Job Truss Truss Type Qty Ply GIEBEIG - LOT 8 CW T27693417 3163304 CJ01 Jack-Open 8 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 11 14:41:43 2022 Page 1 ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-Ecsgr9sEmddxHuFLMXSxB9YZ016JFluKrqy2m1zHY66 -1-6-0 1-6-0 Scale = 1:8.2 6.00 12 0-10-8 0-5-13 0-4-8 3x4 = 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 0.14 0.00 Vert(LL) >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.03 0,00 Vert(CT) >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 6 lb FT = 20%LUMBER-BRACING-

TOP CHORD

BOT CHORD

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.

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

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

May 12,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Compo



Qty Job Truss Ply Truss Type GIEBEIG - LOT 8 CW T27693419 3163304 CJ05 Jack-Open 8 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 11 14:41:44 2022 Page 1 ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-ioQ22VtsXxlov2qXwFzAjN5iXQPG_l8T4UibJUzHY65 Scale = 1:18.2 6.00 12 0-4-8 LOADING (psf) SPACING-CSI. DEFL. in I/defl 1/d **PLATES** (loc) GRIP TCLL 20.0 Plate Grip DOL 1.25 0.28 TC Vert(LL) 0.03 >999 4-7 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.24 Vert(CT) -0.05 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 18 lb

LUMBER-

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

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=107(LC 12)

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

Max Grav 3=113(LC 1), 2=276(LC 1), 4=88(LC 3)

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

NOTES-

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



FT = 20%

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

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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 GIEBEIG - LOT 8 CW Truss Type Qty Ply T27693421 3163304 EJ01 Jack-Partial 26 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 11 14:41:46 2022 Page 1 ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-eBXoTBv73Y?W8L_w1g?epoAzbE?PSfdmYoBiNMzHY63 7-0-0 Scale = 1:23.2 6.00 12 D-4-8, 3x4 = Plate Offsets (X,Y)-[2:0-1-13,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP in (loc) I/defl TCLL 20.0 Plate Grip DOL 1.25 TC 0.63 Vert(LL) 0.10 >794 244/190 4-7 240 MT20 TCDL 7.0 Lumber DOL 1.25 0.51 BC Vert(CT) -0.224-7 >385 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 2 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 25 lb FT = 20%

LUMBER-

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

(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)

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.

- 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; 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.



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

May 12,2022

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



Job Truss Truss Type Qty Ply GIEBEIG - LOT 8 CW T27693423 3163304 HJ10 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 11 14:41:48 2022 Page 1 ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-aafZutwNb9FEOf7l9526uDFln2gHwTG3?6goSFzHY61 9-10-1 Scale = 1:22.8 12 4.24 12 3x4 = 3 0-4-8 15 6 7 2x4 || 3x4 = 3x4 = 9-10-1 LOADING (psf) SPACING-CSI. DEFL 2-0-0 in (loc) I/defi L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.58 Vert(LL) 0.06 6-7 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.62 Vert(CT) -0.12 >992 6-7 180 BCLL 0.0 Rep Stress Incr NO WB 0.44 Horz(CT) 0.01 5 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 43 lb FT = 20%LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 9-2-14 oc bracing.

WEBS 2x4 SP No.3

REACTIONS.

4=Mechanical, 2=0-4-9, 5=Mechanical (size) Max Horz 2=149(LC 22)

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 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)
- 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

Concentrated Loads (lb) Vert: 7=-6(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29) No 58126

No 58126

No 58126

Philip J. O'REG

No 58126

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

May 12,2022

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

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Job Truss Truss Type Qty GIEBEIG - LOT 8 CW T27693425 3163304 T01 10 Common 1 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 11 14:41:50 2022 Page 1 ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-XynJJZyd7nVydzHhGW4azeLgMrGkOPMMSQ9vW7zHY6? 10-10-0 21-8-0 5-3-14 5-6-2 Scale = 1:40.3 4x4 = 6.00 12 2x4 \ 2x4 // 10 9 8 3x6 = 3x4 = 3x6 = 3x6 = 3x4 = 21-8-0 7-0-5 Plate Offsets (X,Y)-[6:0-2-15,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL PLATES in (loc) I/defl 1 /d GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.45 Vert(LL) -0.19 8-10 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 1.00 Vert(CT) -0.38 8-10 >686 180 BCLL 0.0 Rep Stress Incr NO WB 0.27 Horz(CT) 0.05 6 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 102 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 9-3-2 oc bracing.

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

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=-92(LC 13)

Max Uplift 2=-256(LC 12), 6=-256(LC 13) Max Grav 2=1093(LC 1), 6=1093(LC 1)

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

TOP CHORD BOT CHORD 2-3=-1891/520, 3-4=-1724/510, 4-5=-1724/510, 5-6=-1891/520

2-10=-393/1643, 8-10=-193/1099, 6-8=-393/1643

WEBS

4-8=-193/717, 5-8=-277/176, 4-10=-193/717, 3-10=-277/176

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; 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.
- 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 (it=lb) 2=256, 6=256.
- 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



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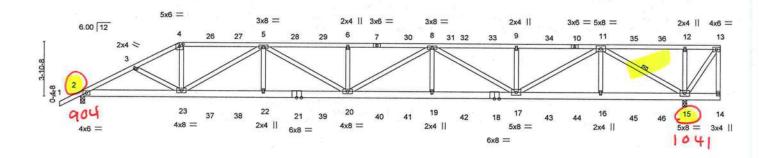
May 12,2022

