

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

Lot/Block: 84 Subdivision: Emerald Cove

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

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16

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
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	T24444447 T24444448 T244444450 T24444451 T24444453 T24444453 T24444455 T24444457 T244444457 T24444445 T24444460 T24444461 T24444463 T24444463 T24444463 T24444463 T24444463 T24444463 T24444466 T24444466 T24444466 T24444466	CJ01 CJ03 CJ05 EJ01 EJ01G HJ10 T01 T01A T01A T01G T02 T03 T04 T05 T06 T07 T08 T10 T11 T11 T12 T13 T14 T14 T14G	6/23/21 6/23/21
22	127774400	1140	0/23/21

No.	Seal#	Truss Name	Date
23	T24444469	T15	6/23/21
24	T24444470	1156	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 Date:

June 23,2021



CORNERSTONE - LOT 84 EC Job Truss Truss Type Qty Ply T24444447 2820752 CJ01 Jack-Open 8 1 Job Reference (optional) Builders FirstSource (Lake City,FL), 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:50:47 2021 Page 1 Lake City, FL - 32055, ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-?R8xdLgL9L5k_bdHo8KQVR?e2e?jg_k0DAllglz3i1c 1-6-0 Scale = 1:8.2 6.00 12 3×4 = LOADING (psf) SPACING-CSI. DEFL GRIP 2-0-0 **V**defi L/d PLATES (loc) 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.14 Vert(LL) 0.00 >999 MT20 240 TCDL 7.0 Lumber DOL BC 1.25 0.03 0.00 Vert(CT) >999 180 0.0 Rep Stress Incr WB BCLL 0.00 YES Horz(CT) 0.00 2 n/a n/a BCDL Code FBC2020/TPI2014 10.0 Matrix-MP Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 1-0-0 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

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building 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



Qty Ply CORNERSTONE - LOT 84 EC Job Truss Truss Type T2444448 8 2820752 **CJ03** Jack-Open 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_bg_k0DAllglz3i1c 1-6-0 Scale = 1:13,3 6.00 12 0-4-8 9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **I/defl** L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.14 Vert(LL) 0.01 4-7 >999 240 MT20 244/190 Lumber DOL 1.25 BC 0.10 Vert(CT) -0.01 4-7 >999 180 TCDL 7.0 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 BCLL n/a

LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.

Weight: 12 lb

FT = 20%

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

REACTIONS.

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

Code FBC2020/TPI2014

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

Matrix-MP

- 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 Date:

June 23,2021



CORNERSTONE - LOT 84 EC Job Truss Truss Type Qty Ply T2444449 2820752 CJ05 Jack-Open 8 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:50:48 2021 Page 1 ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-TdiJqghzweDbclCUMrrf2fXnZ2lgPR_9SqVrCBz3i1b 5-0-0 Scale = 1:18.2 6.00 12 0-4-8 5-0-0 LOADING (psf) DEFL. SPACING-2-0-0 CSI I/defl L/d PLATES GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.28 Vert(LL) 0.03 4-7 >999 240 MT20 244/190

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.05

0.00

>999

n/a

3

180

n/a

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

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

LUMBER-

REACTIONS.

TCDI

BCLL

BCDL

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

70

0.0

10.0

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

Code FBC2020/TPI2014

Max Horz 2=107(LC 12)

Max Uplift 3=-67(LC 12), 2=-65(LC 12)

Lumber DOL

Rep Stress Incr

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

 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

BC

WB 0.00

Matrix-MP

0.24

- 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.

1 25

YES

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



Weight: 18 lb

FT = 20%

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 - 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 **AMSITPH1 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 Ply T24444450 2820752 EJ01 Jack-Partial 34 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 -1-6-0 1-6-0 7-0-0 Scale = 1:23.2 6.00 12 D-4-8 11 12 3x4 = 7-0-0 Plate Offsets (X,Y)-- [2:0-1-13,0-1-8] LOADING (psf) SPACING-DEFL PLATES GRIP 2-0-0 CSL (loc) **V**defi 1/d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.70 Vert(LL) 0.30 4-7 >274 240 MT20 TCDL 7.0 Lumber DOL 1 25 BC 0.69 Vert(CT) 0.26 4-7 >323 180 0.00 -0.01 BCLL 0.0 Rep Stress Incr YES WB Horz(CT) 3 n/a n/a Code FBC2020/TPI2014 Weight: 25 lb FT = 20% Matrix-MS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 6-0-0 oc purlins.

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

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

June 23,2021



6904 Parke East Blvd. Tampa, FL 36610 Job Truss Truss Type CORNERSTONE - LOT 84 EC Qty Ply T2444451 2820752 EJ01G Jack-Open Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:50:51 2021 Page 1 ID:kPNS_ZXjPFPeUIAx1rKNCsyCIRc-tCNSTijrCZbATDw31_PMgH9KLFMocndb8ojVpWz3i1Y 7-0-0 Scale: 1/2"=1" 2x4 || 5 2x4 || 6.00 12 2x4 || D-4-8 6 2x4 || 2x4 = 2x4 || 2x4 ||

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.00	1	n/r	120	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	1	n/r	120		
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				1,000	3.00	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.

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-

- 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 Comer(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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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.
- * 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.

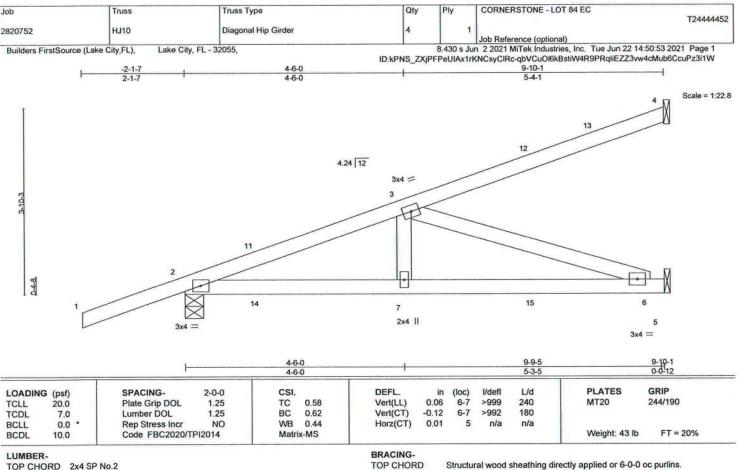


Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 23,2021

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
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BOT CHORD

Rigid ceiling directly applied or 9-2-14 oc bracing.

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

2x4 SP No.3

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

TOP CHORD 2-3=-799/340

BOT CHORD

REACTIONS.

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
- 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.
- * 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 78 lb up at 7-1-15, 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

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



6904 Parke East Blvd, Tampa FL 33610

June 23,2021

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

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



6904 Parke East Blvd. Tampa, FL 36610

Job Truss Truss Type CORNERSTONE - LOT 84 EC Qty Ply T24444453 2820752 T01 11 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 ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-ln3a5klkVU_kKgfej6y3HwnnMTAXp5M2qmy9Qrz3i1V 10-3-0 20-6-0 22-0-0

Scale = 1:37.7

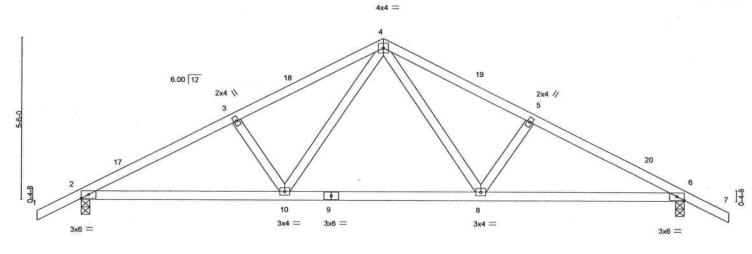


Plate Offsets (X,Y)	6-10-14 [6:0-2-15,Edge]				6-8-4					6-10-14	
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.16	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.32	8-10	>768	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.04	6	n/a	n/a		
BCDL 10.0	Code FBC2020/T	PI2014	Matri	x-MS					1,5,50,50	Weight: 96 lb	FT = 20%

13-7-2

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-4-0 oc purlins.

20-6-0

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

REACTIONS.

