-110(B) 23=-110(B) 24=-110(B) 26=-110(B) 27=-110(B) 29=-110(B) 30=-111(B) 31=-64(B) 32=-64(B) 33=-64(B) 35=-64(B) 35=-64(B) 37=-64(B) 38=-64(B) 39=-64(B) 40=-65(B)





Scale = 1:51.0



-		6-10-2		3-0-0		17-2-0		-	1-3-14		30-2-0	
		6-10-2		-1-14		4-2-0		6	-1-14		6-10-2	
Plate Offse	ets (X,Y)-	[3:0-5-4,0-2-0], [6:0-2-15	Edge]			Ţ						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.10	10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.19	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08	6	n/a	n/a	PACE STOCK NOT THE STOCK NAME OF THE STOCK NAME	
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	k-MS						Weight: 154 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=0-3-8, 6=0-3-8

Max Horz 1=97(LC 12) Max Uplift 1=-235(LC 12), 6=-235(LC 13) Max Grav 1=1116(LC 1), 6=1116(LC 1)

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

TOP CHORD 1-2=-2058/420, 2-3=-1499/361, 3-4=-1272/358, 4-5=-1500/361, 5-6=-2057/421 **BOT CHORD** 1-11=-405/1781, 10-11=-405/1781, 8-10=-196/1271, 7-8=-320/1781, 6-7=-320/1781 WEBS 2-11=0/283, 2-10=-596/240, 3-10=-83/399, 4-8=-74/399, 5-8=-595/240, 5-7=0/282

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) 0-0-0 to 3-0-3, Interior(1) 3-0-3 to 13-0-0, Exterior(2E) 13-0-0 to 17-2-0, Exterior(2R) 17-2-0 to 21-5-3, Interior(1) 21-5-3 to 30-2-0 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=235, 6=235.



Structural wood sheathing directly applied or 3-7-8 oc purlins.

Rigid ceiling directly applied or 9-0-15 oc bracing.

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

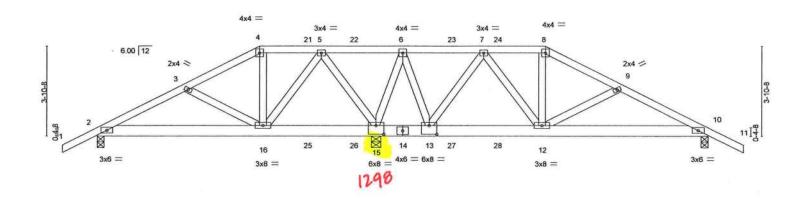
June 23,2021

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 MiTek® connectors. This date 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/ITP11 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	з Туре				Qty	Ply	CORNE	RSTONE - LOT 84 E	С	
2820752	T12		Hip G	Sirder				1	1				T244444
	5323			2017/07/2017							erence (optional)		
Builders FirstSourc	e (Lake City,FL),	Lake City, FL -	32055,					ID-LONG 7			MiTek Industries, Inc. CIRc-idG8IZ?HoeVvil		
1-6-0	3-10-15	7-0-0		9-7-15	1	13-2-0	11	16-8-1		9-4-0	22-5-1	26-4-0	27-10-0
1-6-0	3-10-15	3-1-1		2-7-15		3-6-1		3-6-1	2-	7-15	3-1-1	3-10-15	1-6-0

Scale: 1/4"=1"



	1	7-0-0		12-0-4		14-3-12	19-4-0		1	26-4-0	
		7-0-0	V	5-0-4		2-3-7	5-0-4			7-0-0	-
Plate Offse	ets (X,Y)-	[13:0-4-0,0-4-8], [15:0-4-	0,0-4-8]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	0.04 12-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.05 12-20	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.01 10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	x-MS					Weight: 162 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.2

TOP CHORD BOT CHORD 2x6 SP No.2 WEBS

2x4 SP No.3

(size) 2=0-3-8, 15=0-4-15, 10=0-3-8

Max Horz 2=-63(LC 13) Max Uplift 2=-170(LC 8), 15=-1298(LC 5), 10=-312(LC 4) Max Grav 2=501(LC 19), 15=2867(LC 1), 10=783(LC 20)

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

TOP CHORD

2-3=-596/243, 3-4=-404/182, 4-5=-316/181, 5-6=-358/931, 7-8=-897/486, 8-9=-1043/530, 9-10=-1229/560

BOT CHORD 2-16=-216/519, 13-15=-438/233, 12-13=-253/523, 10-12=-463/1081 WEBS

5-16=-361/863, 5-15=-1264/569, 6-15=-1586/764, 6-13=-489/1054, 7-13=-1051/487,

7-12=-284/661

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; porch right exposed; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=170, 15=1298, 10=312.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 90 lb up at 7-0-0, 110 lb down and 90 lb up at 9-0-12, 110 lb down and 90 lb up at 11-0-12, 110 lb down and 83 lb up at 13-0-12, 110 lb down and 83 lb up at 13-3-4, 110 lb down and 90 lb up at 15-3-4, and 110 lb down and 90 lb up at 17-3-4, and 230 lb down and 173 lb up at 19-4-0 on top chord, and 335 lb down and 236 lb up at 7-0-0, 86 lb down and 60 lb up at 9-0-12, 86 lb down and 60 lb up at 11-0-12, 86 lb down and 60 lb up at 13-0-12, 86 lb down and 60 lb up at 15-3-4, and 86 lb down and 60 lb up at 17-3-4, and 335 lb down and 236 lb up at 19-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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

No 58126

No 58126

No Fills OR ID

Phills J. O'REG

No FREG

NO F

Structural wood sheathing directly applied or 5-3-0 oc purlins.