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Job		Truss		Truss Type		Qty	Ply	GIEBEIG - LOT 8 CW			
3163304		T02		Half Hip Girder		1	9			Т	27693427
Duildoss Ciss	4Carrana (I ali	- Cit. FI \	1-1-01 51	20055				 Job Reference (optional 			
Builders Firs	toource (Lake	e City,FL),	Lake City, FL -	32055,		ID-MPI IouaKi		c 6 2021 MiTek Industries PC4d7zYSsJ-Et05Pz3vmri			
₁ -1-6-0	3-10-15	7-0-0	12-11-10	18-11-	4 . 2	4-10-14	30-10-8				zHY5r
1-6-0	3-10-15	3-1-1	5-11-10	5.11.1		5 11 10	5.44.40	36-10-2	42-9-12	45-4-0	

Scale = 1:78.9



	7-0-0 12-11 7-0-0 5-11-		18-11-4 5-11-10	24-10-14 5-11-10	30-10-8 5-11-10	36-10-2	42-9-12	45-4-0
Plate Offsets (X,Y)-	[4:0-3-0,0-2-0]		3-11-10	5-11-10	3-11-10	5-11-10	5-11-10	0-1/12 2-4-8
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 NO PI2014	BC (DEFL 0.87 Vert(I 0.97 Vert(I 0.76 Horz(L) -0.50 19-20 T) -0.94 19-20	l/defl L/d >999 240 >547 180 n/a n/a	PLATES MT20 Weight: 566	GRIP 244/190 b FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 15=0-3-8

> Max Uplift 2=-904(LC 8), 15=-1041(LC 5) Max Grav 2=3250(LC 1), 15=3957(LC 1)

Max Horz 2=143(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2\hbox{-}3\hbox{--}6693/1859, 3\hbox{-}4\hbox{--}6553/1823, 4\hbox{-}5\hbox{--}5948/1683, 5\hbox{-}6\hbox{--}10423/2787, 6\hbox{-}8\hbox{--}10423/2787, 6\hbox{-}8\hbox{--}10423/2787, 6\hbox{--}8\hbox{--}10423/2787, 6\hbox{--}10423/2787, 6\hbox{--}10423/278, 6\hbox{--}10423/278, 6\hbox{--}104$

8-9=-8435/2232 9-11=-8435/2232

2-23=-1735/5940, 22-23=-2449/9024, 20-22=-2449/9024, 19-20=-2738/10290, 17-19=-2738/10290, 16-17=-1322/5005, 15-16=-1322/5005 **BOT CHORD**

4-23=-583/2462, 5-23=-3628/952, 5-22=0/502, 5-20=-404/1657, 6-20=-626/326, **WEBS** 8-19=0/515, 8-17=-2151/624, 9-17=-636/330, 11-17=-1055/3976, 11-16=0/480,

11-15=-5846/1545, 12-15=-571/284

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 0-7-0 oc.

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

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

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.

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

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=904. 15=1041.



Structural wood sheathing directly applied or 3-0-3 oc purlins,

11-15

Rigid ceiling directly applied or 6-0-0 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:

May 12,2022

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

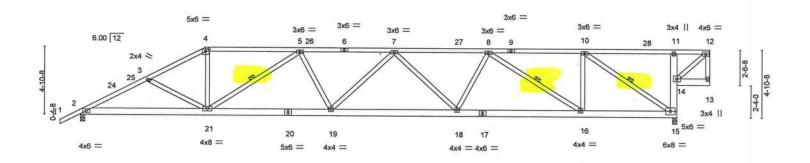
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Comp. Safety Information. available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20501



6904 Parke East Blvd.

Job		Truss		Truss Type		Qty	Ply	GIEBEIG - LOT 8	CW		
3163304		T03		Half Hip		1	1				T27693428
Builders First	Source (Lake	City FL)	Lake City, FL - 3	22055				Job Reference (or			
	orango (Edito	O.,,, L),	Lune Ony, I L	2000,					stries, Inc. Wed May 1 59IT0F3pC?z1IOS9ghl		
r1-6-0	4-10-15	9-0-0	1 15	9-8	22-7-0	29-4-8		36-2-0	42-11-8	45-4-0	(LITTOP
1-6-0	4-10-15	4-1-1	6-	9-8	6-9-8	6-9-8		6-9-8	6.9.8	2-4-8	

Scale = 1:80.3



1	9-0-0	18-0-11 9-0-11	27-1-5 9-0-11		36-2-0 9-0-11		42-11-8 6-9-8	45-4-0 2-4-8
Plate Offsets (X,Y)-	[4:0-3-0,0-2-0]				3-0-11		0-5-0	2-4-0
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	1.25 1.25 YES	CSI. FC 0.68 BC 0.68 VB 0.81 Matrix-MS	(loc) 18-19 18-19 15	l/defl >999 >897 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 280 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

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

Max Horz 2=178(LC 12)

Max Uplift 2=-409(LC 12), 15=-470(LC 9) Max Grav 2=1658(LC 1), 15=1767(LC 1)

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

TOP CHORD 2-3=-3108/764, 3-4=-2869/688, 4-5=-2550/650, 5-7=-3639/924, 7-8=-3452/886,

8-10=-1967/516 BOT CHORD 2-21=-785/2753

CHORD 2-21=-785/2753, 19-21=-918/3510, 18-19=-993/3727, 16-18=-861/3220, 15-16=-516/1967,

14-15=360/133, 11-14=-278/132

WEBS 3-21=-266/160, 4-21=-186/986, 5-21=-1230/389, 5-19=-30/368, 7-18=-387/231,

8-18=-121/543, 8-16=-1503/414, 10-16=-174/985, 10-15=-2377/616

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 3-0-6, Interior(1) 3-0-6 to 9-0-0, Exterior(2R) 9-0-0 to 15-4-15, Interior(1) 15-4-15 to 45-2-4 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.

