

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25138-25138A

Wellons BB 1398 Extended

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I43832984 thru I43833011

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



December 2,2020

Vance, Jeff

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.

Job Truss Truss Type Wellons BB 1398 Extended 143832984 25138-25138A ROOF TRUSS Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:07 2020 Page 1 84 Components (Dunn), Dunn, NC - 28334,

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

5-14, 6-13, 8-11, 3-16

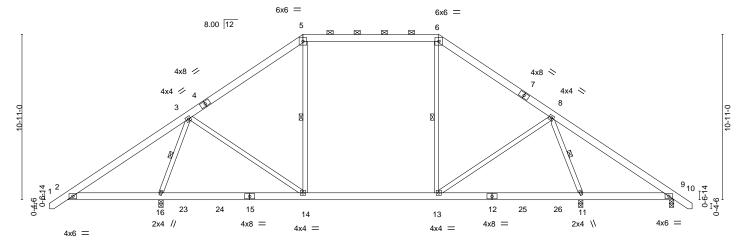
2-0-0 oc purlins (6-0-0 max.): 5-6.

1 Row at midpt

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

ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-zznSY3Enki0WB1_5zJaHuLrJN?3M6LGZHGV4cVyD?gA <u>31-10-15</u> 41-2-8 1-2-8 24-5-13 40-0-0 8-1-1 8-11-9 7-5-3

Scale = 1:76.0



	6-0-0 6-0-0	15-6-3 9-6-3	+	24-5-13 8-11-9	33-10-4 9-4-7	40-0-0 6-1-12
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/		CSI. TC 0.65 BC 0.57 WB 0.43 Matrix-MS	Vert(LL) -0.08 Vert(CT) -0.18 Horz(CT) 0.03	n (loc) I/defl L/d 3 13-14 >999 240 5 13-14 >999 180 2 9 n/a n/a 7 13-14 1426 360	PLATES GRIP MT20 244/190 Weight: 281 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 11=0-3-8, 16=0-3-8, 9=0-3-8 (size)

Max Horz 16=-275(LC 10)

Max Uplift 11=-215(LC 13), 16=-76(LC 12), 9=-247(LC 9) Max Grav 11=2011(LC 21), 16=1874(LC 1), 9=310(LC 10)

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

2-3=-341/641, 3-5=-1083/16, 5-6=-807/75, 6-8=-1099/30, 8-9=-555/789 TOP CHORD

BOT CHORD 2-16=-418/396, 14-16=-175/387, 13-14=-16/934, 11-13=-227/531, 9-11=-589/512 WEBS 3-14=0/739, 6-13=-170/267, 8-13=-8/687, 8-11=-1819/283, 3-16=-1743/349

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, with BCDL = 10.0psf.
- 6) Ceiling dead load (5.0 psf) on member(s). 5-6; Wall dead load (5.0 psf) on member(s).5-14, 6-13
- 7) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11, 16, and 9. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.







24-5-13

8-11-9

15-6-3

7-5-3

7-5-3 Scale = 1:74.5

₩ 10

2x4 \\

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

5-13, 6-12, 8-10, 3-15

4x6 =

25

11

4x8 =

2-0-0 oc purlins (5-11-12 max.): 5-6.

1 Row at midpt

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

12

4x4 =

24

40-0-0

6x6 = 6x6 = 8.00 12 5 4x8 🖊 4x8 💸 4x4 // 4x4 > 0-6 1-9-0 15

	6-0-0 6-0-0	15-6- 9-6-3		24-5-13 8-11-9			3-10-4 9-4-7	40-0-0 6-1-12	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DO Lumber DOL Rep Stress II Code IRC20	1.15 ncr YES	CSI. TC 0.65 BC 0.90 WB 0.45 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Attic	in (loc) -0.18 12-13 -0.24 12-13 0.02 9 -0.16 12-13	l/defl >999 >999 n/a 637	L/d 240 180 n/a 360	PLATES MT20 Weight: 278 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

4x6 =

REACTIONS. 10=0-3-8, 15=0-3-8, 9=0-3-8 (size)

8-1-1

Max Horz 15=269(LC 9)

Max Uplift 10=-219(LC 13), 15=-75(LC 12), 9=-248(LC 9) Max Grav 10=2144(LC 21), 15=1993(LC 2), 9=312(LC 8)

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

2-3=-341/641, 3-5=-1239/16, 5-6=-938/75, 6-8=-1255/30, 8-9=-556/797 BOT CHORD 2-15=-418/396, 13-15=-182/422, 12-13=-24/1047, 10-12=-234/573, 9-10=-589/501

WEBS

22

2x4

23

14

4x8 =

13

3-13=0/843, 5-13=-156/337, 6-12=-169/347, 8-12=-9/783, 8-10=-1980/285,

3-15=-1855/349

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * 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.
- 6) Ceiling dead load (5.0 psf) on member(s). 5-6; Wall dead load (5.0psf) on member(s).5-13, 6-12
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10, 15, and 9. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



🗥 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's 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty Wellons BB 1398 Extended 143832986 25138-25138A A2 PIGGYBACK BASE 11 Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:08 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-RAKqmPEPV08NpBZHX05WRZOXBPRfrk9iWwEd8xyD?g9 15-6-3 7-5-3 22-6-0 8-1-1 6-11-13 Scale = 1:65.9 6x6 = 4x4 = 8.00 12 5 6 \boxtimes 4x6 🖊 1 3x4 3 × 9 10 14 15 16 8 2x4 // 2x4 || 4x6 =4x8 = 4x4 = 6-0-0 15-6-3 6-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) Plate Grip DOL Vert(LL) -0.06 >999 240 244/190 TCLL 20.0 1.15 TC 8-10 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.37 Vert(CT) -0.12 8-10 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.64 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-MS Weight: 185 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

WEBS

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

REACTIONS.