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

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

June 23,2021

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 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 anage. 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 20501



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	022478888888
2820752	T12	Hip Girder	1	1		T24444465
A					Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:14 2021 Page 2 ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-idG8IZ?HoeVvjIBUuJJI57cAEX9qV59_RtoD7hz3i1B

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 8-11=-54, 2-10=-20

Concentrated Loads (lb)
Vert: 4=-110(B) 8=-182(B) 14=-129(B) 16=-335(B) 6=-219(B) 12=-335(B) 21=-110(B) 22=-110(B) 23=-110(B) 24=-110(B) 25=-64(B) 26=-64(B) 27=-64(B)



CORNERSTONE - LOT 84 EC Job Truss Truss Type Qty Ply T13 2820752 Half Hip Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:16 2021 Page 1 ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-f0OujF0XKFldz2Ls?kMDAYhYbKrfzwkHuBHKCaz3i19 Scale = 1:28 4 4x8 = 2x4 || 3 10 0 6.00 12 3x6 < 1002 11 12 13 15 7 6 3x10 || 8x10 = 4-7-6 3-9-8 Plate Offsets (X,Y)-[1:0-3-7,0-1-4], [3:0-5-4,0-2-0], [6:0-3-8,0-5-4] SPACING-(loc) LOADING (psf) 2-0-0 CSL DEFL in I/defi L/d **PLATES** GRIP Plate Grip DOL TC TCLL 20.0 1.25 0.34 Vert(LL) -0.06 6-7 244/190 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.27 -0.10 Vert(CT) 6-7 >999 180 BCLL 0.0 0.78 Rep Stress Incr NO WB Horz(CT) 0.02 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS FT = 20% Weight: 185 lb LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-10-5 oc purlins, BOT CHORD 2x8 SP 2400F 2.0E except end verticals. WEBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 5=0-4-5

Max Horz 1=143(LC 27)

Max Uplift 1=-890(LC 8), 5=-1002(LC 8) Max Grav 1=4089(LC 1), 5=4575(LC 1)

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

TOP CHORD

1-2=-6263/1358, 2-3=-3675/801

BOT CHORD 1-7=-1308/5579, 6-7=-1308/5579, 5-6=-771/3389

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

WEBS

2-7=-464/2263, 2-6=-2678/651, 3-6=-866/4093, 3-5=-4302/978

NOTES-

- 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: 2x8 - 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-16; 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; 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.

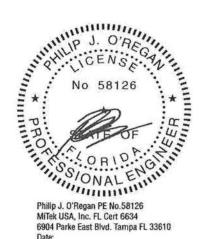
6) Provide adequate drainage to prevent water ponding. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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) 1=890, 5=1002.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1096 lb down and 255 lb up at 1-2-12, 1096 lb down and 251 lb up at 3-2-12, 1096 lb down and 251 lb up at 5-2-12, 1096 lb down and 251 lb up at 7-2-12, 1094 lb down and 251 lb up at 9-2-12, and 1094 lb down and 251 lb up at 11-2-12, and 1101 lb down and 244 lb up at 13-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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

June 23,2021

Design valid for use only with MTeke 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 Com, Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	T24444466
2820752	T13	Half Hip Girder	1	2	Job Reference (optional)	
Builders FirstSour	rce (Lake City,FL), Lake	City, FL - 32055,			n 2 2021 MiTek Industries, Inc. Tue Jun 22 14	

ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-f0OujF0XKFldz2Ls?kMDAYhYbKrfzwkHuBHKCaz3i19

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-54, 3-4=-54, 1-5=-20

Concentrated Loads (lb)

Vert: 5=-1101(F) 9=-1096(F) 11=-1096(F) 12=-1096(F) 13=-1096(F) 14=-1094(F) 15=-1094(F)

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

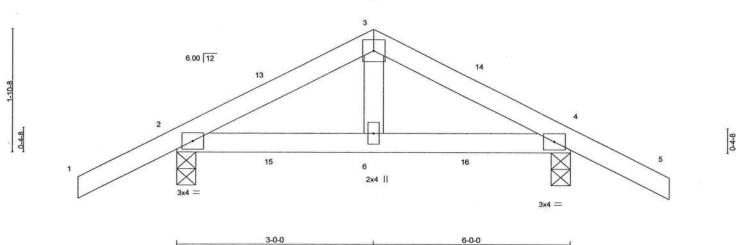
Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

ANSITPH 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	CORNERSTONE - LOT 84 EC	
2820752	T14	Common	1	1		T24444467
					Job Reference (optional)	
Builders FirstSource	(Lake City,FL), Lake	City, FL - 32055,		8.430 s Ju	un 2 2021 MiTek Industries, Inc. Tue	Jun 22 14:51:19 2021 Page 1
			ID:kPNS_ZXjPFF	eUIAx1rKN	CsyClRc-3b41LH3PcA7BqW3Rgsvwc	BJ6WYv5ASwja9W_ouz3i16
L	-1-6-0	3-0-0		6-0)-0	7-6-0
	1-6-0	3-0-0		3-0	0-0	1-6-0

Scale = 1:16.9



				3-0-0 3-0-0				6-0 3-0			_	
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	0.17	Vert(LL)	0.01	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.01	6-9	>999	180	1000000	
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MP						Weight: 26 lb	FT = 20%

BRACING-

LUMBER-

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

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.

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

Max Horz 2=33(LC 12)

Max Uplift 2=-81(LC 12), 4=-81(LC 13) Max Grav 2=303(LC 1), 4=303(LC 1)

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

TOP CHORD 2-3=-241/393, 3-4=-241/393

- Unbalanced roof live loads have been considered for this design.
 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 3-0-0, Exterior(2R) 3-0-0 to 6-0-0, Interior(1) 6-0-0 to 7-6-0 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
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

No 58126

No 58126

No Filip J. O'REG

No FILE

Philip J. O'REG

No FILE

Philip J. O'REG

No FILE

Philip J. O'REG

Philip J PROTESSIONAL No.