Provide adequate drainage to prevent water ponding.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=409, 15=470.



Structural wood sheathing directly applied or 2-7-4 oc purlins,

5-21, 8-16, 10-15

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

except end verticals

1 Row at midpt

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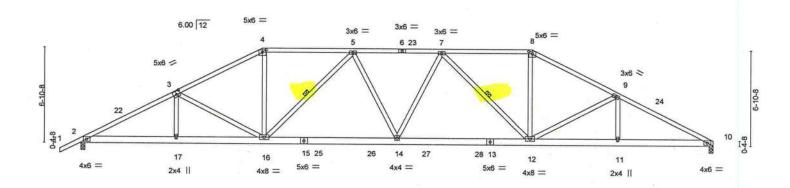
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



Job	Truss	Tn	uss Type		Qty	Ply	GIEBEIG - LOT 8 CW		
3163304	T05	Hip	0		1	1			T27693430
Builders FirstSour	ce (Lake City,FL),	Lake City, FL - 3205	5,		1		Job Reference (optional) 6 2021 MiTek Industries, Inc. We	ed May 11 14:42:04 20	022 Page 1
_c 1-6-0,	6-10-2	13-0-0	19-5-15	ID:MRU 25-10-1	ouoKKM	qHFlytM1PC- 32-4-0	4d7zYSsJ-6fdcFL7Pq4GzJ7MN5S 38-5-14	KsXaw14U4NgfzQgb 45-4-0	Yf?JzHY5n
1-6-0	6-10-2	6-1-14	6-5-15	6-4-1		6-5-15	6-1-14	6-10-2	

Scale = 1:79.8



-		13-0-0	22-8-0		32-4-0		38-5-14	45-4	-0 ,
Plate Offsets (X,Y)		6-1-14 ,0-2-0], [8:0-3-0,	9-8-0 0-2-0]		9-8-0		6-1-14	6-10	2
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC 0.63 BC 0.78 WB 0.58	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.33 12-14 -0.57 12-14 0.16 10	l/defl >999 >961 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code FBC2020/	TPI2014	Matrix-MS					Weight: 275 lb	FT = 20%

LUMBER-

WEBS

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

2x4 SP No.3

BRACING-

TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 9-0-0 oc bracing. 1 Row at midpt 5-16, 7-12

REACTIONS.

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

Max Horz 2=119(LC 12)

Max Uplift 10=-362(LC 13), 2=-395(LC 12) Max Grav 10=1846(LC 2), 2=1915(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3654/705, 3-4=-3088/599, 4-5=-2725/577, 5-7=-3327/654, 7-8=-2727/579,

8-9=-3091/602, 9-10=-3667/715

BOT CHORD 2-17=-656/3223, 16-17=-656/3226, 14-16=-544/3222, 12-14=-520/3223, 11-12=-568/3235,

10-11=-568/3235

WEBS 3-17=0/263, 3-16=-601/237, 4-16=-136/1100, 5-16=-795/241, 5-14=-63/311, 7-14=-62/310, 7-12=-794/240, 8-12=-142/1103, 9-12=-610/245, 9-11=0/266

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 3-0-6, Interior(1) 3-0-6 to 13-0-0, Exterior(2R) 13-0-0 to 19-5-15, Interior(1) 19-5-15 to 32-4-0, Exterior(2R) 32-4-0 to 38-5-14, Interior(1) 38-5-14 to 45-4-0 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.
- Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=362, 2=395.



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

May 12,2022

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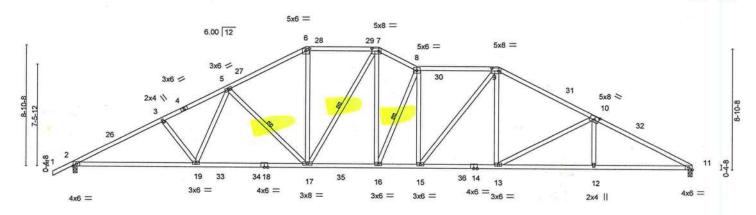
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss		Truss Type		Qty	Ply	GIEBEIG - LOT 8 CW		
3163304	T07		Roof Special		1		1		T27693432
D.11. E. 10							Job Reference (optional)		
Builders FirstSource	(Lake City,FL),	Lake City, FL -	32055,			8.530 s De	c 6 2021 MiTek Industries, Inc. 1	Wed May 11 14:42:08 20	022 Page 1
1 7.012/27	020				ID:MRUpuoK	KMqHFlytM1P	C4d7zYSsJ-?Qs74iAwtJmOnkf8	KIPoiQ4eK6QbcQ50bD\	Ns85zHY5i
1-6-0 1-6-0	6-7-4	11-4-4	, 17-0-0	22-4-0	, 25-1-8 ,	31-1-8	, 38-1-9	45-4-0	
1-6-0	6-7-4	4-9-0	5-7-12	5-4-0	2-9-8	6-0-0	7-0-1	7-2-7	