7=0-3-8, 2=0-3-8 (size) Max Horz 2=425(LC 12) Max Uplift 7=-161(LC 12), 2=-75(LC 12) Max Grav 7=922(LC 2), 2=960(LC 1)

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

2-3=-1297/54, 3-5=-650/75, 5-6=-435/121, 6-7=-842/270 TOP CHORD

BOT CHORD 2-10=-314/1085, 8-10=-341/976 WEBS 3-10=0/383, 3-8=-666/290, 6-8=-223/801

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, with BCDL = 10.0psf.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

6-7, 3-8, 5-8

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

1 Row at midpt

MARNING - 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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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Wellons BB 1398 Extended 143832987 25138-25138A A2E PIGGYBACK BASE SUPPO Job Reference (optional)

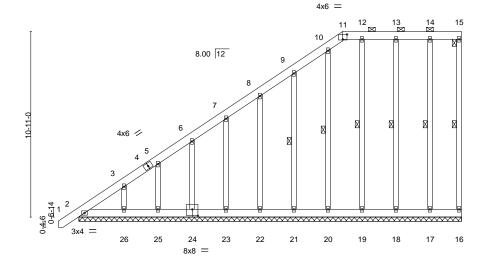
84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:09 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-vMuCzlF1GKGEQK8U4kdlzmxnxosKaKXska_BgNyD?g8

22-6-0 15-6-3 6-11-13

Scale = 1:67.8



22-6-0

Plate Offsets (X,Y)	[11:0-3-0,0-3-8], [24:0-4-0,0-4-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 1 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 1 n/r 90	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 16 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 232 lb FT = 20%

2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

BRACING-

WEBS

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 11-15. Rigid ceiling directly applied or 10-0-0 oc bracing.

15-16, 14-17, 13-18, 12-19, 10-20, 9-21 1 Row at midpt

REACTIONS. All bearings 22-6-0.

Max Horz 2=426(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 All reactions 250 lb or less at joint(s) 16, 2, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

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

TOP CHORD 2-3=-455/371, 3-5=-374/297, 5-6=-314/252, 6-7=-252/204

NOTES-

LUMBER-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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) Provide adequate drainage to prevent water ponding.
- 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.

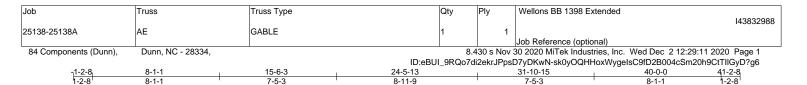
10) n/a

- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 2,2020





8-11-9

7-5-3

Scale = 1:73.3

1-2-8

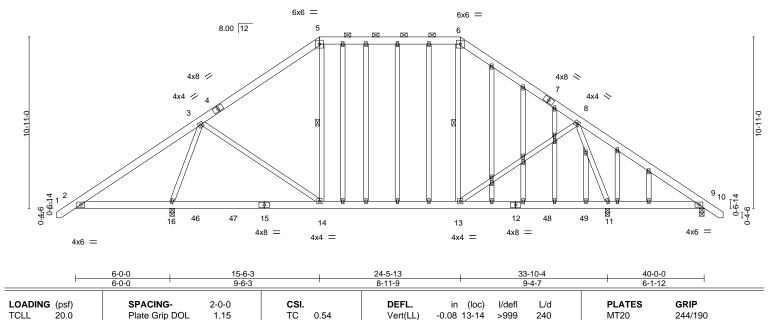
8-1-1

Weight: 386 lb

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

5-14, 6-13

FT = 20%



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.11 13-14

9

1 Row at midpt

0.01

>999

n/a

180

n/a

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

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

LUMBER-TOP CHORD

TCDL

BCLL

BCDL

2x6 SP No.2

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

10.0

0.0

10.0

OTHERS 2x4 SP No.3

REACTIONS.

(size) 11=0-3-8, 16=0-3-8, 9=0-3-8

Lumber DOL

Rep Stress Inci

Code IRC2015/TPI2014

Max Horz 16=-275(LC 10)

8-1-1

Max Uplift 11=-372(LC 13), 16=-233(LC 12), 9=-247(LC 9) Max Grav 11=1819(LC 20), 16=1681(LC 1), 9=309(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-342/638, 3-5=-866/192, 5-6=-626/222, 6-8=-882/206, 8-9=-555/788 **BOT CHORD** 2-16=-416/397, 14-16=-229/322, 13-14=-164/752, 11-13=-286/459, 9-11=-588/512

1.15

YES

3-14=-32/598, 8-13=-117/552, 8-11=-1609/453, 3-16=-1533/519 WFBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB