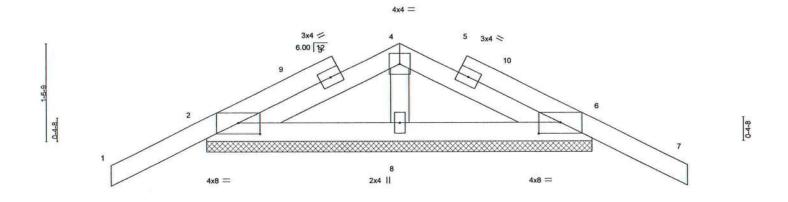
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 23,2021



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	2	CONTRACT OF THE PARTY OF THE PA
B. (1990) (1990)			lav.	1.00			T24444468
2820752	T14G	Common Supported Gable	1	1			
					Job Reference (optional)		
Builders FirstSou	rce (Lake City,FL), Lake Ci	ty, FL - 32055,		8.430 s Ju	in 2 2021 MiTek Industries, Inc.	Tue Jun 22 14:51:	20 2021 Page 1
		***	ID:kPNS_ZXjPF	PeUIAx1rK	NCsyClRc-XnePYd42NUF2Rged	dEaQ9LOsGlxFTv	vOtppFXLLz3i15
	-1-6-0	3-0-0		6	i-0-0	7-6-0	
	1-6-0	3-0-0	124	3	1-0-0	1-6-0	

Scale = 1:17.4



		51				6-0-0						
						6-0-0						
Plate Off	sets (X,Y)-	[2:0-4-0,0-2-1], [6:0-4-0,0	-2-1]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-P						Weight: 31 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 6-0-0 oc bracing.

REACTIONS.

(size) 2=6-0-0, 6=6-0-0, 8=6-0-0

Max Horz 2=-29(LC 13)

Max Uplift 2=-71(LC 12), 6=-76(LC 13), 8=-22(LC 12) Max Grav 2=200(LC 23), 6=200(LC 24), 8=212(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Enct., 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 3-0-0, Corner(3R) 3-0-0 to 6-0-0, Exterior(2N) 6-0-0 to 7-6-0 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 8. 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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

June 23,2021

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

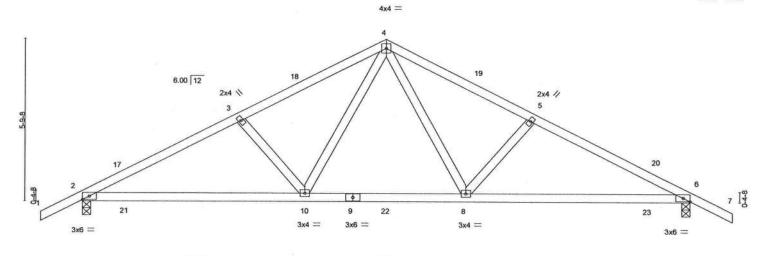
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type CORNERSTONE - LOT 84 EC Qty Ply T24444469 2820752 T15 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:21 2021 Page 1 ID:kPNS_ZXjPFPeUIAx1rKNCsyCIRc-?zBnmz4g8nNv3qDqoHx0tcPOpLUJeGk02S?5tnz3i14 10-10-0 5-2-1

Scale = 1:39 5



	-	7-11-8				13-8-8		1			21-8-0	
		7-11-8				5-9-0		1		7	7-11-8	
Plate Offse	ets (X,Y)-	[6:0-2-15,Edge]										
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	0.43	Vert(LL)	0.20	8-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.21	8-16	>999	180	. 2500000	
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	5.40023523					Weight: 102 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3

REACTIONS.

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

Max Horz 2=-92(LC 13) Max Uplift 2=-224(LC 9), 6=-224(LC 8) Max Grav 2=883(LC 1), 6=883(LC 1)

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

BOT CHORD

2-3=-1352/1239, 3-4=-1172/1209, 4-5=-1172/1209, 5-6=-1352/1239 2-10=-1035/1177, 8-10=-655/792, 6-8=-1050/1177

WEBS 4-8=-556/425, 5-8=-308/212, 4-10=-556/425, 3-10=-308/212

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, Interior(1) 1-6-0 to 10-10-0, Exterior(2R) 10-10-0 to 13-10-0, Interior(1) 13-10-0 to 23-2-0 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
- 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=224 6=224



Structural wood sheathing directly applied or 4-10-2 oc purlins.

Rigid ceiling directly applied or 5-1-10 oc bracing.

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

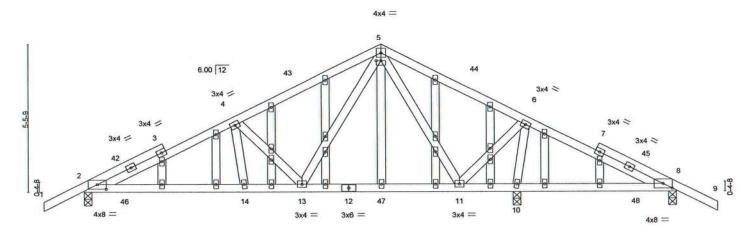
June 23,2021

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



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	
		550.				T24444470
2820752	T15G	GABLE	1	1	100	
					Job Reference (optional)	
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,			n 2 2021 MiTek Industries, Inc. Tue Jun 22 14:	
			ID:kPNS_ZX	PFPeUIAx1r	KNCsyClRc-xMJYBe6wgOddl7NCvi_sz1Ukl9Eu	u6BiJVmUCxgz3i12
-1-6-0	0 , 5-7-15	10-10-0		16-0-1	, 21-8-0	23-2-0
1-6-0	0 5-7-15	5-2-1	1	5-2-1	5-7-15	1-6-0

Scale = 1:40.8



	- 1	5-10-4		7-11-8	1	13-8-8		15-11-8		21-8-0	
	1	5-10-4		2-1-4		5-9-0		2-3-0		5-8-8	1
Plate Offse	ets (X,Y)-	[2:0-4-0,0-2-1], [5:0-2-0,0	-0-0], [8:0-4-0	.0-2-1]						,	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (le	oc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.07 11-	13 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.07 11-	13 >999	180	7.33446042	
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	10 n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 150 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-8-7 oc purlins.