Scale = 1:81.5



1	9-0-1	17-0-0	22-4		31-1-8		38-1-9	45-4-	0 ,
Plate Offsets (X,Y)-	9-0-1 7-11- [6:0-3-0,0-2-0], [7:0-6-0,0-2-8], [9:0-6-0,0				6-0-0		7-0-1	7-2-7	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC 0.93 BC 0.96 WB 0.83	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.32 13-15 -0.55 17-19 0.19 11	l/defl >999 >993 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code FBC2020/Ti	212014	Matrix-MS	54 84				Weight: 270 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

1 Row at midpt

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

5-17, 7-17, 8-16

LUMBER-

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

2x4 SP No.2 *Except* 2-18: 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 11=0-3-8 Max Horz 2=149(LC 12) Max Uplift 2=-342(LC 12), 11=-360(LC 13) Max Grav 2=1923(LC 2), 11=1845(LC 2)

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

TOP CHORD 2-3=-3559/735, 3-5=-3399/732, 5-6=-2674/659, 6-7=-2353/633, 7-8=-2781/716,
8-9=-2924/729, 9-10=-2944/680, 10-11=-3588/751

2-19=-611/3135, 17-19=-525/2780, 16-17=-416/2486, 15-16=-527/2929, 13-15=-437/2575, **BOT CHORD** 12-13=-603/3166, 11-12=-604/3159

3-19=-278/170, 5-19=-96/579, 5-17=-626/249, 6-17=-140/933, 7-17=-394/136, WEBS

7-16=-291/1274, 8-16=-1228/335, 8-15=-308/134, 9-15=-139/560, 9-13=-75/576,

10-13=-681/262, 10-12=0/293

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 3-0-6, Interior(1) 3-0-6 to 17-0-0, Exterior(2R) 17-0-0 to 21-6-6, Interior(1) 21-6-6 to 22-4-0, Exterior(2E) 22-4-0 to 25-1-8, Interior(1) 25-1-8 to 31-1-8, Exterior(2R) 31-1-8 to 35-7-14, Interior(1) 35-7-14 to 45-4-0 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) 2=342, 11=360.



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May 12,2022

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6904 Parke East Blvd. Tampa FL 36610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 8 CW	
3163304	Т08	Hip Girder			Section of the sectio	T27693433
D. H F. 10		150 M. (1988 01007953)		2	Job Reference (optional)	

Builders FirstSource (Lake City.FL).

Lake City, FL - 32055.

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NOTES-

10) 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, 97 lb down and 77 lb up at 11-0-12, 97 lb down and 77 lb up at 15-0-12, 97 lb down and 77 lb up at 15-0-12, 97 lb down and 77 lb up at 15-0-12, 97 lb down and 77 lb up at 19-0-12, 97 lb down and 77 lb up at 22-3-4, 97 lb down and 77 lb up at 24-3-4, 97 lb down and 77 lb up at 26-3-4, 110 lb down and 90 lb up at 28-3-4, and 110 lb down and 90 lb up at 30-3-4, and 230 lb down and 173 lb up at 32-4-0 on top chord, and 335 lb down and 174 lb up at 7-0-0, 86 lb down at 90-0-12, 78 lb down and 32 lb up at 13-0-12, 78 lb down and 32 lb up at 15-0-12, 78 lb down and 32 lb up at 15-0-12, 78 lb down and 32 lb up at 26-5-12, 86 lb down and 32 lb up at 20-3-4, 78 lb down and 32 lb up at 20-3-4, and 86 lb down at 30-3-4, and 335 lb down and 174 lb up at 32-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-11=-54, 11-14=-54, 2-21=-20, 17-20=-20, 13-16=-20

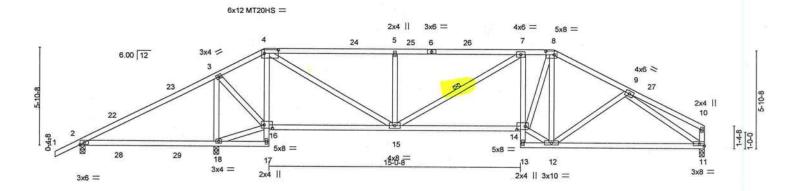
Concentrated Loads (lb)

Vert: 4=-110(F) 8=-97(F) 11=-182(F) 6=-97(F) 10=-97(F) 17=-77(F) 15=-335(F) 28=-110(F) 29=-97(F) 30=-97(F) 31=-97(F) 33=-97(F) 34=-97(F) 35=-97(F) 36=-110(F) 37=-110(F) 38=-335(F) 39=-64(F) 40=-77(F) 41=-77(F) 42=-77(F) 43=-77(F) 44=-77(F) 45=-77(F) 46=-77(F) 47=-64(F) 48=-64(F)



Job	Truss	Truss Type		C	ty Ply		GIEBEIG - LO	T 8 CW		
3163304	T10	Hip		1		1				T27693435
Builders FirstSource	e (Lake City EL)	Lake City, FL - 32055.			9.520.5		Job Reference			
	e (Lake Oity, FL),	Lake City, FL - 32005,		ID:MRUpuoKKM					ed May 11 14:42:16 2 06Q3yKBQU3hBRT	
L-1-6-0 ₁	8-1-12	11-0-0 11 _r 3-8	18-9-12		26-4-0		. 28-4-0 .	32-8-4	37-4-0	
1-6-0	8-1-12	2-10-4 0-3-8	7-6-4		7-6-4		2-0-0	4-4-4	4-7-12	⊣ .