Matrix-MS

0.41

0.98

- 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.
- Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11, 16, and 9. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MARNING - 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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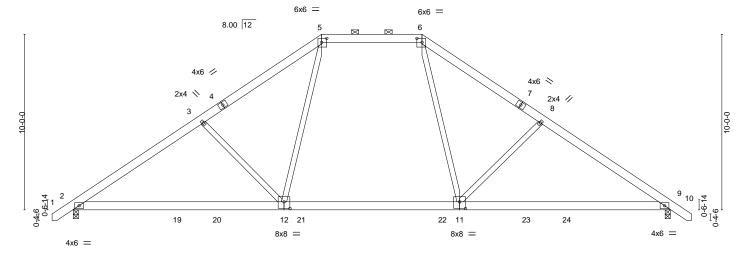
ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Wellons BB 1398 Extended 143832989 25138-25138A В **ROOF TRUSS** Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:11 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-sk0yOQHHoxWygelsC9fD2B03ZcNf2919CtTlIGyD?g6

19-10-5 35-2-8 1-2-8 34-0-0 7-4-13 6-8-15 5-8-9 6-8-15 7-4-13

Scale = 1:65.6



22-0-0 12-0-0 Plate Offsets (X,Y)--[5:0-3-8,0-2-12], [6:0-3-8,0-2-12], [11:0-4-0,0-4-8], [12:0-4-0,0-4-8] LOADING (psf) SPACING-DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.26 12-15 >999 240 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.73 Vert(CT) -0.38 12-15 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.44 Horz(CT) 0.05 n/a n/a Code IRC2015/TPI2014 **BCDL** Matrix-MS FT = 20%10.0 Weight: 227 lb

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=-252(LC 10)

Max Uplift 2=-153(LC 12), 9=-153(LC 13) Max Grav 2=1449(LC 20), 9=1449(LC 21)

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

TOP CHORD 2-3=-2042/396, 3-5=-1812/396, 5-6=-1264/374, 6-8=-1812/396, 8-9=-2042/396

BOT CHORD 2-12=-219/1796, 11-12=-6/1278, 9-11=-197/1664

WFBS 3-12=-508/316, 5-12=-65/744, 6-11=-65/745, 8-11=-509/316

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * 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.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Structural wood sheathing directly applied or 4-9-13 oc purlins,

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

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

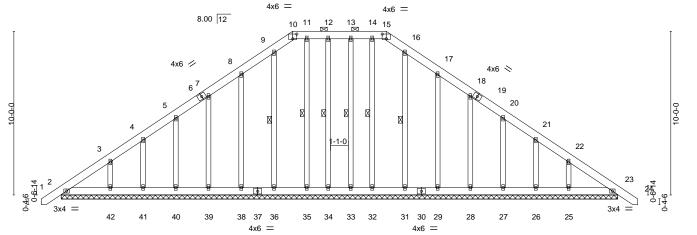


Job Truss Truss Type Qty Wellons BB 1398 Extended 143832990 BE 25138-25138A GABLE Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:13 2020 Page 1

ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-o78jp6IYKYmgvySFJahh8c5U5QE6W7HRfByOp9yD?g4

16-5-8 17-6-8 19-10-5 2-3-13 1-1-0 2-3-13 35-2-8 1-2-8 ղ<u>1-2-8</u> 1-2-8 14-1-11 14-1-11

Scale = 1:70.4



			16-5-8			1 ₁ 7-6-8			34	l-0-0		
		· ·	16-5-8			1-1-0			16	6-5-8		
Plate Off	sets (X,Y)	[10:0-3-0,0-3-8], [15:0-3-	0,0-3-8]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	23	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.03	Vert(CT)	0.00	23	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix	c-S	\					Weight: 323 lb	FT = 20%
											3	

LUMBER-**BRACING-**

TOP CHORD TOP CHORD 2x6 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x6 SP No.2 2-0-0 oc purlins (6-0-0 max.): 10-15. WEBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3 **WEBS** 11-35, 9-36, 14-32, 16-31, 12-34, 13-33 1 Row at midpt

REACTIONS. All bearings 34-0-0.

Max Horz 2=-252(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 36, 38, 39, 40, 41, 42, 29, 28, 27, 26, 25, 34, 33 Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 23, 34, 33

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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) Provide adequate drainage to prevent water ponding.
- 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.

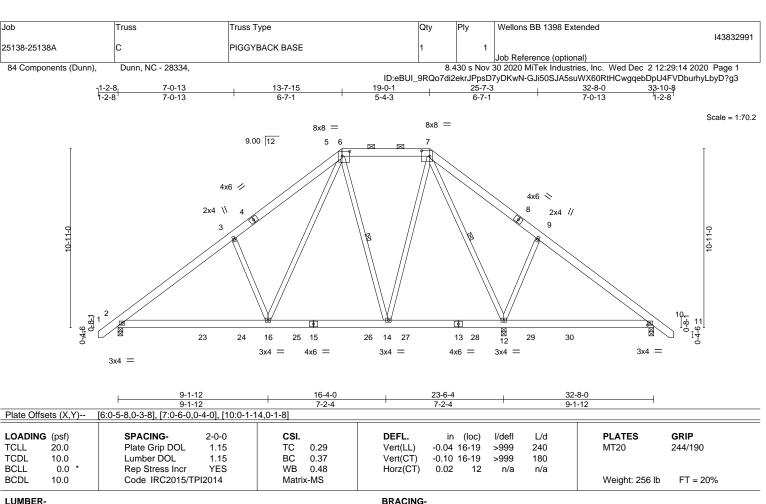
10) n/a

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 2,2020





TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8

Max Horz 2=-275(LC 10)

Max Uplift 2=-119(LC 12), 12=-134(LC 13), 10=-46(LC 13) Max Grav 2=1068(LC 19), 12=1286(LC 2), 10=506(LC 1)

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

TOP CHORD 2-3=-1275/235, 3-5=-1205/352, 5-6=-370/176, 6-7=-540/251, 7-9=-294/189,

9-10=-390/68

BOT CHORD 2-16=-157/1145, 14-16=-91/703, 12-14=-49/516, 10-12=0/291

WEBS 3-16=-442/299, 5-16=-201/759, 6-14=-333/157, 7-14=-74/597, 7-12=-728/75,

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, with BCDL = 10.0psf.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 10. This connection is for uplift only and does not consider lateral forces.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

6-14, 7-12

2-0-0 oc purlins (6-0-0 max.): 6-7.