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

REACTIONS.

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

Max Horz 2=87(LC 12)

Max Uplift 2=-163(LC 9), 8=-77(LC 13), 10=-239(LC 8) Max Grav 2=622(LC 1), 8=222(LC 24), 10=960(LC 1)

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

TOP CHORD

2-4=-855/798, 4-5=-614/655, 6-8=-252/287 2-14=-659/757, 13-14=-679/768, 11-13=-146/276, 10-11=-305/386, 8-10=-200/287 **BOT CHORD** 5-11=-390/261, 6-11=-574/566, 5-13=-564/433, 4-13=-413/384, 6-10=-873/784 WEBS

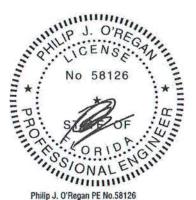
1) Unbalanced roof live loads have been considered for this design.

- 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 10-10-0, Exterior(2R) 10-10-0 to 13-10-0, Interior(1) 13-10-0 to 23-2-0 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
- 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) All plates are 2x4 MT20 unless otherwise indicated.

6) Gable studs spaced at 2-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=163, 10=239.



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

June 23,2021

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 MTek® connectors. This design is based only upon parameters known, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property 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 manage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Composately Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

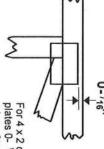


Symbols

PLATE LOCATION AND ORIENTATION



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



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

required direction of slots in connector plates This symbol indicates the

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

PLATE SIZE

×4

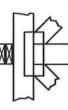
to slots. Second dimension is width measured perpendicular the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

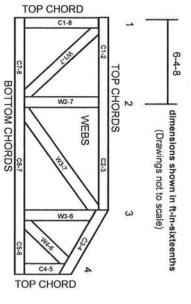
Industry Standards:

ANSI/TPI1: National Design Specification for Metal **Building Component Safety Information** Plate Connected Wood Truss Construction Design Standard for Bracing.

DSB-89

Installing & Bracing of Metal Plate Connected Wood Trusses Guide to Good Practice for Handling,

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

w

- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.

O

cn

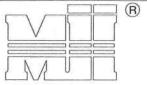
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 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 camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing. or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or after truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.

AUGUST 1, 2016

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

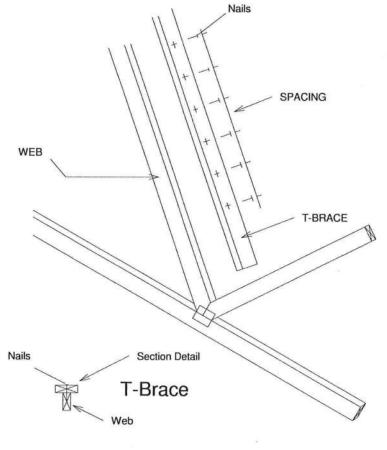
1	Nailing Pattern	
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

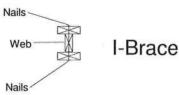
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

	Brace Size for One-Ply Truss						
	Specified Continuous Rows of Lateral Bracing						
Web Size	1	2					
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace					
2x6	2x6 T-Brace	2x6 I-Brace					
2x8	2x8 T-Brace	2x8 I-Brace					

	Brace Size for Two-Ply Truss					
	Specified Rows of La	Continuous iteral Bracing				
Web Size	1	2				
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace				
2x6	2x6 T-Brace	2x6 I-Brace				
2x8	2x8 T-Brace	2x8 I-Brace				

T-Brace / I-Brace must be same species and 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

February 12, 2018

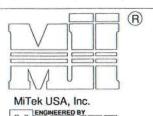
AUGUST 1, 2016

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

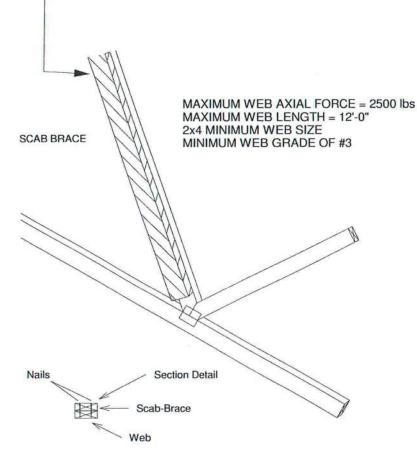


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

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:

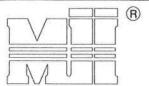
February 12, 2018

AUGUST 1, 2016

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

ENGINEERED BY

- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. 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. THE LOADS INDICATED.

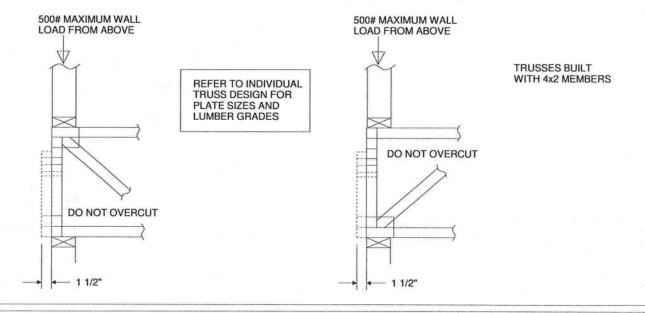
 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE
- APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

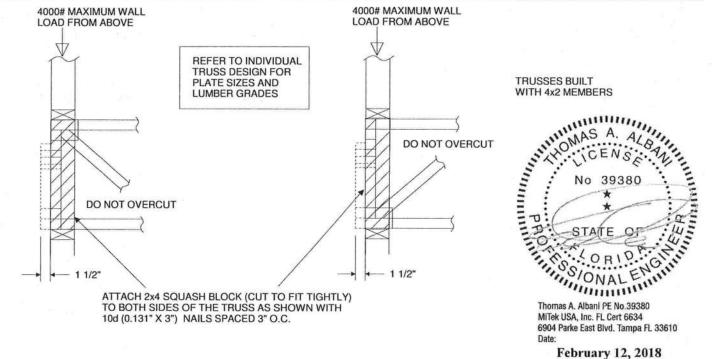
 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ORIENTATION ONLY.