Scale = 1:66,5



		8-1-12	11-3-8	18-9-12	26-4-0		28-	4-0 ,	37-4-0	190
		8-1-12	3-1-12	7-6-4	7-6-4		2-0	0-0	9-0-0	
Plate Offse	ets (X,Y)-	[4:0-10-0,0-2-8], [8:0-6-0	,0-2-8], [14:0-6	-0,0-2-8], [16:0-6-0,0-2-8]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. i	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.76		3 18-21	>422	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.77	107/2017 (Million 1981)	3 18-21	>529	180	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB 0.73	Horz(CT) 0.00		n/a	n/a		10171110
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS	T1. T2. T2. T2. T2. T2. T2. T2. T2. T2. T2				Weight: 215 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

4-17,7-13: 2x4 SP No.3

2x4 SP No.3 **WEBS**

(size) 2=0-3-8, 18=0-3-8, 11=0-3-8

Max Horz 2=125(LC 12)

Max Uplift 2=-161(LC 24), 18=-405(LC 9), 11=-238(LC 13) Max Grav 2=104(LC 23), 18=1777(LC 1), 11=985(LC 1)

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

TOP CHORD 2-3=-131/676, 4-5=-1318/358, 5-7=-1318/358, 7-8=-1402/396, 8-9=-1260/331 **BOT CHORD**

2-18=-576/152, 4-16=-839/233, 14-15=-270/1426, 7-14=-312/175, 11-12=-260/1085 **WEBS**

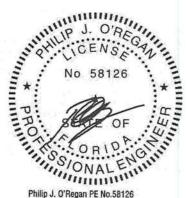
3-18=-1386/343, 3-16=-178/970, 4-15=-339/1385, 5-15=-460/222, 12-14=-150/1214,

8-14=-265/911, 8-12=-403/140, 9-11=-1219/318, 16-18=-563/171

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 and C-C Exterior(2E) -1-6-0 to 2-2-13, Interior(1) 2-2-13 to 11-0-0, Exterior(2R) 11-0-0 to 16-3-6, Interior(1) 16-3-6 to 28-4-0, Exterior(2R) 28-4-0 to 33-7-6, Interior(1) 33-7-6 to 37-2-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=161, 18=405, 11=238.



Structural wood sheathing directly applied or 3-11-4 oc purlins,

7-15

Rigid ceiling directly applied or 6-0-0 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

May 12,2022

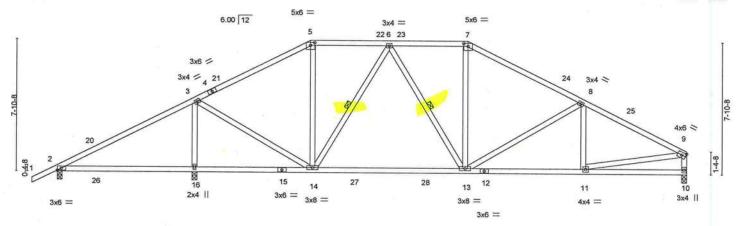
Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTex® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply GIEBEIG - LOT 8 CW T27693437 3163304 T12 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 11 14:42:19 2022 Page 1 ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-AX1HOTIqHh9qcQ?GT55Nel1ZzXBShTAd7Rhx1yzHY5Y 15-0-0 6-10-4 24 37-4-0 4-8-0

Scale = 1:66.0



⊢	8-1-12 8-1-12		5-0-0	24-4-0			31-2-4	37-4-	
Plate Offsets (X			-10-4	9-4-0			6-10-4	6-1-1	2
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC 0.71 BC 0.88 WB 0.49	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.26 16-19 0.21 16-19 0.03 10	l/defl >383 >468 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code FBC2020	TPI2014	Matrix-MS	M 8				Weight: 210 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS.

(size) 2=0-3-8, 16=0-3-8, 10=0-3-8

Max Horz 2=155(LC 12)

Max Uplift 2=-86(LC 9), 16=-324(LC 12), 10=-242(LC 13) Max Grav 2=322(LC 23), 16=1646(LC 2), 10=1140(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-5=-954/255, 5-6=-782/257, 6-7=-1118/322, 7-8=-1319/317, 8-9=-1588/348,

9-10=-1039/256

BOT CHORD 13-14=-132/1013, 11-13=-257/1376

WEBS 3-16=-1354/347, 3-14=-102/1020, 6-14=-501/160, 6-13=-63/251, 7-13=-31/334

8-13=-330/184, 9-11=-229/1281

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-2-13, Interior(1) 2-2-13 to 15-0-0, Exterior(2R) 15-0-0 to 20-3-6, Interior(1) 20-3-6 to 24-4-0, Exterior(2R) 24-4-0 to 29-7-6, Interior(1) 29-7-6 to 37-2-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 16=324, 10=242.



Structural wood sheathing directly applied or 4-5-0 oc purlins,

6-14, 6-13

Rigid ceiling directly applied or 6-0-0 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:

May 12,2022

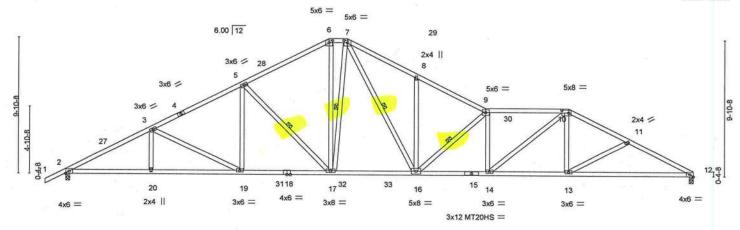
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. MARNING - Verity design parameters and NEAD NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MITER AT NOT. AT NOT. AT NOT. AND INCLUDE OF THE COST.