1 Row at midpt

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

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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Wellons BB 1398 Extended 143832992 25138-25138A C1 **ROOF TRUSS** Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:15 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-kWGTEoKosA0N9FbdR?k9D1Bc7Dkp_wpk7VRVu1yD?g2 7-0-13 7-0-13 19-0-1 23-8-0 6-7-1 5-4-3 10x12 MT18HS = Scale = 1:69.2 8x8 9.00 12 4x6 4x6 / 6 11 2x4 3 2 1-8-1 • 12 11 10 8 4x8 = 4x8 =4x8 3x4 = 8x8 2x4 6x6 =4x6 = 3x4 II 21<u>-4-0</u> 23-8-0 Plate Offsets (X,Y)--[4:0-4-0,0-3-14], [5:0-9-4,0-4-12], [8:0-4-0,0-4-8] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.92 Vert(LL) -0.35 12-15 >811 240 MT20 244/190 -0.67 12-15 **TCDL** 10.0 Lumber DOL 1.15 BC 0.72 Vert(CT) >420 180 MT18HS 244/190 **BCLL** 0.0 Rep Stress Incr YES WB 0.58 0.02 Horz(CT) n/a n/a Code IRC2015/TPI2014 BCDL Matrix-MS Weight: 206 lb FT = 20%10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

4-5: 2x8 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except*

7-10: 2x6 SP DSS **WEBS** 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=322(LC 12)

Max Uplift 1=-76(LC 12), 7=-103(LC 12) Max Grav 1=990(LC 20), 7=1015(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1165/189, 2-4=-972/221, 4-5=-494/220, 5-6=-460/142, 6-7=-1622/306

BOT CHORD 1-12=-306/1037, 8-12=-96/513

WEBS 2-12=-599/328, 4-12=-64/657, 5-8=-458/147, 6-8=-218/1494

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Structural wood sheathing directly applied or 2-2-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

1 Row at midpt

December 2,2020

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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Wellons BB 1398 Extended 143832993 25138-25138A C1A ROOF TRUSS Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:16 2020 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-CiprR8LQdT8EmPAq?iFOIFjm4d1JjKwuL9A2QTyD?g1 19-0-1 23-8-0 7-0-13 6-7-1 5-4-3 4-7-15 Scale = 1:68.3 10x12 MT18HS ◇ 8x8 = 9.00 12 6x6 1

16 17 12 11 10 5x9 = 5x9 = 5x9 3x4 = 8x8 = 2x4 || 6x6 =4x6 =5x12 =

21-4-0 11-4-0 23-8-0 11-4-0 Plate Offsets (X Y)-- [1:0-0-0 0-0-10] [4:0-4-0 0-3-14] [5:0-7-4 0-5-0] [6:0-2-4 0-2-12] [8:0-4-0 0-4-12]

Tidle Offices (X, T)	1 late 0130t3 (X, 1) [1.0 0 0,0 0 10], [4.0 4 0,0 0 14], [0.0 7 4,0 0 0], [0.0 2 4,0 2 12], [0.0 4 0,0 4 12]										
LOADING (psf)	SPACING- 2-6-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP							
TCLL 20.0	Plate Grip DOL 1.15	TC 0.97	Vert(LL) -0.41 12-15 >695 240	MT20 244/190							
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.79 12-15 >359 180	MT18HS 244/190							
BCLL 0.0 *	Rep Stress Incr NO	WB 0.72	Horz(CT) 0.02 1 n/a n/a								
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 206 lb FT = 20%							

BRACING-

TOP CHORD

BOT CHORD

WEBS

2-0-0 oc purlins (3-2-2 max.), except end verticals

5-8, 6-7

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

(Switched from sheeted: Spacing > 2-0-0).

1 Row at midpt

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

4-5: 2x8 SP No.2, 5-6: 2x6 SP DSS

BOT CHORD 2x6 SP No.2 *Except*

7-10: 2x6 SP DSS

WEBS 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=402(LC 12)

Max Uplift 1=-95(LC 12), 7=-129(LC 12) Max Grav 1=1237(LC 20), 7=1268(LC 2)

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

TOP CHORD $1\hbox{-}2\hbox{--}1460/237, 2\hbox{-}4\hbox{--}1219/277, 4\hbox{-}5\hbox{--}624/276, 5\hbox{-}6\hbox{--}536/172, 6\hbox{-}7\hbox{--}1969/372}$