 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail MII-GE130-D-SP **AUGUST 1, 2016** R MiTek USA, Inc. Typical x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud Vertical Stud (4) - 16d Nails MiTek USA, Inc. SECTION B-B (2) - 10d Nails into 2x6 DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. SECTION A-A 12 PROVIDE 2x4 BLOCKING BETWEEN THE FIRST Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA (5) - 10d NAILS. ** SHEATHING TO 2x4 STD SPF BLOCK 3x4 =Roof Sheathing

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

Page 1 of 2

TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD

Refer to Section A-A to Section B-B 24 NOTE: 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND

** - L-Bracing Refer

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: 1x4 SRB OR 2x4 STUD 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 AT THOMBINITED TO BE ALL THOMBINITED 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")

Diagonal Bracing

4" Max	M N	1	X V / X X	A /
1	1'-3" Max.	(2) - 10d NAILS		(2) - 10d NAILS
	1	***	Truss	es @ 24" o.d
Diag. B at 1/3 p if needs	ooints	ATTAC NAILS		
End	d Wall		HORIZONT (SEE SECT	TAL BRACE TION A-A)

Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-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.	3-9-13	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.

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

February 12, 2018



Standard Gable End Detail

MII-GE130-SP

Page 1 of 2

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

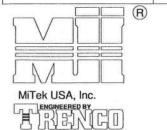
HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED

MiTek USA, Inc.



Typical _x4 L-Brace Nailed To 2x_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. 4'-0" O.C. MAX Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =

Vertical Stud DIAGONAL BRACE (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 2x4 Stud

> 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" X2.5") NAILS MINIMON SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3"

Max

- 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD

(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 100 NAILS SPACED 6" O.C. 5. 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.

Without

Brace

4-0-7

3-8-0

3-0-10

1x4

L-Brace

4-5-6

3-10-4

3-1-12

2x4

L-Brace

6-3-8

5-5-6

4-5-6

Maximum Stud Length

6-1-5

- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIV
- 06-01-13 BY SPIB/ALSC. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Stud

Spacing

16" O.C.

Minimum

Stud Size

Species

and Grade 2x4 SP No. 3 / Stud 12" O.C.

2x4 SP No. 3 / Stud

2x4 SP No. 3 / Stud 24" O.C.

IGH 2x4.	at 1	g. Brace / 1/3 points eeded
S. CISSOR	*****	
EFFECTIVE		End Wall
DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
ngth	· · · · · · · · · · · · · · · · · · ·	
8-0-15	12-1-6	
7-4-1	11-0-1	

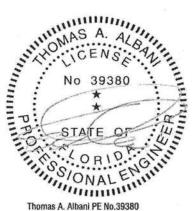
9-1-15

24" Max

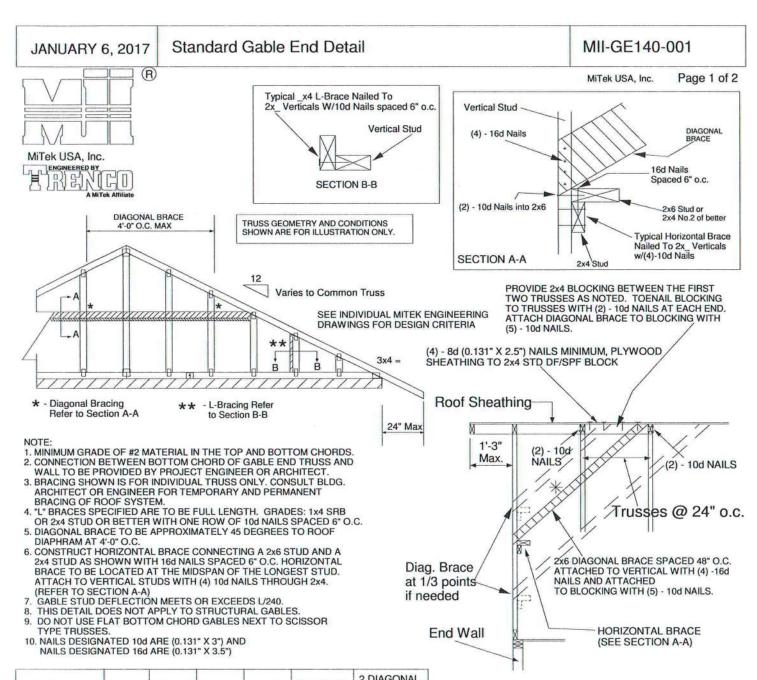
Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C 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:



Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	BRACES AT 1/3 POINTS
Species and Grade			Maximu	n Stud Le	ngth	11
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.



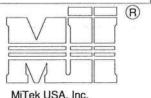
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

Standard Gable End Detail

MII-GE170-D-SP

MiTek USA, Inc.

Page 1 of 2



DIAGONAL BRACE 4'-0" O.C. MAX

MiTek USA, Inc. 믮벎

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

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

**

B

Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

3x4 =

Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4 SP OR SPF No. 2

> 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

(2) - 10d NAILS

SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

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, SPF or SP No.3
OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4-0" O.C. 6. 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")

24" Max	1.001 0110	
	1'- Ma	
at 1	ig. Brace 1/3 points eeded	
ONAL S AT	End Wall	N N N N N N N N N N N N N N N N N N N

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

(2) - 10d NAILS

Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

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

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 6" o.c., with 3" 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 7-10 170 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:

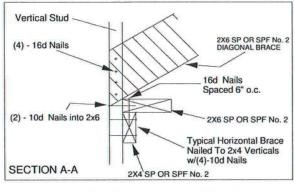
Standard Gable End Detail

MII-GE180-D-SP

R Typical 2x4 L-Brace Nailed To 2x4 Verticals W/10d Nails spaced 6" o.c. Vertical Stud MiTek USA, Inc. ENGINEERED BY SECTION B-B DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA ** 3x4 =

- L-Bracing Refer

Page 1 of 2 MiTek USA, Inc.