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

6-10-14

TOP CHORD

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.
- *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



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 - 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

ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



CORNERSTONE - LOT 84 EC Job Truss Type Qty Ply T2444454 2820752 T01A Common Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 22 14:50:55 2021 Page 1
ID:kPNS_ZXiPFPeUIAx1rKNCsyCIRc-mzdyl4mMGo6bxqEqGqUIq7KzrseWYYfB3QhjyHz3i1U Lake City, FL - 32055, Builders FirstSource (Lake City,FL), 12-11-8 Scale = 1:33.9 4x4 = 2x4 || 6.00 12 2x4 \ 3 X 7 3x4 = 3x6 = 3x4 = LOADING (psf) CSI. DEFL. l/defl L/d PLATES GRIP SPACING-2-0-0 in (loc) Plate Grip DOL Vert(LL) -0.04 7-10 >999 240 MT20 244/190 1.25 TC 0.28 20.0 TCLL 180 BC 0.42 Vert(CT) -0.09 7-10 >999 1.25 TCDL 7.0 Lumber DOL 0.26 Horz(CT) 0.01 n/a Rep Stress Incr WB n/a YES BCII 0.0 Weight: 70 lb FT = 20%Code FBC2020/TPI2014 Matrix-MS BCDL 10.0 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

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

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

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

TOP CHORD 2-3=-686/219, 3-4=-552/214

BOT CHORD 2-7=-299/584

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

NOTES-

REACTIONS.

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

- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 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.
- * 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.



6904 Parke East Blvd. Tampa FL 33610 Date:

June 23,2021

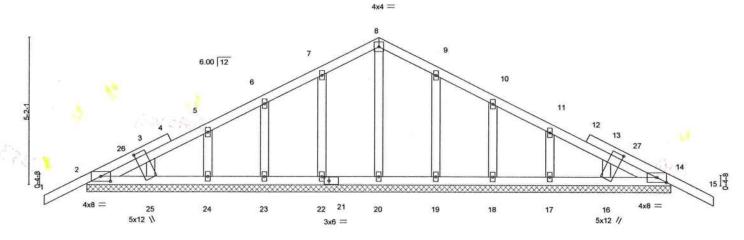
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This data free both one of the same free both of the same fr



6904 Parke East Blvd.

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	
2820752	T01G	Common Supported Gable	1	1	The second of th	T24444455
		250			Job Reference (optional)	
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,		8.430 s Ju	n 2 2021 MiTek Industries, Inc. Tue Jun 22	14:50:57 2021 Page 1
			ID:kPNS_ZXjPFPe	UIAx1rKNC	syClRc-iMljjlocoPMJB8OCOEWmvYPMggQv	0WUUWkAp1Az3i1S
-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						1
						20-6-0						
Plate Offs	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-	3], [25:0-1-13,1-4-6	6]					
LOADING	G (psf)	SPACING-	2-0-0	CSI.	11	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	W. 100 100 100 100 100 100 100 100 100 10	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-S	Weeting account					Weight: 110 lb	FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 20-6-0.

(lb) - Max Horz 2=-83(LC 13)

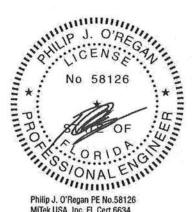
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 22, 23, 24, 25, 19, 18, 17, 16

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-

- 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 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 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 requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 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 Date:

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.

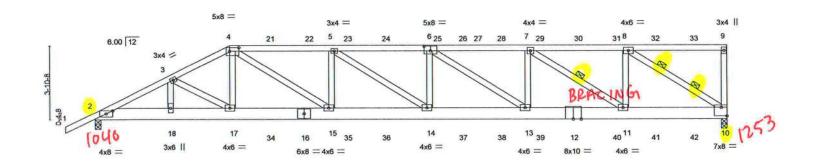
Design valid for use only with MiTek9 connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, cretction 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			0	Qty I	Ply	CORNERSTONE - LOT 84 EC		
	1.0				837/			- 1				T24	444456
2820752		T02			Half Hip Girde			1		1			
											Job Reference (optional)		
Builders FirstSo	ource (Lake C	ity,FL),	Lake	City, FL -	32055,				8.	430 s Jur	2 2021 MiTek Industries, Inc. T	ue Jun 22 14:50:59 2021 Pag	ge 1
								ID:kPNS	S_ZXjPFP	eUIAx1rl	(NCsyClRc-elsT8RpsK1c1QRXb)	VfYE_zUatU0xUBdn_1fw53z3	i1Q
1-1-6-0	3-10-15	- 1	7-0-0	1	12-3-1	1	17-4-6	- 1	22-5-1	10	27-6-15	32-10-0	
1-6-0	3-10-15		3-1-1	10	5-3-1		5-1-5		5-1-5	5	5-1-5	5-3-1	

Scale = 1:57.8



	1	3-10-	15 , 7-0-0 ,	12-3-1	1	17-4-6		22-5-1	10	- 1	27-6-15	32-10-0)
	A	3-10-	15 3-1-1	5-3-1	1	5-1-5		5-1-5	5		5-1-5	5-3-1	
Plate Offs	sets (X,Y) [[2:0-4-0,0-1-15], [4:0-5-12	2,0-2-4], [6:0-4-0),0-3-0], [10):Edge,0-5-8]							
LOADING	G (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	Vdefl	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip DOL	1.25	TC	0.59	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/TI	PI2014	Matri	ix-MS						Weight: 230 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

VVEBS 2X4 SF NO.3

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

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-

- 1) 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; 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.
- Provide adequate drainage to prevent water porturing.
 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 15-0-12, 110 lb down and 90 lb up at 15-0-12, 110 lb down and 90 lb up at 12-0-12, 110 lb down and 90 lb up at 21-0-12, 110 lb down and 90 lb up at 22-0-12, 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, 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, 110 lb down and 90 lb up at 25-0-12, 110 lb down and 90 lb up at 25-0-12, 80 lb down and 90 lb up at 25-0-12, 80 lb down and 60 lb up at 25-0-12, 80 lb down and 60 lb up at 25-0-12, 80 lb down and 60 lb up at 25-0-12, 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, 120 lb down and 60 lb up at 25-0-12, 86 lb down and 80 lb



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

7-11

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
2820752	T02	Half Hip Girder	1	1	T24444456
		M1970533 *23-7009550.		12	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 ID:kPNS_ZXjPFPeUIAx1rKNCsyClRc-7xQrMnqV5Kku2b6n3N3TXA1IdtMADetwChPUdV23i1P

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

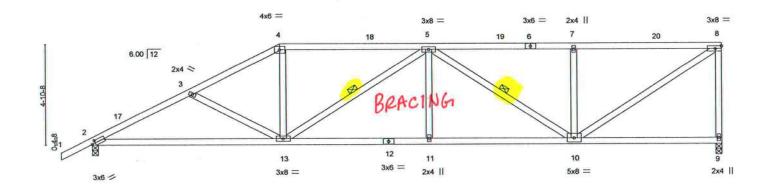
Concentrated Loads (lb)

30=-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) 33=-219(F) 34=-64(F) 35=-64(F) 36=-64(F) 37=-64(F) 38=-64(F) 39=-64(F) 40=-64(F) 41=-64(F) 42=-129(F)



Job	Truss		Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	T24444457
2820752	Т03		Half Hip	2	1		12-14-14-07
					-	Job Reference (optional)	
Builders FirstSource	ce (Lake City,FL),	Lake City, FL - 32	055,		8.430 s Ju	n 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:01 20	21 Page 1
	SED CHESTON IN CONTROL OF STREET	CANAL WOODS # MICHOGOLOGIC		ID:kPNS_ZX	(jPFPeUIAx	1rKNCsyClRc-b7_EZ7r7seslflh_d4ai3OawPHbFyAh4RL	81Axz3i1O
, -1-6-0 ,	4-9-8	9-0-0	16-1-4	1	23-0-1	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



	9-0-0			16-1-4				23-0-1	2		30-2-0		
		9-0-0			7-1-4			6-11-8	3		7-1-4		
Plate Offs	sets (X,Y)-	[2:0-1-15,0-1-8]											
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	0.59	Vert(LL)	-0.15 1	3-16	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.32 1	3-16	>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	Matrix	-MS						Weight: 162 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

(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. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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

BOT CHORD 2-13=-550/1800, 11-13=-477/1869, 10-11=-477/1869 3-13=-275/156, 4-13=-54/518, 5-13=-456/170, 5-11=0/254, 5-10=-606/229, WEBS

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=160
- 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

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 parameter shown, and is for on 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