Design valid for use only with MITER® 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 dange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP11 Quality Criteria, DSB-39 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20501



Job Truss Truss Type Qty Ply GIEBEIG - LOT 8 CW T27693439 3163304 T14 Roof Special | Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 11 14:42:22 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-b6jP1VKiacXPTukr8Ef4GNf85lJpuoc3pPvceHzHY5V 36-4-0 40-6-8

Scale = 1:80.4



			2-0-14	19-0-0		25-4-0	30-4	4-0	1	36-4-0	45-4-0	- 7
		6-2-2	3-6-12	6-3-2		6-4-0	5-0	0-0		6-0-0	9-0-0	
Plate Off	sets (X,Y)-	[6:0-3-0,0-2-0], [7:0-3-0,0	0-2-0], [10:0-6-0	,0-2-8]								
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	0.46	Vert(LL)	-0.35 16		>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.60 16	5337.Fb	>914	180	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.16	12	n/a	n/a	MIZOITO	1011145
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS		100000	11.700			Weight: 275 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

9-10: 2x4 SP M 31

6-2-2

BOT CHORD 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS. (size) 12=0-3-8, 2=0-3-8

Max Horz 2=164(LC 12)

Max Uplift 12=-371(LC 13), 2=-357(LC 12) Max Grav 12=1825(LC 2), 2=1911(LC 2)

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

TOP CHORD 2-3=-3612/672, 3-5=-3073/634, 5-6=-2485/585, 6-7=-2173/569, 7-8=-3364/817,

8-9=-3345/734, 9-10=-4029/874, 10-11=-3329/708, 11-12=-3544/766 2-20=-625/3183, 19-20=-625/3183, 17-19=-443/2694, 16-17=-301/2184, 14-16=-746/4051,

BOT CHORD 2-20=-625/3183, 19-20=-625/3183, 17-13-14=-522/2947, 12-13=-634/3151

WEBS 3-19=-551/207, 5-19=-49/498, 5-17=-761/274, 6-17=-184/902, 7-17=-334/163,

7-16=-470/1671, 8-16=-315/198, 9-16=-1484/380, 9-14=-698/199, 10-14=-276/1373,

10-13=-30/407, 11-13=-277/163

NOTES-

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-0-6, Interior(1) 3-0-6 to 19-0-0, Exterior(2E) 19-0-0 to 20-4-0, Exterior(2R) 20-4-0 to 24-10-6, Interior(1) 24-10-6 to 36-4-0, Exterior(2R) 36-4-0 to 40-8-7, Interior(1) 40-8-7 to 45-4-0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=371, 2=357.



Structural wood sheathing directly applied or 2-9-12 oc purlins.

5-17, 7-17, 7-16, 9-16

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

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:

May 12,2022

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

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ANSITPI 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 GIEBEIG - LOT 8 CW 3163304 T27693441 T16 Roof Special 1 Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 11 14:42:25 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-?hOYfXNatXv_KLSQpMCnu0HY1yCs58OWWM8GEczHY5S 27-1-8 39-0-11 5-11-3 33-1-8

Scale = 1:80.4

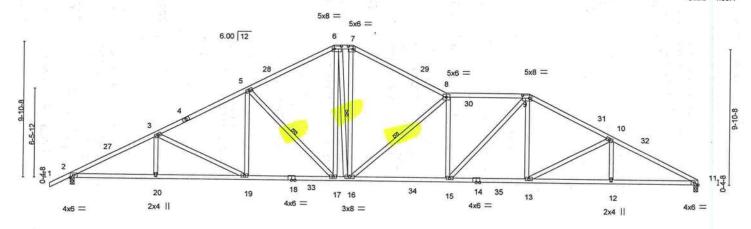


Plate Offsets (X,Y)-		2-8-14 6-6-12 0-2-8], [9:0-6-0,0	19-0-0 6-3-2 0-2-8]	20-4-0 1-4-0	27-1-8 6-9-8	- 1	33-1-8 6-0-0	-1	39-0-11 5-11-3	45-4-0 6-3-5
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/	2-0-0 1.25 1.25 YES TPI2014	BC 1	0.93 1.00 0.70 MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.37 15-16 -0.65 15-16 0.22 11	l/defi >999 >840 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 2	GRIP 244/190 80 lb FT = 20%

LUMBER-

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

TOP CHORD BOT CHORD **WEBS**

Structural wood sheathing directly applied. Rigid ceiling directly applied or 1-4-12 oc bracing. 1 Row at midpt 5-17, 6-16, 8-16

REACTIONS.

(size) 11=0-3-8, 2=0-3-8

Max Horz 2=164(LC 16)

Max Uplift 11=-371(LC 13), 2=-357(LC 12) Max Grav 11=1848(LC 2), 2=1912(LC 2)

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

2-3=-3612/679, 3-5=-3080/641, 5-6=-2479/593, 6-7=-2205/579, 7-8=-2516/606, TOP CHORD

8-9=-3320/750, 9-10=-3102/676, 10-11=-3629/732

BOT CHORD 2-20=-625/3183, 19-20=-625/3183, 17-19=-451/2701, 16-17=-306/2161, 15-16=-576/3328,

13-15=-454/2727, 12-13=-593/3199, 11-12=-593/3199

WEBS 3-19=-545/207, 5-19=-50/513, 5-17=-779/275, 6-17=-167/622, 6-16=-166/484, 7-16=-182/874, 8-16=-1522/409, 8-15=-431/166, 9-15=-172/862, 9-13=-67/489,

10-13=-556/218

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 3-0-6, Interior(1) 3-0-6 to 19-0-0, Exterior(2E) 19-0-0 to 20-4-0, Exterior(2R) 20-4-0 to 24-10-6, Interior(1) 24-10-6 to 33-1-8, Exterior(2R) 33-1-8 to 37-7-14, Interior(1) 37-7-14 to 45-4-0 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) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=371, 2=357.