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

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

Diagonal Bracing Refer to Section A-A

to Section B-B

MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 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, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

DIAPHRAM AT 4'-0" O.C.

6. 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)

7. 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

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")

	M	M
	1'-0" Max.	(2) - 10d NAILS
		*
Diag. Bra at 1/3 po if needed	ints/	2x6 48" (4) BL(
End	Wall	
AT		1 1

Roof Sheathing

24" Max

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

Trusses @ 24" o.c.

(2) - 10d NAILS

HORIZONTAL BRACE (SEE SECTION A-A)

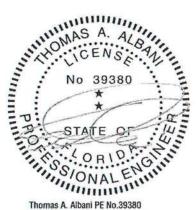
Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
Species and Grade			Maximum St	Maximum Stud Length			
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3		
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7		
2x4 SP No. 3 / Stud	24" O.C.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



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

MiTek USA, Inc. Page 1 of 1

R

MiTek USA, Inc.

ENGINEERED BY

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ASCE 7-10 DURATION OF LOAD INCREASE: 1.60**

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

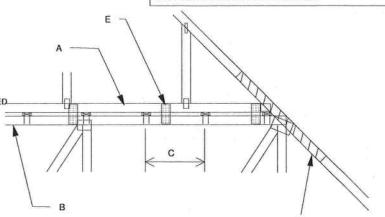
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) (0.131" X 3.5") TOE-NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT 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, CENTEREDON 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 SCAB MAY BE OMITTED PHOVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH 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.

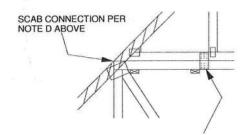
E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH

MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

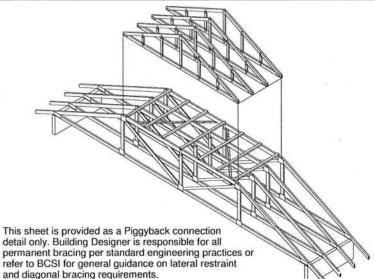


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

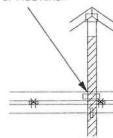
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



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.)

(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. 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.

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:

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

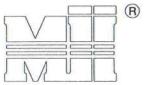
MII-PIGGY-ALT 7 - 10

MiTek USA, Inc. Page 1 of 1

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C

ASCE 7-10 DURATION OF LOAD INCREASE: 1.60

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



MiTek USA, Inc. ENGINEERED BY (40

- PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0(0.131" X 3.5") TOE-NAILED.
- BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- 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,
- 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 IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH

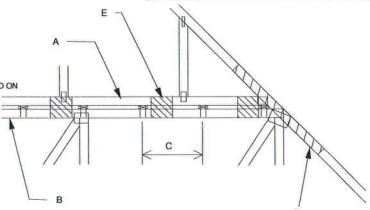
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

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.

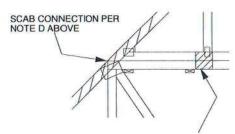
E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH

3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

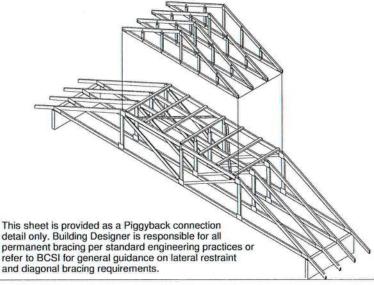


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

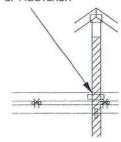
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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:

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP

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.)

(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.

No 39380

B STAITE OF 19

SONAL EMBANAS A. Albani PE No.39380

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

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

MII-REP01A1

MiTek USA, Inc. Page 1 of 1

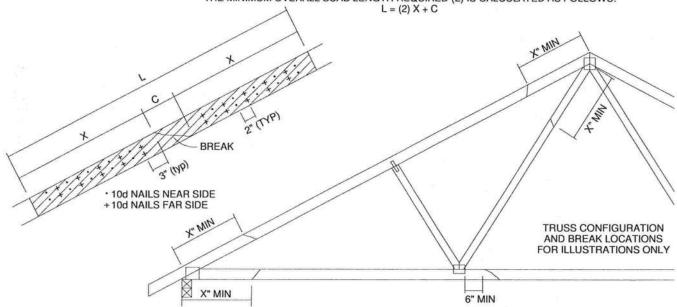


TOTAL NUMBER OF										
OF BREAK *		X INCHES	S	P	С)F	s	PF	н	IF
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	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

- 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.
 THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID
- UNUSUAL SPLITTING OF THE WOOD.
 WHEN NAILING THE SCABS. THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID
- THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x ORIENTATION ONLY. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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

MiTek USA, Inc.

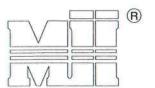
ENGINEERED BY

LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

MiTek USA, Inc.

Page 1 of 1



1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.

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

3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES

FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

NEAR SIDE

NEAR SIDE

SIDE VIEW

(2x3) 2 NAILS

OE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail) SPF-S DIAM. DF HF SPF .131 88.0 69.9 68.4 59.7 80.6 LONG .135 93.5 74.2 72.6 63.4 85.6 108.8 86.4 84.5 73.8 99.6 3.5 .162 LONG 74.2 57.6 50.3 .128 67.9 58.9 75.9 60.3 59.0 51.1 69.5 .131 3.25" .148 81.4 74.5 64.6 63.2 52.5

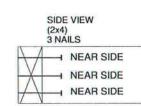
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

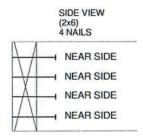
EXAMPLE:

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

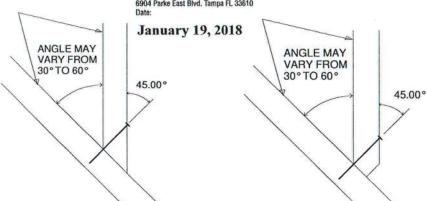
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

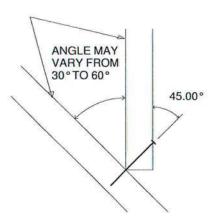






Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



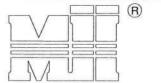


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

MiTek USA, Inc.