BOT CHORD 1-12=-383/1298, 8-12=-122/647

WEBS 2-12=-735/406, 4-12=-84/835, 5-8=-616/194, 6-8=-269/1844

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



December 2,2020



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

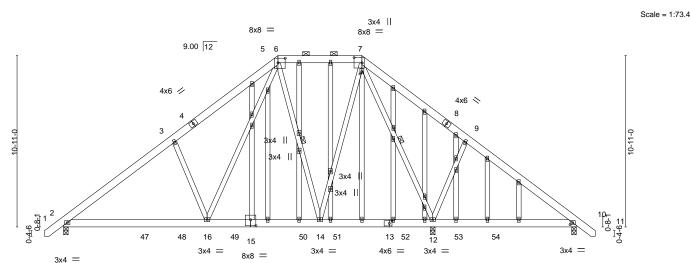
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-guNEfUL2NnG5OZI0YPmdlSG6S1WoSry1apwcywyD?g0 33-10-8 1-2-8 19-0-1 25-7-3 32-8-0 -<u>1-2-8</u> 1-2-8 7-0-13 6-7-1 5-4-3 6-7-1 7-0-13



	9-1-12	16-4-0	23-6-4	32-8-0		
	9-1-12	7-2-4	7-2-4	9-1-12	ı ı	
Plate Offsets (X,Y)	[6:0-5-8,0-3-8], [7:0-6-0,0-4-0], [7:0-1-11,0-	1-8], [10:0-1-14,0-1-8], [13:0-	2-2,0-2-0], [15:0-4-0,0-4-8]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	TC 0.29 BC 0.37	Vert(LL) -0.04 16-43 >	/defl L/d -999 240 -999 180 n/a n/a		GRIP 244/190 FT = 20%

LUMBER-

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

2-0-0 oc purlins (6-0-0 max.): 6-7.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 6-14, 7-12 1 Row at midpt

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8

Max Horz 2=-275(LC 10)

Max Uplift 2=-119(LC 12), 12=-134(LC 13), 10=-46(LC 13) Max Grav 2=1068(LC 19), 12=1288(LC 2), 10=506(LC 1)

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

TOP CHORD 2-3=-1276/235, 3-5=-1205/352, 5-6=-373/176, 6-7=-543/251, 7-9=-294/190,

9-10=-389/69

2-16=-158/1146, 14-16=-91/704, 12-14=-50/516, 10-12=0/291

BOT CHORD 3-16=-442/299, 5-16=-202/757, 6-14=-332/157, 7-14=-75/599, 7-12=-729/75, **WEBS**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 10. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job Truss Truss Type Qty Wellons BB 1398 Extended 143832995 D 25138-25138A COMMON Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:18 2020 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-95xcsqMg85Oy0jKC67HsrgpIDRp_BJaBpTf9UMyD?g? 24-10-8 1-2-8 11-10-0 17-6-2 23-8-0 1-2-8 1-2-8 6-1-14 5-8-2 5-8-2 6-1-14 Scale = 1:57.3 6x6 = 9.00 12 5 4x6 / 4x6 💸 6 1 2x4 2x4 / 10 4x4 🔌 8x8 = 4x4 // 11-10-0 11-10-0 11-10-0 Plate Offsets (X,Y)--[10:0-4-0,0-4-8] CSI. GRIP LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defI L/d **PLATES**

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.09 10-16

-0.18 10-16

8

0.02

>999

>999

n/a

240

180

n/a

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

MT20

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

Weight: 166 lb

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

10.0

0.0

10.0

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=-239(LC 10)

Max Uplift 2=-118(LC 12), 8=-118(LC 13) Max Grav 2=1011(LC 1), 8=1011(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-1200/254, 3-5=-937/240, 5-7=-937/240, 7-8=-1200/254

BOT CHORD 2-10=-160/969, 8-10=-76/917

WFBS 5-10=-130/737, 7-10=-383/247, 3-10=-383/246

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

BC

WB

Matrix-MS

0.22

0.56

0.39

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

1.15

1.15

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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.





Job Truss Truss Type Qty Wellons BB 1398 Extended 143832996 DE 25138-25138A GABLE Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:20 2020 Page 1

84 Components (Dunn),

Dunn, NC - 28334,

ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-5T3MHVOxgifgF1UbEYJKw5uhaEcsfleTGn8GYFyD?fz

24-10-8 1-2-8 23-8-0 11-10-0 11-10-0

Scale = 1:62.1

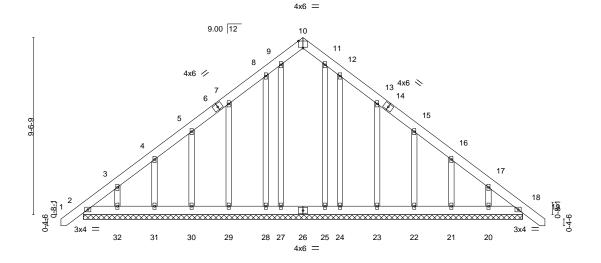


Plate Of	fsets (X,Y)	[10:0-3-0,Edge]										
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	18	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	18	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	014	Matri	x-S						Weight: 217 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 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 23-8-0.

(lb) -Max Horz 2=-239(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 10, 2, 18, 27, 25, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 27, 25, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20 except 10=264(LC 13)

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

NOTES-

TOP CHORD

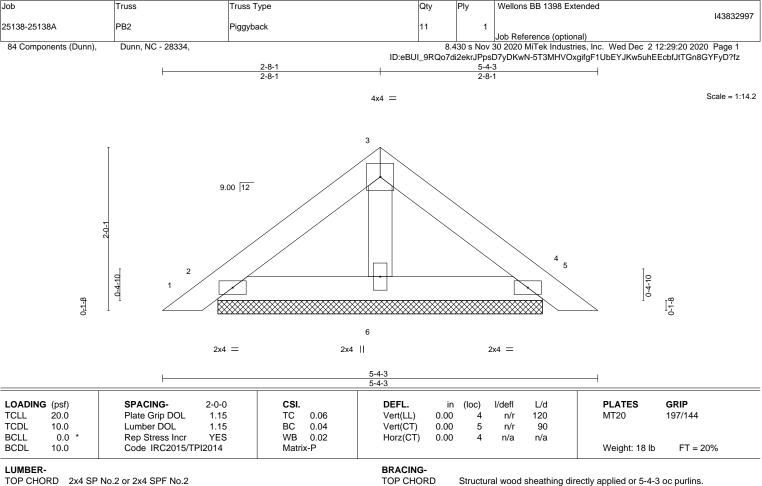
1) Unbalanced roof live loads have been considered for this design.