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

May 12,2022

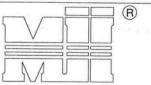
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T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

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.

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		
	/// //+/	1	SPACING	
WEB		1 1		
		1 -1	T-BRACE	
	The state of the s			
Nails	Section Detail			
T.	T-Brace			

Nails	
Web	I-Brace
Nails	

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

T-Brace / I-Brace must be same species and grade (or better) as web member.

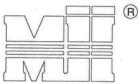


Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc. ENGINEERED BY

- 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 APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

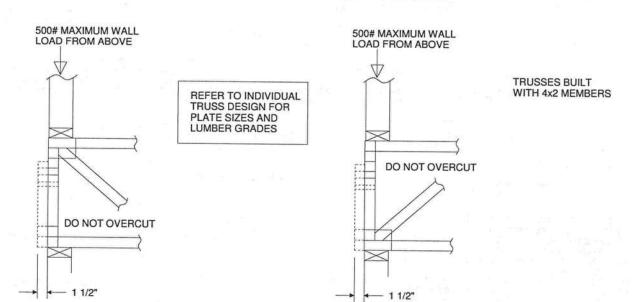
 3. THE END DISTANCE. EDGE DISTANCE. AND SPACING OF NAIL S. SHALL BE
- APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

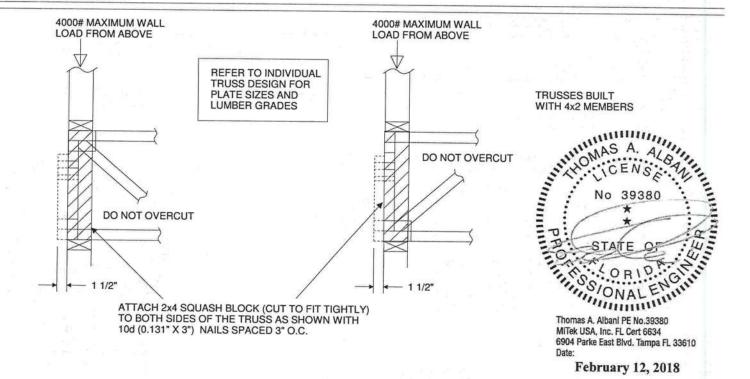
 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

 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.

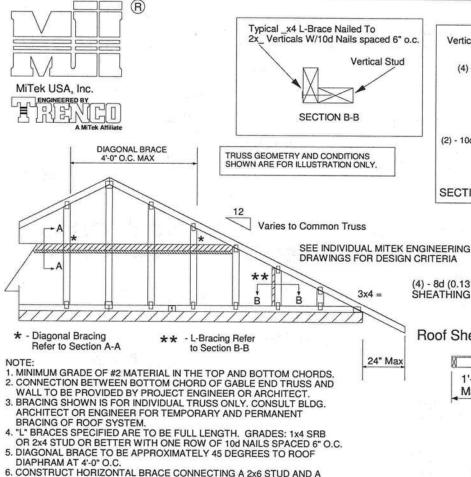
 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail

MII-GE130-SP



MiTek USA, Inc. Page 1 of 2 Vertical Stud DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails SECTION A-A

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

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3" - 10d Max. NAILS (2) - 10d NAILS Trusses @ 24" o.c.

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)

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.

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.

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

(REFER TO SECTION A-A)

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade	10 Te	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		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.

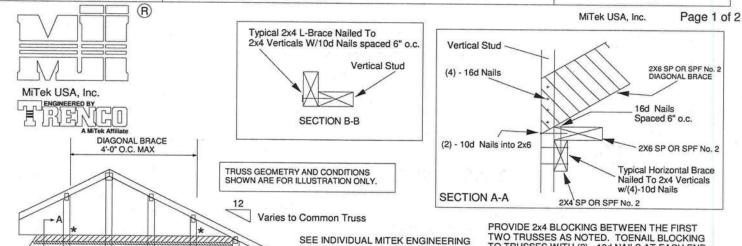


Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:



Standard Gable End Detail

MII-GE170-D-SP



DRAWINGS FOR DESIGN CRITERIA

24" Max

3x4 =

* - Diagonal Bracing Refer to Section A-A

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

**

B

NOTE

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

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

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

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

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES

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

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

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

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade	11 11 2	Ya.	Maximum St	ud Length	100
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.

Diag. Brace at 1/3 points if needed End Wall 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'-0" (2) - 10d Max. NAILS

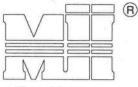
> 2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

(2) - 10d NAILS

Trusses @ 24" o.c.

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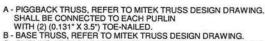


MiTek USA, Inc.

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

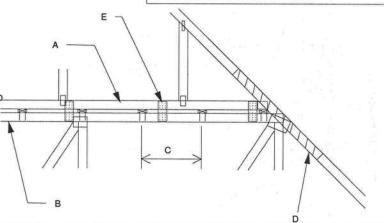
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.