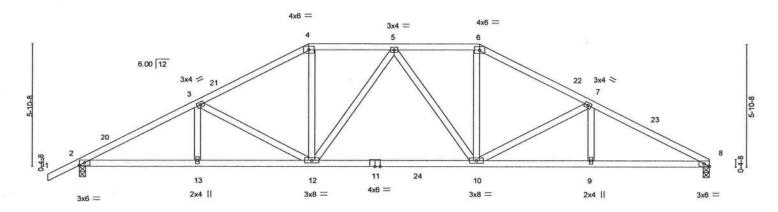
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss	Truss Type		Qty	Ply	CORNERSTONE - LOT	84 EC	
2820752	T04	Hip		2	1			T24444458
			-		-	Job Reference (optional)		
Builders FirstSource	(Lake City,FL),	Lake City, FL - 32055,		All Control of the Co	8.430 s Ju	n 2 2021 MiTek Industries,	Inc. Tue Jun 22 14:51:02 :	2021 Page 1
				ID:kPNS_ZX	(jPFPeUIAx	1rKNCsyClRc-3JYcmTsldy	_cHvGABo6xcb6AfhyzhhtD	g?uaiNz3i1N
, -1-6-0	5-7-15	11-0-0	15-1-0	19-2-0		24-6-1	30-2-0	
1-6-0	5-7-15	5-4-1	4-1-0	4-1-0	()	5-4-1	5-7-15	

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	sets (X,Y)-	[8:0-2-15,Edge]									
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 0.3	0 Vert(LL)	-0.20 10-12	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC 0.7	5 Vert(CT)	-0.36 10-12	>999	180	WWW.		
BCLL	0.0	Rep Stress Incr	YES	WB 0.3	6 Horz(CT)	0.09 8	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS	3				Weight: 157 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

- 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.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 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

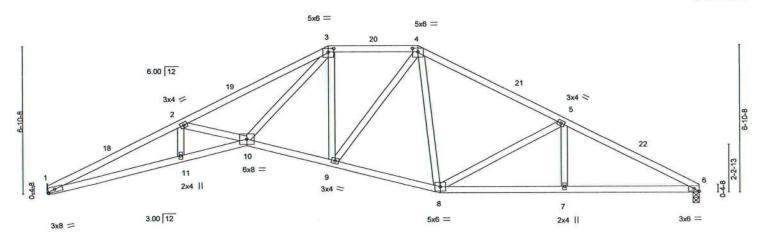
June 23,2021

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 properly 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 Comp. Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Tru	uss Type	0	Qty	Ply	CORNERSTONE - LOT 84 EC T24444459
2820752	T05	Hic			1	1	124444439
2020/32	100	1."					Job Reference (optional)
Builders FirstSour	rce (Lake City,FL),	Lake City, FL - 3205	5,				in 2 2021 MiTek Industries, Inc. Tue Jun 22 14:51:03 2021 Page 1
				ID:kPNS	_ZXjPFP	eUlAx1rKi	NCsyClRc-XW6_psNNF6Tv3rMkVdA9pfls5FYQ2NMvfd8Eqz3i1M
	6-2-0	_ 1	3-0-0	7-2-0		23-	-11-0 , 30-2-0
1	6-2-0	- 6	5-10-0	1-2-0		6-9	-9-0 6-3-0

Scale = 1:51.4



10		6-2-0	-2-12	13-0-0		16-2-0			23-11-0		30-2-0	
		6-2-0	-0-12	3-9-4	_ '	5-2-0	-1		5-9-0		6-3-0	
Plate Offs	ets (X,Y)-	[1:0-3-10,0-1-8], [3:0-3-0,	0-2-0], [4:0-3-0	0,0-2-0], [6:0-	-2-15,Edge]							
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	0.47	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/T	PI2014	Matri	x-MS						Weight: 151 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

23.11.0

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*

3-4: 2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS

REACTIONS.

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

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,

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

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.
- 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.
- 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.



30-2-0

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

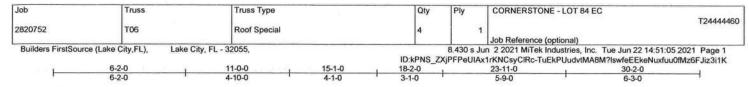
Rigid ceiling directly applied or 2-2-0 oc bracing.

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

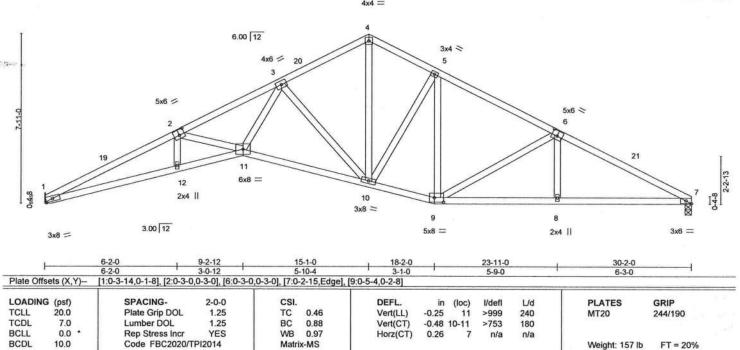
June 23,2021

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





Scale = 1:51.7



LUMBER-

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

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

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

REACTIONS.

(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)

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,

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

7-8=-313/1810 WEBS 2-11=-415/204

2-11=-415/204, 3-11=-373/1754, 3-10=-1286/371, 4-10=-246/1079, 5-10=-276/184,

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
- 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.
- 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.



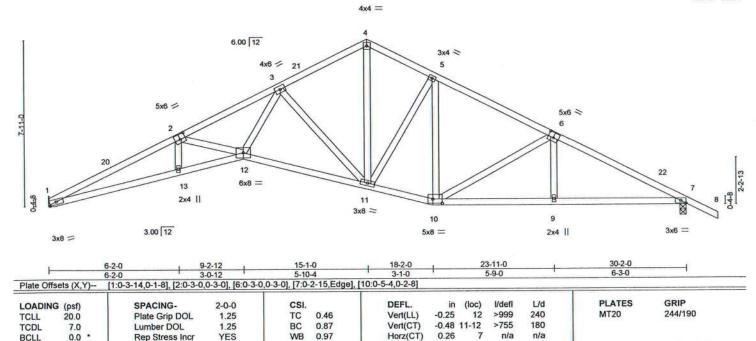
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 23,2021



Job	Truss		Truss Type			Qty	Ply	CORNERSTONE - L	OT 84 EC	T24444461
2820752	то7		Roof Special			5	1			12111101
								Job Reference (optio		
Builders FirstSor	urce (Lake City.FL).	Lake City, FL - 3	2055.				8.430 s Jui	n 2 2021 MiTek Indus	tries, Inc. Tue Jun 22 14:	51:06 2021 Page 1
Dundoro i motoci	2100 (2010 011)11 2/1	Provide College Co.			ID:kPN	S ZXIPI	FPeUIAx1rK	(NCsyCIRc-x5n7cqvFg	AU1mWaxQdAtmRHp8IF	fwdLlpbdsor9z3i1J
2	6-2-0	. 11-	0-0	15-1-0	18-2-0			3-11-0	30-2-0	31-8-0
	6-2-0		0-0	4-1-0	3-1-0		5	5-9-0	6-3-0	1-6-0

Scale = 1:52.6



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

WEBS REACTIONS.

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

10.0

2x4 SP No.2 2x4 SP No.3

(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)

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

Code FBC2020/TPI2014

TOP CHORD

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

AND THE PROPERTY OF THE PROPER

6-7=-2064/408

6-/=-2064/408 CHORD 1-13=-778/3364, 12-13=-777/3371, 11-12=-400/2148, 10-11=-177/1398, 9-10=-283/1791,

BOT CHORD 1-13=-

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

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 grip DOL=1.60

Matrix-MS

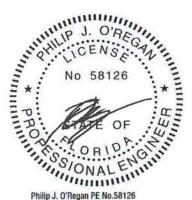
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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 (it=lb) 1=231, 7=264.



Weight: 160 lb

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

Rigid ceiling directly applied or 6-8-2 oc bracing.