9-10=-218/268, 10-11=-218/268

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.







BOT CHORD

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

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

2x4 SP No.3 **OTHERS**

REACTIONS.

2=3-11-14, 4=3-11-14, 6=3-11-14 (size) Max Horz 2=45(LC 11)

Max Uplift 2=-30(LC 12), 4=-36(LC 13) Max Grav 2=118(LC 1), 4=118(LC 1), 6=136(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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) n/a
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



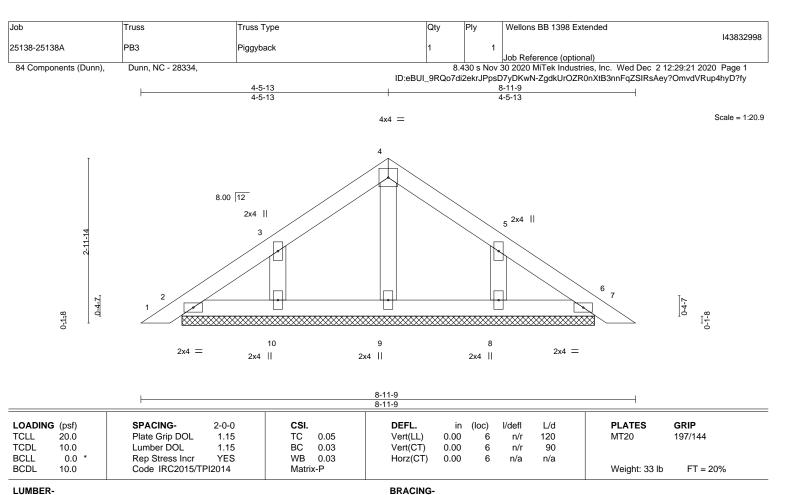


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 7-5-11.

(lb) -Max Horz 2=-70(LC 10)

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

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

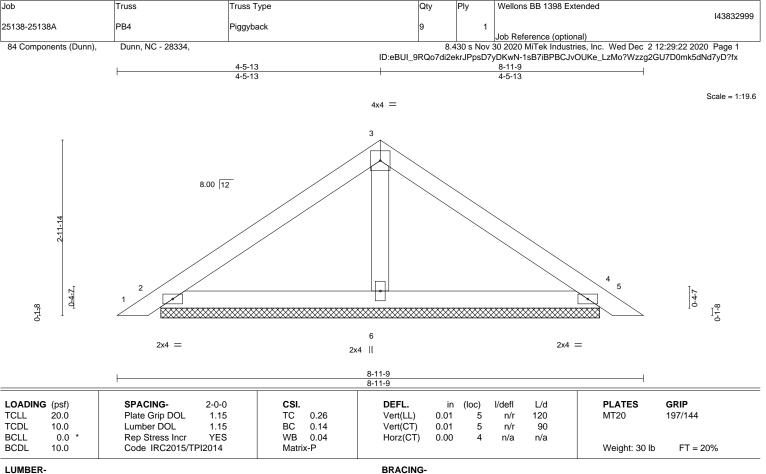
👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD

2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD

2x4 SP No.3 **OTHERS**

REACTIONS. 2=7-5-11, 4=7-5-11, 6=7-5-11 (size)

Max Horz 2=-70(LC 10) Max Uplift 2=-48(LC 12), 4=-57(LC 13)

Max Grav 2=192(LC 1), 4=192(LC 1), 6=271(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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) n/a
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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



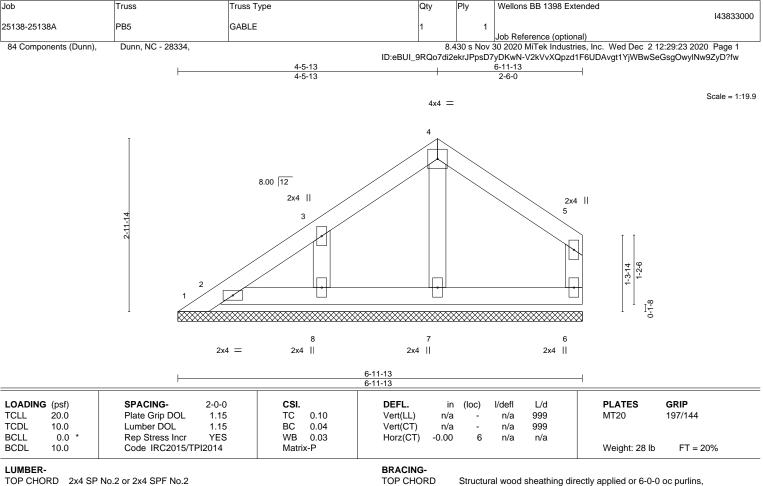
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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

except end verticals.