Page 1 of 1



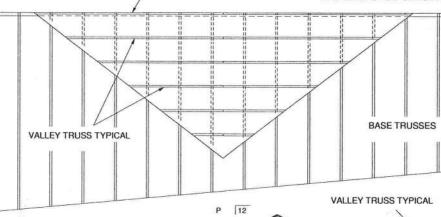
MiTek USA, Inc.

ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

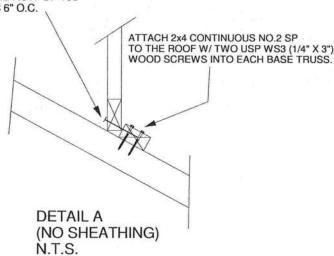
GENERAL SPECIFICATIONS

- 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.

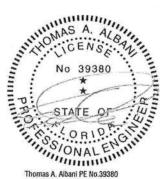


GABLE END, COMMON TRUSS OR GIRDER TRUSS SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



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



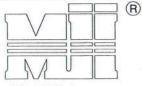
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

MiTek USA, Inc.

Page 1 of 1

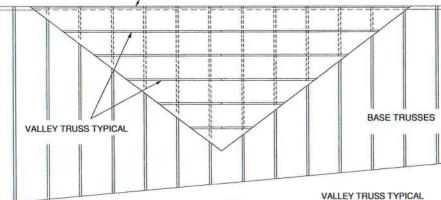


MiTek USA, Inc.

GABLE END, COMMON TRUSS OR GIRDER TRUSS

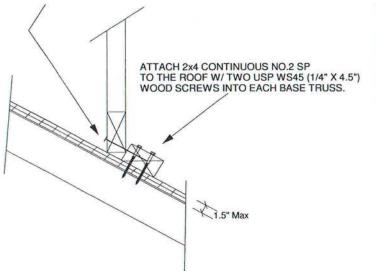
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
- 1. NAIL SIZE 100 (0.131 A 3)
 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
 4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
 5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS.
- 6. NAILING DONE PER NDS-01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



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

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



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 ST No 39380 SONALE

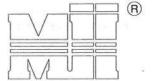
Thomas A. Albani PE No.39380 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

TRUSSED VALLEY SET DETAIL

MII-VALLEY SP

MiTek USA, Inc.

Page 1 of 1



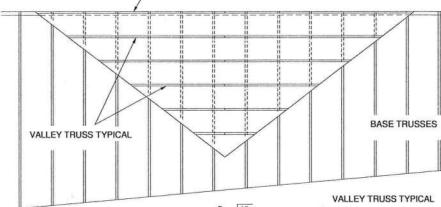
MiTek USA, Inc.



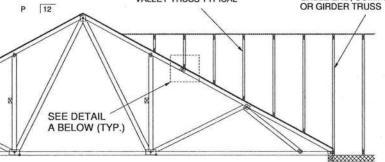
GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

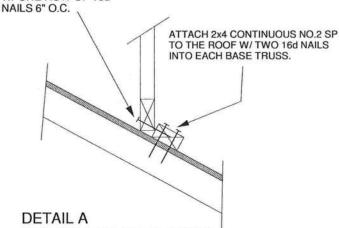
- NAIL SIZE 16d (0.131" X 3.5")
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
 BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING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



GABLE END, COMMON TRUSS OR GIRDER TRUSS



SECURE VALLEY TRUSS W/ ONE ROW OF 16d

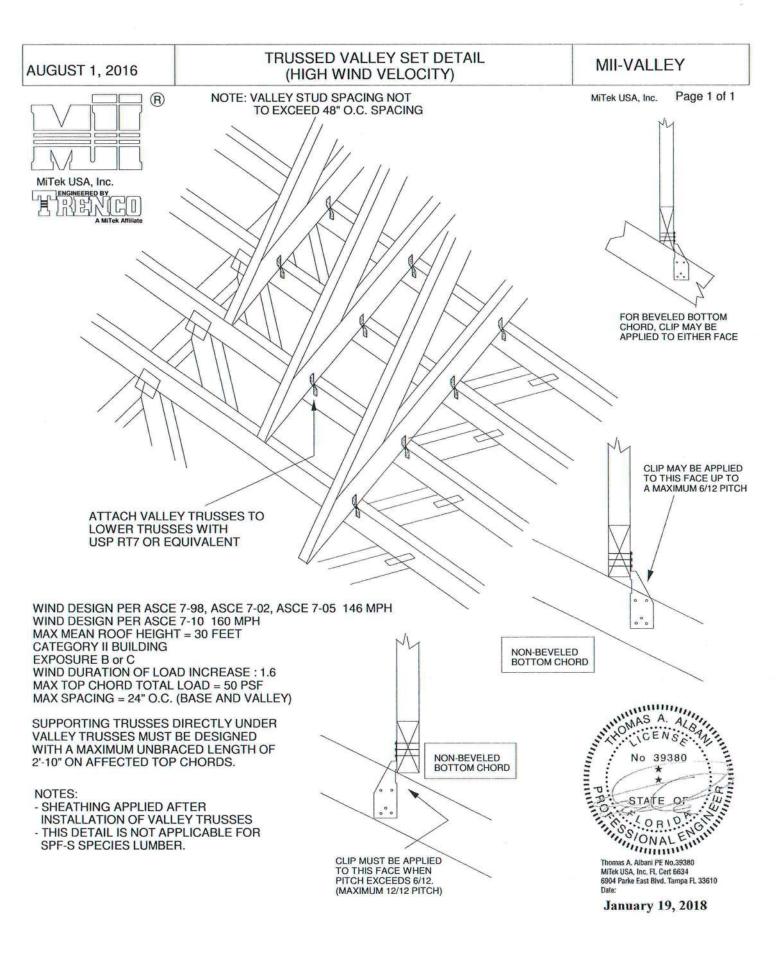


(MAXIMUM 1" SHEATHING) N.T.S.