FT = 20%

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

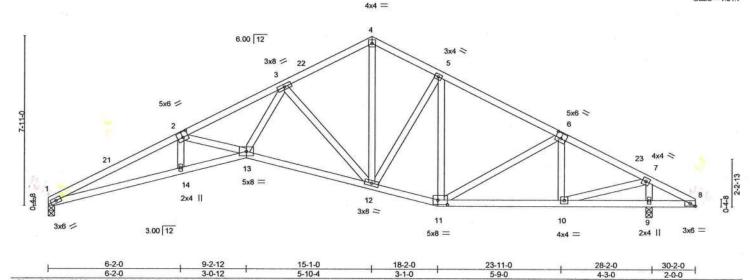
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, crection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

Job	Truss		russ Type		Qty	Ply	CORNERSTONE - LOT	T 84 EC	
2820752	Т08	,	loof Special		2	1		T	24444462
							Job Reference (optional)	
Builders FirstSou	urce (Lake City,FL),	Lake City, FL - 320	55,			8.430 s Ju	n 2 2021 MiTek Industrie	s, Inc. Tue Jun 22 14:51:07 2021 P	age 1
					ID:kPNS_Z	XjPFPeUIAx1r	KNCsyClRc-PHLVqAvuR	UcuOg97zLh6Jfg?LieEMpbygHcLNt	bz3i1I
L	6-2-0	11-0	.0	15-1-0	18-2-0	i .	23-11-0	30-2-0	
	6-2-0	4-10	-0	4-1-0	3-1-0		5-9-0	6-3-0	

Scale = 1:51.7



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	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			
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	MACHINE SAN					Weight: 165 lb	FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-10-7 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(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 WEBS

1-14=-759/3063, 13-14=-758/3067, 12-13=-384/1897, 11-12=-150/1139, 10-11=-163/1140 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.



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

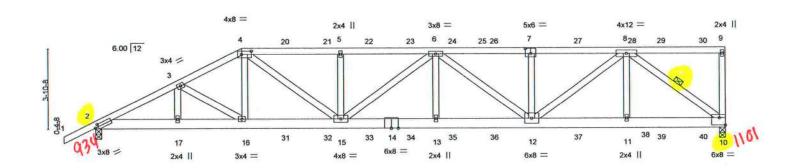
June 23,2021

🛦 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 MTrek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucliapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 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		
-02-1222									T2444463
2820752	T10		Half Hip Girder		13.		Job Deference (actional)		
D 111 F: 10	(I -1 - O't - FL)	1-1-01-5	1 22255			9 420 - 1	Job Reference (optional) un 2 2021 MiTek Industries, Inc.	Tue lue 22 14-51-11	2021 Page 1
Builders FirstSou	urce (Lake City,FL),	Lake City, F	L - 32055,		D:kPNS_ZXjI		rKNCsyClRc-l2b?fYzOVj7KsHSv(
1-6-0	3-10-15	7-0-0	11-8-10	16-3-9	1	20-10-7	25-5-6	30-2-0	
1-6-0	3-10-15	3-1-1	4-8-10	4-6-14		4-6-14	4-6-14	4-8-10	(6)

Scale = 1:53.3



	, 3	-10-15 , 7-0-0	, 11	8-10	16-3-9	T.	20-10	-7	1	25-5-6	30-2-	0
	3	-10-15 3-1-1	4-	8-10	4-6-14		4-6-1	4	- 1	4-6-14	4-8-1	0 '
Plate Offse	ets (X,Y)-	[2:0-1-12,0-1-8], [4:0-5	5-12,0-2-0], [7:0-3	-0,0-3-0], [1	0: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 1	3-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.47 1	3-15	>771	180		
BCLL	0.0 *	Rep Stress Inci	NO	WB	0.82	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code FBC202	D/TPI2014	Mate	rix-MS						Weight: 194 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP M 31 *Except* TOP CHORD

1-4: 2x4 SP No.2 **BOT CHORD** 2x6 SP No 2

WEBS 2x4 SP No.3

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

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.

TOP CHORD 2-3=-4411/1892, 3-4=-4280/1912, 4-5=-5045/2266, 5-6=-5045/2266, 6-7=-4477/2015,

7-8=-4472/2012

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

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, WEBS

6-13=-82/380, 6-12=-969/474, 7-12=-483/248, 8-12=-964/2147, 8-11=-78/404,

8-10=-3438/1548

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; 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.
- 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 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 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 Ib 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,

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

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 MTreks connectors. This design is based only upon parameters and with MTreks 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component. is always required for stability and to prevent compose with possible possible and any analysis of the fabrication, storage, delivery, erection and bracing of frusses and truss systems, see ANS/TPH Qui 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	T10	Half Hip Girder	1	1	T2444	4463
	1.1-7.3				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)

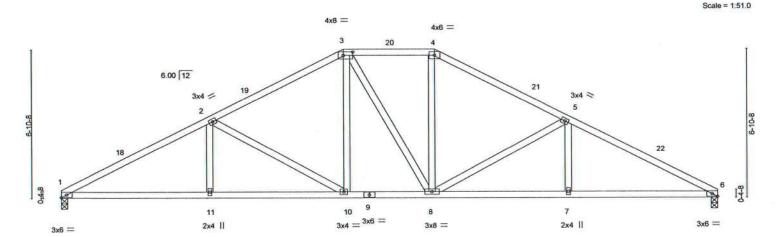
Vert: 1-4=-54, 4-9=-54, 2-10=-20

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) 28=-110(B) 29=-110(B) 30=-111(B) 31=-64(B) 32=-64(B) 33=-64(B) 35=-64(B) 36=-64(B) 37=-64(B) 38=-64(B) 39=-64(B) 40=-65(B)



Job	Truss	Truss Type	C	Qty	Ply	CORNERSTONE - LOT 84 EC	T2444446
2820752	T11	Hip	1	1	1		1244440
				9.1		Job Reference (optional)	
Builders FirstSour	rce (Lake City,FL), Lake	City, FL - 32055,	ID:kPNS	ZXjPI		n 2 2021 MiTek Industries, Inc. Tue Jur NCsyClRc-mF90tuz0G0FBUR15muHH	
v.	6-10-2	13-0-0	17-2-0	1	23	3-14	0-2-0
	6-10-2	6-1-14	4-2-0	1	6-	1-14 6-	10-2



1		6-10-2		-1-14		4-2-0	-		-1-14		6-10-2	
Plate Offs	sets (X,Y)					720						
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	0.45	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	9)	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08	6	n/a	n/a	SUME INSTERNEY	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	30.000.000.000					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.

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

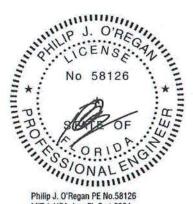
1) Unbalanced roof live loads have been considered for this design.

- 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 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

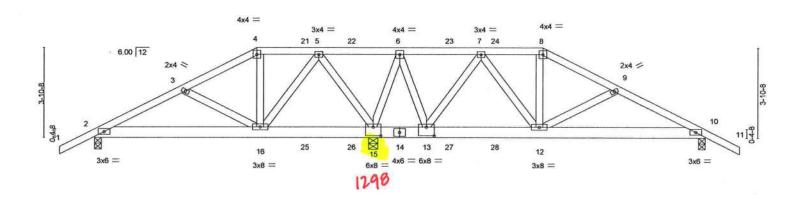
June 23,2021

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Job	Truss		Truss Type				Qty	Ply	CORNER	RSTONE - LOT 84 E	C	98.500 (00.00
2820752	T12		Hip Girder				1	1				T2444446
									Job Refer	rence (optional)		
Builders FirstSour	rce (Lake City,FL),	Lake City, FL -	32055,					8.430 s Jur	1 2 2021 M	MiTek Industries, Inc.	Tue Jun 22 14:51:	14 2021 Page 1
						ID:	PNS_Z	XjPFPeUIAx	1rKNCsyC	IRc-idG8IZ?HoeVvjl	BUuJJI57cAEX9qV5	9 RtoD7hz3i1B
-1-6-0	3-10-15	7-0-0	9-7-15	1	13-2-0	, 16	-8-1	, 19	4-0	22-5-1	26-4-0	27-10-0
1-6-0	3-10-15	3-1-1	2-7-15	1	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	i i	12-0-4		14-3-12	19-4-0		r .	26-4-0	
		7-0-0		5-0-4	1	2-3-7	5-0-4		1	7-0-0	
Plate Offse	ets (X,Y)-	[13:0-4-0,0-4-8], [15:0-4-6	0,0-4-8]								
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	0.46	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	10000000	
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	\$250/A2778656480				Weight: 162 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 WEBS 2x4 SP No.3 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-3-0 oc purlins.

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

REACTIONS.