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

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 **WEBS**

OTHERS 2x4 SP No.3

REACTIONS. All bearings 6-11-13. (lb) -Max Horz 1=74(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 2, 8 Max Grav All reactions 250 lb or less at joint(s) 1, 6, 2, 7, 8

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

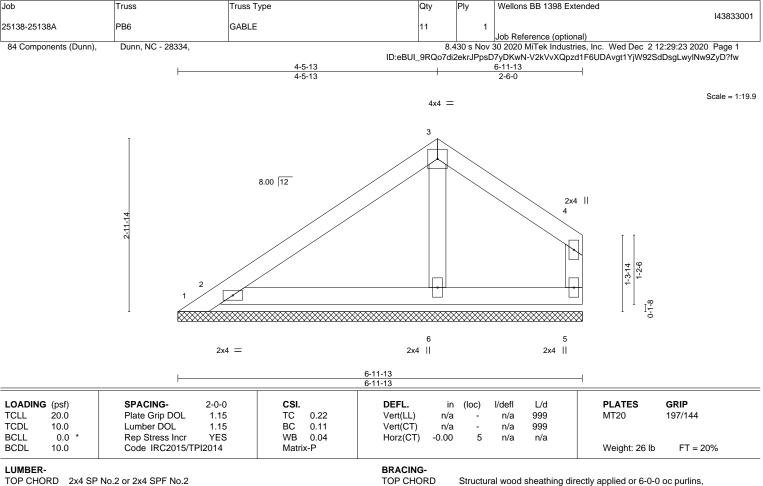
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 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) 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.









BOT CHORD

except end verticals.

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

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 **WEBS**

OTHERS 2x4 SP No.3

All bearings 6-11-13.

REACTIONS. (lb) -Max Horz 1=74(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-215(LC 19), 2=-226(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=408(LC 19)

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 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) except (jt=lb)
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



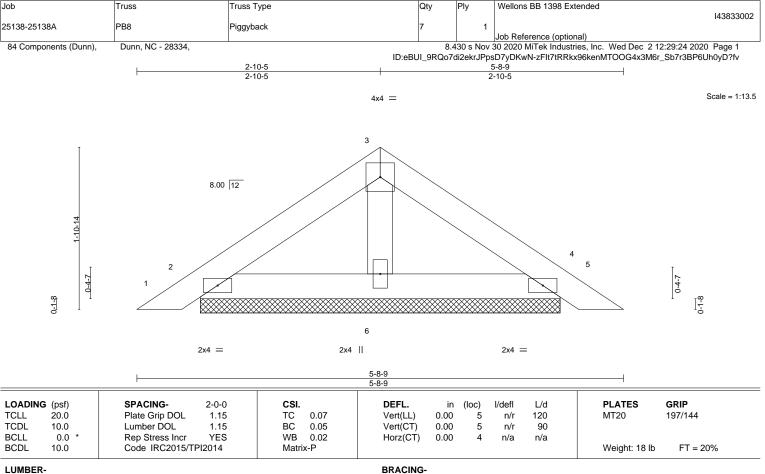
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

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

2x4 SP No.3 **OTHERS**

REACTIONS.

2=4-2-11, 4=4-2-11, 6=4-2-11 (size) Max Horz 2=-43(LC 10) Max Uplift 2=-33(LC 12), 4=-38(LC 13)

Max Grav 2=123(LC 1), 4=123(LC 1), 6=150(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 5-8-9 oc purlins.

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

🗥 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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ANS/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Wellons BB 1398 Extended 143833003 V1 Valley 25138-25138A Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:25 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-RRsFKDS3VEHzLoMY05vVd8bQIFGSKY0DQ3s1DSyD?fu

17-2-8 17-2-8 8.00 12 3x4 /

12 10

3x4 =

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL)	n/a	· -	n/a	999
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT)	n/a	-	n/a	999
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT)	0.00	7	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					

3x4 /

PLATES GRIP 244/190 MT20

Scale = 1:58.8

Weight: 97 lb FT = 20%

LUMBER-

OTHERS

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

2x4 SP No.3 2x4 SP No.3 BRACING-

9

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

except end verticals. **BOT CHORD**

8

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

WEBS 1 Row at midpt 6-7, 5-8

REACTIONS. All bearings 17-2-2.

(lb) -Max Horz 1=427(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 8=-139(LC 12), 9=-115(LC 12), 11=-162(LC 12) Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=504(LC 19), 9=428(LC 19), 11=463(LC 19)

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

TOP CHORD 1-2=-461/382, 2-4=-312/251 WEBS 5-8=-286/193, 2-11=-321/212

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 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, with BCDL = 10.0psf.







Job Truss Truss Type Qty Wellons BB 1398 Extended 143833004 25138-25138A V2 Valley Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:26 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-wdQdYZShGYPqzyxlaoQk9M8dRfdW3zSMfjbamuyD?ft

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

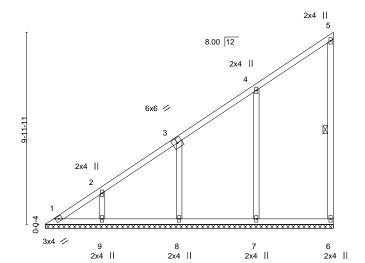
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

14-11-8

Scale = 1:59.7



14-11-8

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S						Weight: 80 lb	FT = 20%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

2x4 SP No.3 TOP CHORD

2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD

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

REACTIONS. All bearings 14-11-2. (lb) -Max Horz 1=369(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 6, 1 except 7=-141(LC 12), 8=-125(LC 12), 9=-108(LC 12) Max Grav All reactions 250 lb or less at joint(s) 6, 1 except 7=512(LC 19), 8=394(LC 19), 9=290(LC 19)

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

TOP CHORD 1-2=-412/334, 2-3=-313/254 WEBS 4-7=-288/194, 3-8=-256/173

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.