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

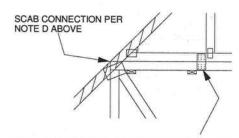
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft. E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH

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

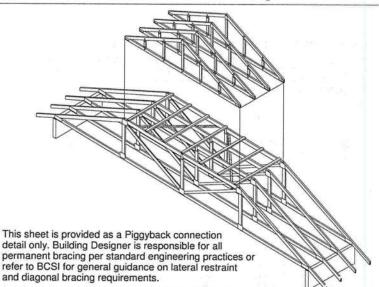


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

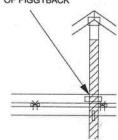
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH NAII-ON PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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.

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



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

MII-REP01A1

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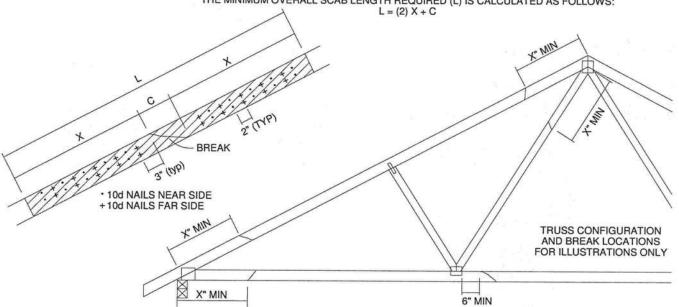
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *				MAX	(IMUM FO	RCE (lbs)	15% LOA	D DURAT	ION	
		X	SP		DF		DF SPF		Н	IF
2x4	2x6	A 21	2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN.

STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

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



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

DO NOT USE REPAIR FOR JOINT SPLICES

- NOTES:

 1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES

 NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS

 SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED

 REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR

 AND HELD IN PLACE DURING APPLICATION OF REPAIR.
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- UNUSUAL SPLITTING OF THE WOOD.

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

 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ORIENTATION ONLY.

 6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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

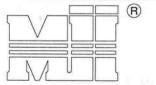
January 19, 2018

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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A RISK

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

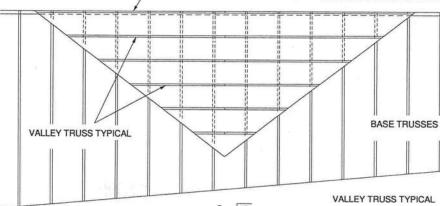
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
SECURE PER DETAIL A
BRACE VALLEY WEEK IN ACCORDANCE WITH THE

4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.

5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.

6. NAILING DONE PER NDS - 01

7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



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

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO USP WS3 (1/4" X 3") WOOD SCREWS INTO EACH BASE TRUSS.

> DETAIL A (NO SHEATHING) N.T.S.

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

ON THE TRUSSES

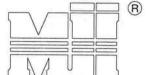


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January 19, 2018

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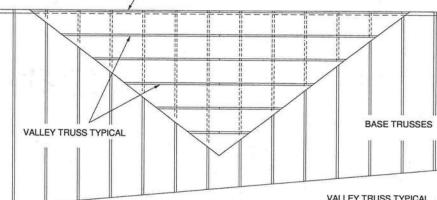
MiTek USA, Inc.



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.
 NAILING DONE PER NDS - 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



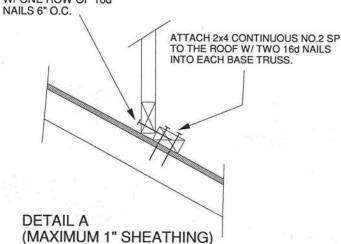
VALLEY TRUSS TYPICAL

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL
A BELOW (TYP.)

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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OR 10 CENS

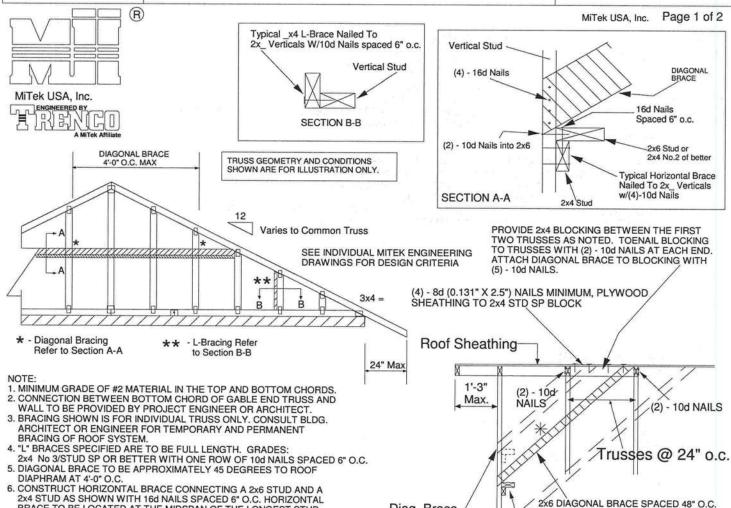
OR 10 CENS

Thomas A. Albani PE No.39380

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

Standard Gable End Detail

MII-GE146-001



Diag. Brace

at 1/3 points

End Wall

if needed

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 DEFLECTIÓN 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.

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

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAI BRACES AT 1/3 POINTS	
and Grade		Maxim	num Stud L	ength		
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.



ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED

6904 Parke East Blvd, Tampa FL 33610

January 19, 2018

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

6904 Parke East Blvd. Tampa FL 33610 Date: February 12, 2018

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.