(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. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) 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,

TOP CHORD

8-9=-1043/530, 9-10=-1229/560 2-16=-216/519, 13-15=-438/233, 12-13=-253/523, 10-12=-463/1081 BOT CHORD

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.
- 7) 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 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 13-3-4, 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



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

June 23,2021

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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Compor Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20801



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	T24444465
2820752	T12	Hip Girder	1	1		124444405
	P 9001	2004-012/02/02/02			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_ZXjPFPeUIAx1rKNCsyCIRc-idG8IZ?HoeVvjlBUuJJI57cAEX9qV59_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) 28=-64(B)



Job Truss Type CORNERSTONE - LOT 84 EC Truss Qty Ply T2444466 2820752 T13 Half Hip Girder 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 3-9-8 Scale = 1:28.4 4x8 = 2x4 || 3 4 10 6.00 12 3x6 = 11 12 13 15 7 6 3x10 || 8x10 = 5x6 = 8-4-14 13-8-0 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] LOADING (psf) SPACING-2-0-0 CSI. DEFL. PLATES in I/defl L/d GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.34 Vert(LL) -0.06 6-7 >999 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.27 -0.10 Vert(CT) >999 180 6-7 BCLL 0.0 Rep Stress Incr NO WB 0.78 0.02 Horz(CT) n/a n/a Code FBC2020/TPI2014 BCDL 10.0 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, except end verticals.

BOT CHORD

BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3

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

WERS 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.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; 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



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. 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



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	T24444466
2820752	T13	Half Hip Girder	1	2	Job Reference (optional)	
				0 420 - 1	a 2 2024 MiTak Industries Inc. Tue Jun 22 1	4-51-16 2021 Page 2

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

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

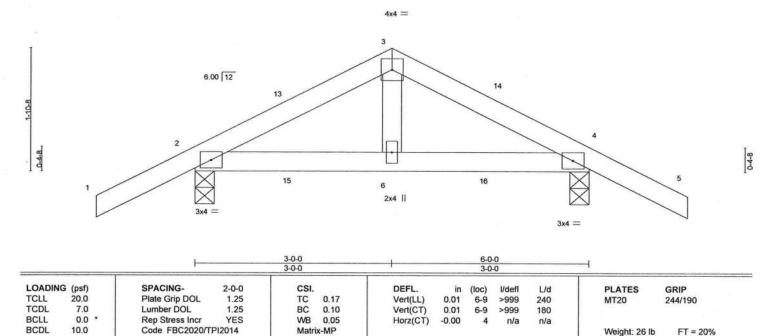
Concentrated Loads (lb)

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



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC		
2820752	T14	Common	1	1			T2444467
	use and the second				Job Reference (optional)		
Builders FirstSource	e (Lake City,FL), Lake (City, FL - 32055,		8.430 s Ju	n 2 2021 MiTek Industries, Inc. Tue	Jun 22 14:51:19	2021 Page 1
			ID:kPNS_ZXjPFP	UIAx1rKN(CsyClRc-3b41LH3PcA7BqW3Rgsvw	oBJ6WYv5ASwja	9W ouz3i16
L	-1-6-0	3-0-0		6-0-	.0	7-6-0	
	1-6-0	3-0-0		3-0-	0	1-6-0	1

Scale = 1:16.9



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

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)

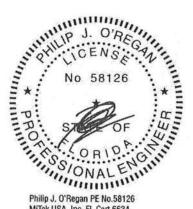
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

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 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.



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

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

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

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 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

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



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - LOT 84 EC	
	10000000000000000000000000000000000000	EST 545 M 19752-199	600	100		T24444468
2820752	T14G	Common Supported Gable	1	1	CONTRACTOR	
The second second		(majori)			Job Reference (optional)	
Builders FirstSou	rce (Lake City,FL), Lake C	ity, FL - 32055,		8.430 s Ju	n 2 2021 MiTek Industries, Inc. Tue Jun 22	14:51:20 2021 Page 1
		-2	ID:kPNS ZXiPF	PeUIAx1rK	NCsyClRc-XnePYd42NUF2RgedEaQ9LOsG	SlxFTvvOtppFXLLz3i15
	-1-6-0	3-0-0		6	-0-0 7-6-0	
	1-6-0	3-0-0		3	-0-0 1-6-0	,

Scale = 1:17.4

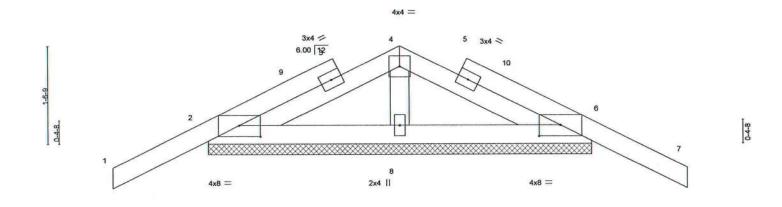


Plate Offsets (X,Y)-	[2:0-4-0,0-2-1], [6:0-4-0,0	-2-1]									
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2020/T	PI2014	Matri	x-P	2 %					Weight: 31 lb	FT = 20%

6-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

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 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.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.



Structural wood sheathing directly applied or 6-0-0 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



Job Truss Truss Type Qty Ply CORNERSTONE - LOT 84 EC T2444469 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_ZXjPFPeUIAx1rKNCsyClRc-?zBnmz4g8nNv3qDqoHxOtcPOpLUJeGk02S?5tnz3i14 10-10-0

Scale = 1:39.5

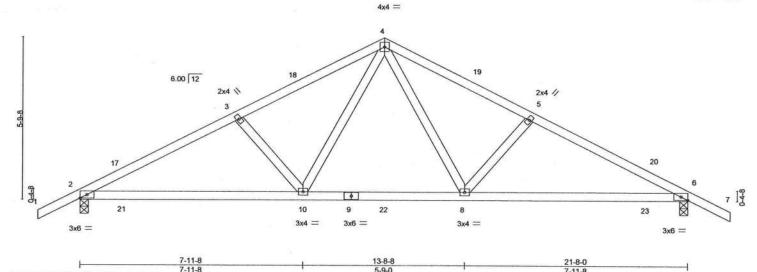


Plate Off	fsets (X,Y) [6:0-2-15,Edge]									-11-6	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.20		>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.21	8-16	>999	180		2111100
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS				100	23.77	Weight: 102 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-10-2 oc purlins. Rigid ceiling directly applied or 5-1-10 oc bracing.

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.

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 TOP CHORD

BOT CHORD

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 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) 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 (it=lb) 2=224, 6=224.



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

June 23,2021

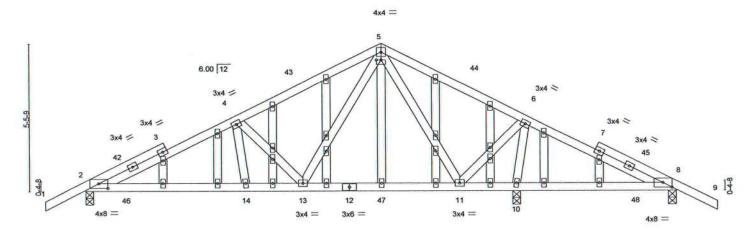
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type		Qty	Ply	CORNERSTONE - LOT 84 E	С	1	T24444470
2820752	T15G	GABLE		1	1				
						Job Reference (optional)			
Builders FirstSource (Lak	e City.FL). Lake City.	FL - 32055.			8.430 s Ju	in 2 2021 MiTek Industries, Inc.	Tue Jun 22 14:5	51:23 2021	Page 1
Daniel I I I I I I I I I I I I I I I I I I I	7, -7,			ID:kPNS_ZXjF	FPeUIAx1	rKNCsyClRc-xMJYBe6wgOddl7	NCvi_sz1Ukl9Eu	6BiJVmUC	kgz3i12
-1-6-0	5-7-15		10-10-0	1	16-0-1	1	21-8-0	1 2	23-2-0
1-6-0	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	i e	13-8-8		()	15-11-8		21-8-0	
	ŀ	5-10-4		2-1-4	1	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	(loc)	l/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		
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	1687 50					Weight: 150 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

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

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)

FORCES. (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

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

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 10-10-0, 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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.
- 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.



Structural wood sheathing directly applied or 5-8-7 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

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 systems, see __ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.

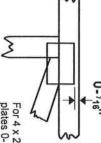


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1,6" from outside edge of truss.

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0

S

S

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 × 4

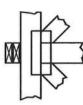
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

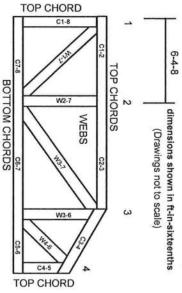
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89 ANSI/TPI1:

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

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.