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



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



AUGUST 1, 2016 MiTek USA, Inc.

(R)

Standard Gable End Detail

MII-GE146-001

MiTek USA, Inc.

Page 1 of 2

(2) - 10d NAILS

Trusses @ 24" o.c.

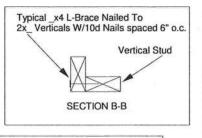
2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.



Vertical Stud DIAGONAL BRACE (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

DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =- Diagonal Bracing L-Bracing Refer Refer to Section A-A

(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

to Section B-B

NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.

CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 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.

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. 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.	3-11-3	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.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

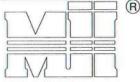
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

Page 1 of 1



MiTek USA, Inc.

TRUSS CRITERIA:

LOADING: 40-10-0-10 **DURATION FACTOR: 1.15** SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

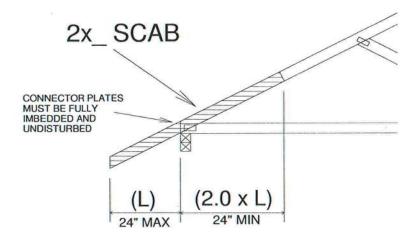
NOTES:

1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF

TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.

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

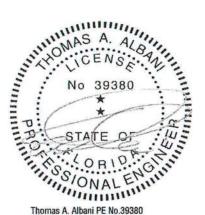
WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf. Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

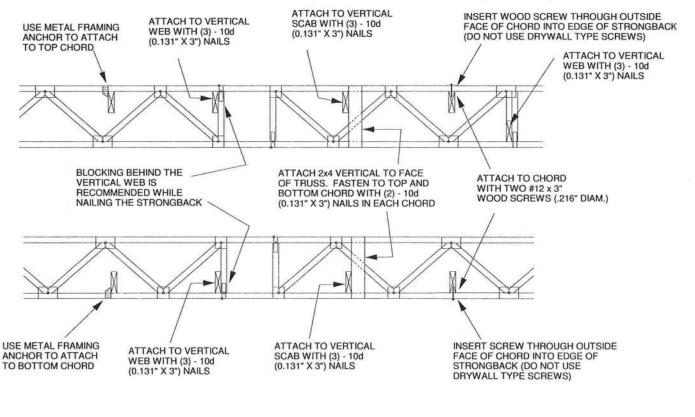
Page 1 of 1

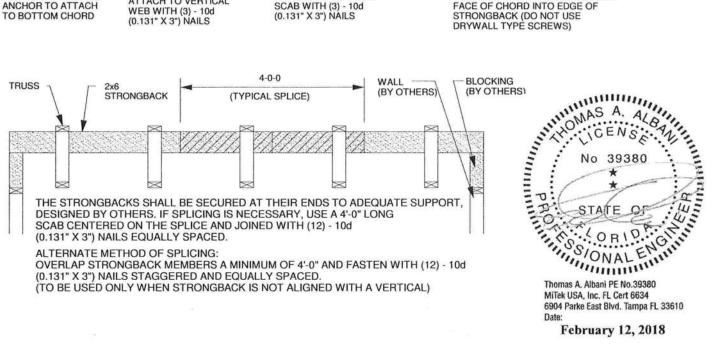


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS. 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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,





(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)



55-04-00 CJ03 CJ01 BEARING & CJ01 7-00-00 T01 (11) E)01 (14) AHU T03 C CJ01 T04 T05 1-04-00 CJ01 CJ03 CJ05 T01A 0 25-02-00 0 6-06-00 D ¥T14 T08 (2) 6-00-00 4-00-00 7-00-00 CJ05 T06 CJ03 18-02-00 CJ01 104 (2) T03 C)05 T15 CJ03 EJ01 (12) CJ01 C001 C103 4-00-00 30-02-00

> Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, cet..., so the trusses do not interfere with these type of items. It is the responsibility of the Contractor to ensure of the proper crientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

Refer to BCSI-B1 Summary Sheet-Guide for handling. Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation. ACQ lumber is corrisive to truss plates. Any ACQ lumb that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first. No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541 Per ANSI/TPI 1:2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Pruss Manufacturer.

Use Manufacturer's specifications for all hanger onnections unless noted otherwise.

Trusses are to be 24° o. U.N.O.

All hangers are to be Simpson or equivalent U.N.O.

Use 10d x 1 1/2" Nails in hanger connections to single ply birder trusses.

eral Notes

5

Trusses are not designed to support brick U.N.O. Dimensions are Feet-Inches: Sixteenths FHE ARROW HEAD AT THE END OF THE TRUSS ON HEAT TRUSS ON HEAT TRUSS PLACEMENT PLAN (LAYOUT) PLAN (LAYOUT) HE LEFT SIDE OF THE LEFT SIDE OF THE HILIVIDUAL TRUSS ORAWING, USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE FRUSSES ON THE STRUCTURE.

3

MITEK PLATE APPROVAL #'S

2197.2-

2197.4, BOISE

EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2

6-22-21

KLH

Original Ref #: 2820752
Roof Job #:

loor 1 Job#

N/A

2820752

1653

Lot 84 Emerald Cove

CORNERSTONE

PHONE: 850-576-5177

Tallahassee

Jacksonville PHONE: 904-772-6100 FAX: 904-772-1973 Lake City PHONE: 386-755-6894 FAX: 386-755-7973

FIRSTSOURCE

Builders