ICC-ES Reports:

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 established by others. Lumber design values are in accordance with ANSI/TPI 1



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

PRODUCT CODE APPROVALS

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For 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.

ω

Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and

4

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to

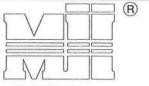
camber for dead load deflection

- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.

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 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					

	Nails
	SPACING
WEB	
	T-BRACE
Maile	
Nails	Section Detail -Brace

Nails	
Web	I-Brace
Nails	

	Brace Size for Two-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		

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 Date:

February 12, 2018

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

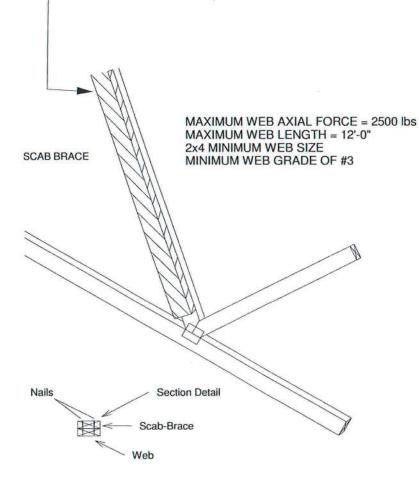


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

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.



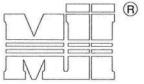
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

February 12, 2018

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.



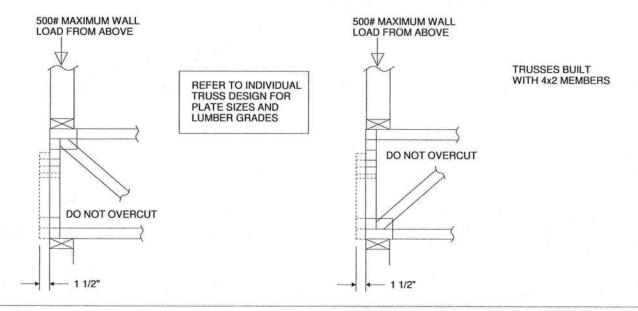
- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

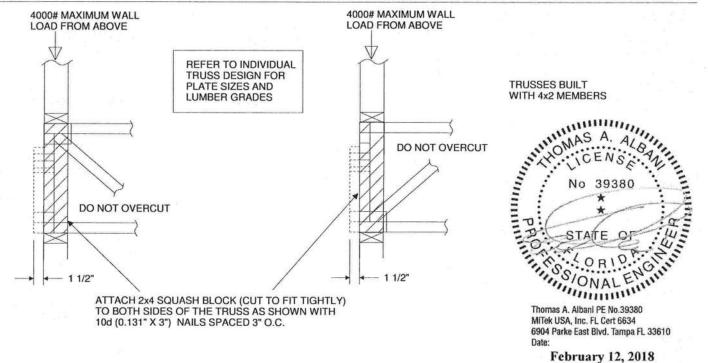
 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

 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.

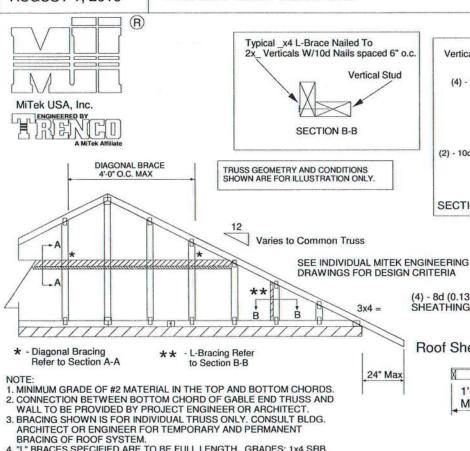
 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.



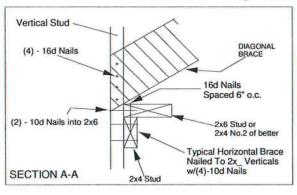


Standard Gable End Detail

MII-GE130-D-SP



MiTek USA, Inc. Page 1 of 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 SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3" (2) - 10dMax. NAILS

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.

 DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
 CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

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

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

06-01-13 BY SPIB/ALSC.

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

1	
Ding Prace	X
Diag. Brace / at 1/3 points if needed	/
End Wall	X

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

- 10d NAILS

Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

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

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

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

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

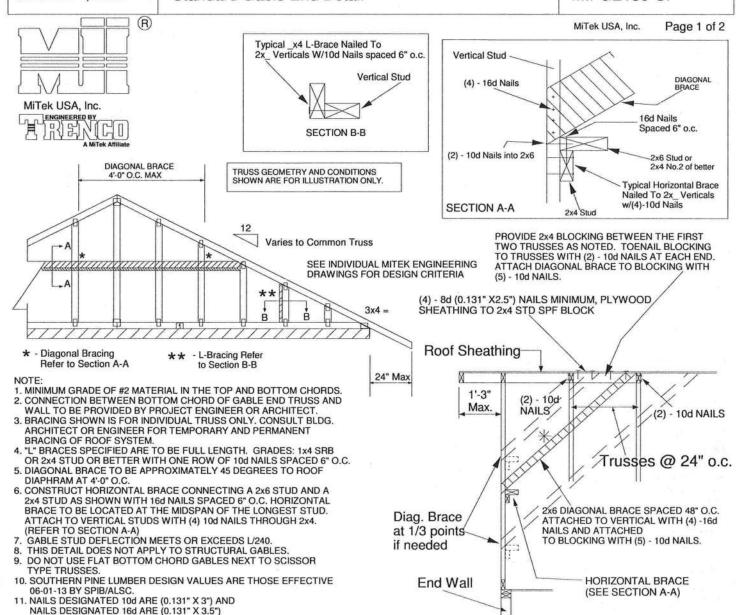


Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date

February 12, 2018

Standard Gable End Detail

MII-GE130-SP

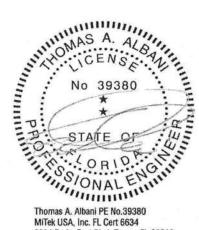


Minimum Stud Spacin		Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
Species and Grade			Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6		
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1		
2x4 SP No. 3 / Stud	24"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

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

JANUARY 6, 2017

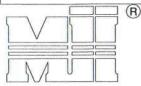
Standard Gable End Detail

MII-GE140-001

Page 1 of 2

O.C.

MiTek USA, Inc.



MiTek USA, Inc. 门别岛

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

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 =

L-Bracing Refer

to Section B-B

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

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

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

* - Diagonal Bracing

Refer to Section A-A

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.

"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

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")

Roo	f Sheathir	ng \	\ /		
24" Max	1'-3" Max.	(2) - 10d NAILS		(2)	10d NAILS
		*	Tru	usses @	24" o.c
Diag. Brad at 1/3 poil if needed		NAIL	ACHED TO VE S AND ATTAC	RACE SPACE ERTICAL WIT CHED TH (5) - 10d N	H (4) -16d
End V	Vall X	1	The second secon	ONTAL BRAG ECTION A-A	CO. II.

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 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

Standard Gable End Detail

MII-GE170-D-SP

MiTek USA, Inc.

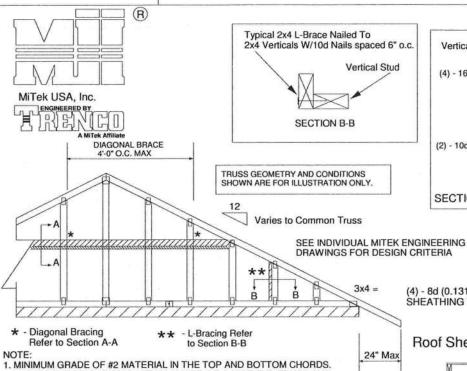
Page 1 of 2

2X6 SP OR SPF No. 2

(2) - 10d NAILS

Trusses @ 24" o.c.

Typical Horizontal Brace



2X6 SP OR SPF No. 2 DIAGONAL BRACE 16d Nails Spaced 6" o.c.

Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4 SP OR SPF No. 2

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

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST

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

- 10d

NAILS

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

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.
 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 STU 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")

	Roof Sheathing
UD.	Diag. Brace at 1/3 points if needed
	End Wall

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

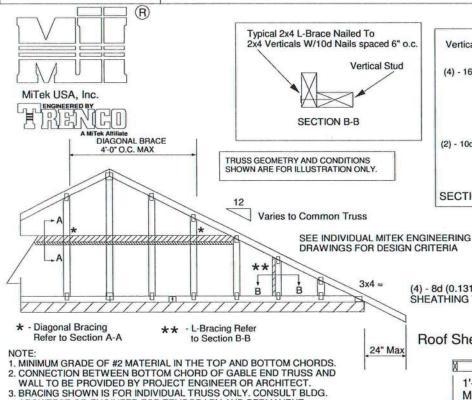
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



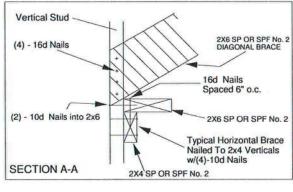
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

Standard Gable End Detail

MII-GE180-D-SP



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

(2) - 10d

NAILS

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.

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.

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

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

Diag at 1/3 if nee	. Brad 3 point eded	ce nts/
E	End \	Nall

Roof Sheathing

1'-0"

Max.

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	Williout ZA4		DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
Species and Grade		Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3		
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7		
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4		
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1		
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7		
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9		

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

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

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

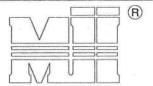


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STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-7-10

MiTek USA, Inc. Page 1 of 1



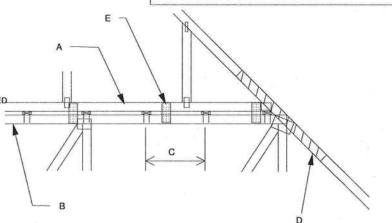
MiTek USA, Inc.

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

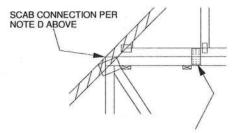
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES).
ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

- 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, 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 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 It. E FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH
- MITEK 3/8 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)

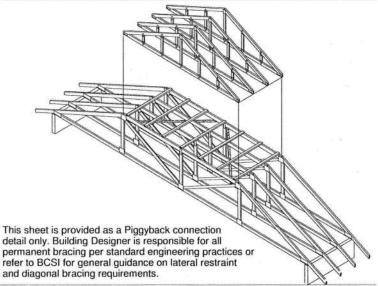


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

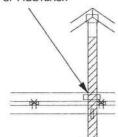
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- x 4'-0" SCAB TO EACH FACE OF 2) ATTACH 2 x 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.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

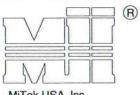
MII-PIGGY-ALT 7 - 10

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

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) 0(0.131* X 3.5") TOE-NAILED.
 B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24* O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.

- UNLESS SPECIFIED CLUSER ON MITEK THUSS DESIGN DHAWING.
 CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.

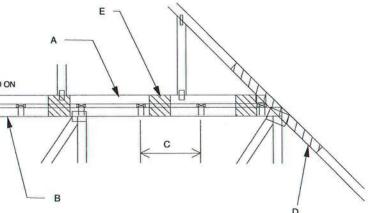
 2 X _ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF
 PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
 INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
 SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
 IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
- IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH 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.

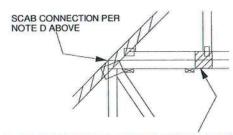
 E FOR WIND SPEED IN THE RANGE 126 MPH 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT A8" O.C. OR LESS. ATTACH WITH

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

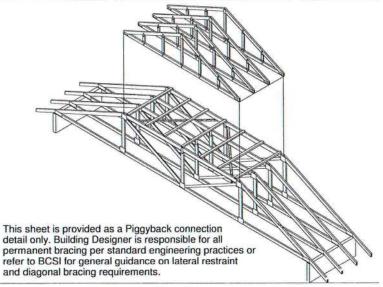


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

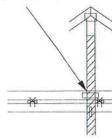
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



VERTICAL WEB TO **EXTEND THROUGH** BOTTOM CHORD OF PIGGYBACK



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

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



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

MII-REP01A1

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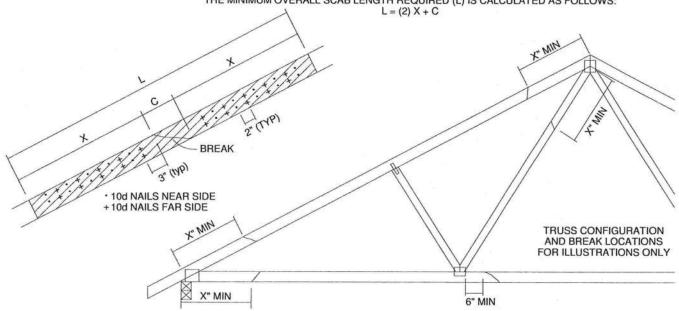


	JMBER OF			MAX	IMUM FO	RCE (lbs)	15% LOA	D DURAT	ION	
	REAK *	X INCHES	S	P)F	s	PF	н	IF
2x4	2x6	TELEVISION PROPERTY.	2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	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

- 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
- LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 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.



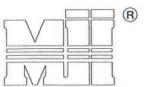
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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

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NOTES:

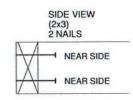
- 1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.

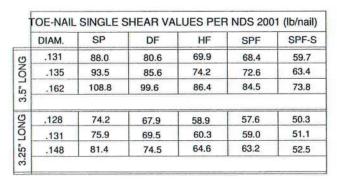
 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

 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



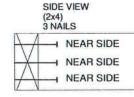


VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

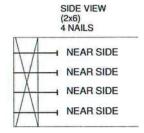
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

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

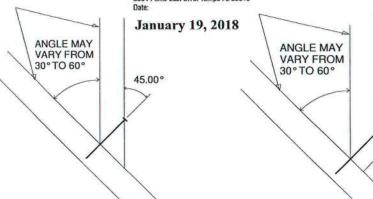


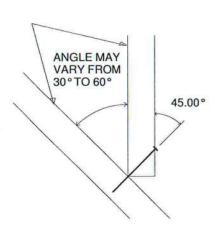
45.00°





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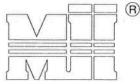


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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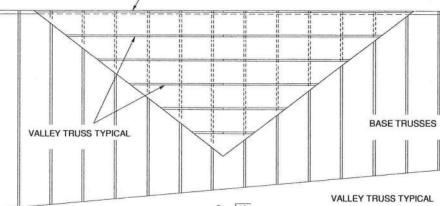


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

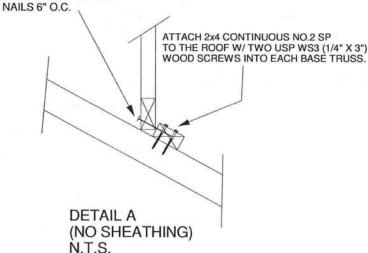
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 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 12 OR GIRDER TRUSS P SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d



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



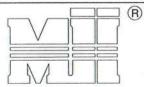
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TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

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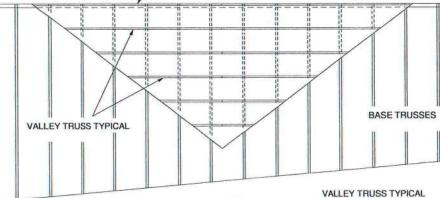
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ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

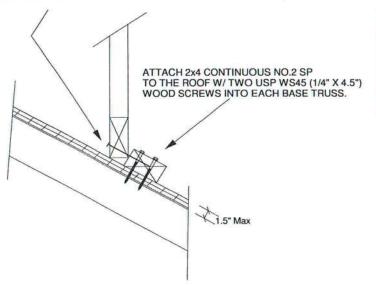
GENERAL SPECIFICATIONS

- NAIL SIZE 10d (0.131" X 3")
 WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
 INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
 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 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 3938(

STATE OF

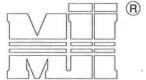
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Milek USA Inc.

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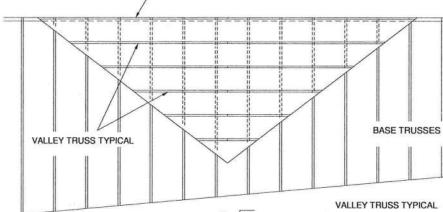


MiTek USA, Inc.

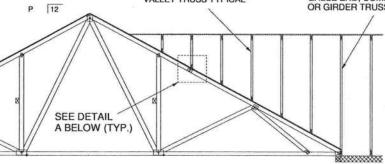
GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5")
 2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS.
 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.

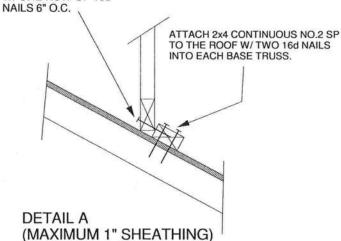


GABLE END, COMMON TRUSS OR GIRDER TRUSS



SECURE VALLEY TRUSS W/ ONE ROW OF 16d

N.T.S.



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



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TRUSSED VALLEY SET DETAIL MII-VALLEY AUGUST 1, 2016 (HIGH WIND VELOCITY) Page 1 of 1 NOTE: VALLEY STUD SPACING NOT R MiTek USA, Inc. TO EXCEED 48" O.C. SPACING MiTek USA, Inc. ENGINEERED BY FOR BEVELED BOTTOM CHORD, CLIP MAY BE APPLIED TO EITHER FACE CLIP MAY BE APPLIED TO THIS FACE UP TO A MAXIMUM 6/12 PITCH ATTACH VALLEY TRUSSES TO LOWER TRUSSES WITH USP RT7 OR EQUIVALENT 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 CATEGORY II BUILDING NON-BEVELED **EXPOSURE B or C BOTTOM CHORD** WIND DURATION OF LOAD INCREASE: 1.6 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) SUPPORTING TRUSSES DIRECTLY UNDER VALLEY TRUSSES MUST BE DESIGNED

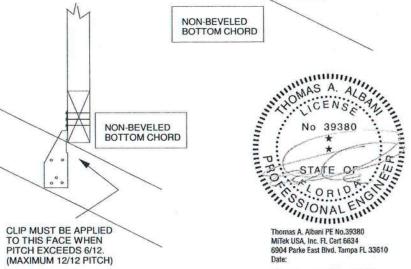
NOTES:

- SHEATHING APPLIED AFTER INSTALLATION OF VALLEY TRUSSES

2'-10" ON AFFECTED TOP CHORDS.

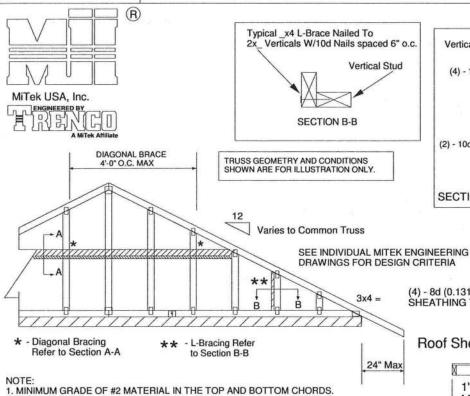
WITH A MAXIMUM UNBRACED LENGTH OF

- THIS DETAIL IS NOT APPLICABLE FOR SPF-S SPECIES LUMBER.



Standard Gable End Detail

MII-GE146-001



MiTek USA, Inc. Page 1 of 2 DIAGONAL 16d Nails Spaced 6" o.c. 2x6 Stud or

2x4 No.2 of better

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

NAILS AND ATTACHED

Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails

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.

2x4 Stud

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

(2) - 10d

NAILS

Roof Sheathing

Diag. Brace

at 1/3 points

1'-3"

Max.

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

SECTION A-A

2. 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. 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.

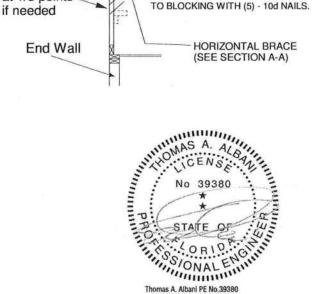
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

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

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

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

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



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OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

Page 1 of 1

R

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

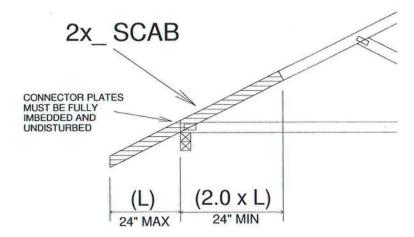
HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

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

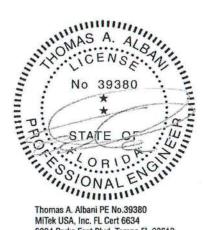
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



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 Date:

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

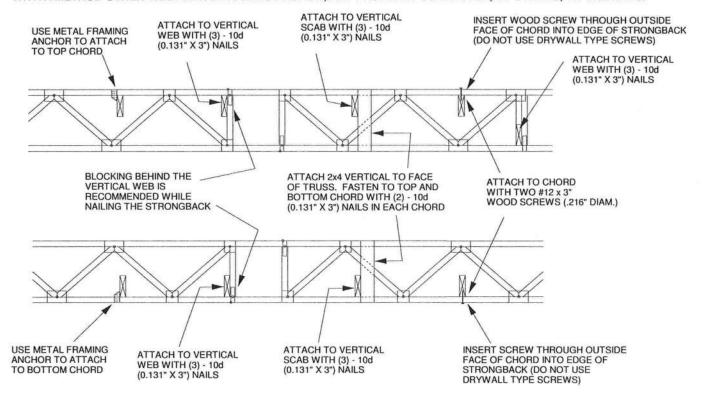
Page 1 of 1

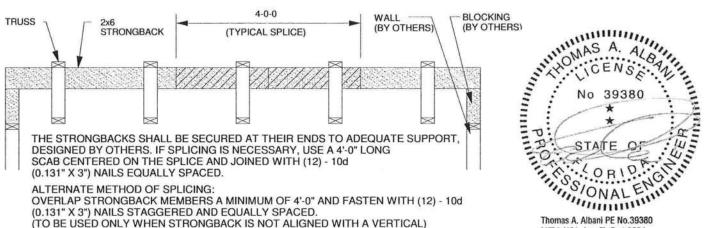


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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.

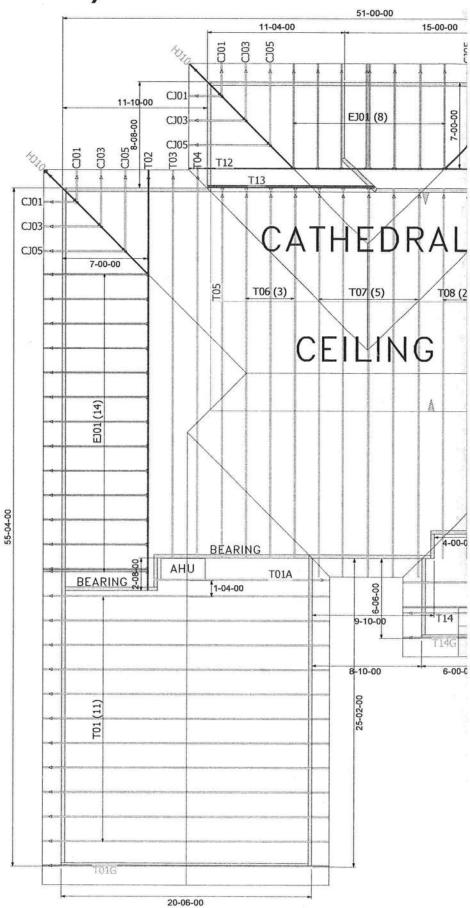




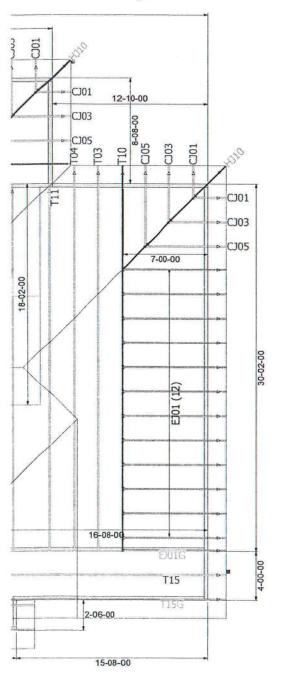
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

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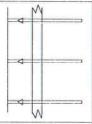
6/12 PITCH -



MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI J



THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING, USE THIS AS AN DRIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



leneral Notes

- Per ANSI/TPI 1.2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger onnections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
 All hangers are to be Simpson or equivalent U.N.O.
 Jse 10d x 1 1/2" Nails in hanger connections to single ply
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches Sixteenths

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling. Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation 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.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

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.

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.

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

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.



Lake City PHONE: 386-755-6894 FAX: 386-755-7973

Jacksonville PHONE: 904-772-6100 FAX: 904-772-1973

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Builder

CORNERSTONE

Lot 84 Emerald Cove

Model: 1653 Into rawn By riginal Ref#: 6-22-21 KLH 2820752 loor 1 Job# Floor 2 Job# Roof Job #: 2820752 N/A N/A