Job Truss Truss Type Qty Wellons BB 1398 Extended 143833005 25138-25138A V3 Valley Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:27 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-Op_0lvTK1sXgb6Wx8WxziZhqr3z2oSSVtNL8ILyD?fs

Scale = 1:50.8

12-8-8

2x4 || 2x4 || 8.00 12 3 Ø 2x4 || 2 3x4 / 7 6 5

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	, ,					Weight: 64 lb	FT = 20%

BOT CHORD

WEBS

2x4 II

2x4 II

ł

except end verticals.

1 Row at midpt

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

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

2x4 ||

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3

WEBS OTHERS 2x4 SP No.3

REACTIONS. All bearings 12-8-2.

(lb) -Max Horz 1=311(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-130(LC 12), 7=-148(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=480(LC 19), 7=409(LC 19)

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

TOP CHORD 1-2=-327/280

WEBS 3-6=-271/184, 2-7=-292/193

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.





Job Truss Truss Type Qty Wellons BB 1398 Extended 143833006 V4 Valley 25138-25138A Job Reference (optional)

84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:27 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-Op_0lvTK1sXgb6Wx8WxziZhq53xSoTSVtNL8ILyD?fs

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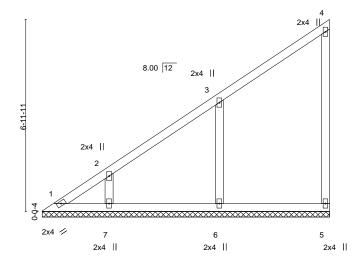
except end verticals.

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

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

10-5-8

Scale = 1:41.8



LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
BCLL 0	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10	0.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 50 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 10-5-2. Max Horz 1=253(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-140(LC 12), 7=-106(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=447(LC 19), 7=269(LC 19)

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

TOP CHORD 1-2=-293/248 WEBS 3-6=-291/198

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.





Job Truss Truss Type Wellons BB 1398 Extended 143833007 Valley 25138-25138A V5 Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:28 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-s0YOyEUyo9fXCF57iDSCFnDysTlJXw6f614hqnyD?fr

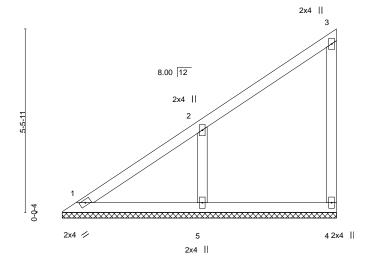
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

8-2-8 8-2-8

Scale = 1:34.4



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/	d PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) n/a - n/a 99	9 MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) n/a - n/a 99	9
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 n/a n/	a
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 37 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 1=8-2-2, 4=8-2-2, 5=8-2-2

Max Horz 1=195(LC 12)

Max Uplift 4=-47(LC 12), 5=-150(LC 12)

Max Grav 1=125(LC 21), 4=124(LC 19), 5=403(LC 19)

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

WEBS 2-5=-316/220

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.





Job Truss Truss Type Qty Wellons BB 1398 Extended 143833008 Valley 25138-25138A V6 Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

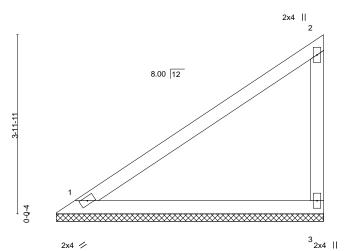
8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:29 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-KC6mAaVaZTnOqPgKFx_Rn_m_ksYtGONoLhqFMDyD?fq

Structural wood sheathing directly applied, except end verticals.

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

5-11-8 5-11-8

Scale = 1:25.5



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) **TCLL** Plate Grip DOL 1.15 0.97 Vert(LL) n/a 999 MT20 244/190 20.0 TC n/a **TCDL** 10.0 Lumber DOL 1.15 ВС 0.61 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 24 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

1=5-11-2, 3=5-11-2 (size) Max Horz 1=137(LC 12) Max Uplift 3=-85(LC 12) Max Grav 1=213(LC 1), 3=227(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.





Job Truss Truss Type Qty Wellons BB 1398 Extended 143833009 V7 Valley 25138-25138A Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:29 2020 Page 1

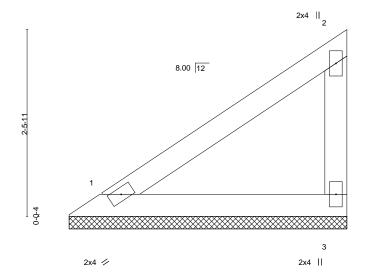
Structural wood sheathing directly applied or 3-8-8 oc purlins,

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

except end verticals.

ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-KC6mAaVaZTnOqPgKFx_Rn_m9JsfSGONoLhqFMDyD?fq 3-8-8

Scale = 1:15.3



LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL)	n/a -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(CT)	n/a -	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS. (size) 1=3-8-2, 3=3-8-2 Max Horz 1=79(LC 12) Max Uplift 3=-49(LC 12)

Max Grav 1=123(LC 1), 3=131(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.





Job Truss Truss Type Wellons BB 1398 Extended 143833010 25138-25138A V8 Valley Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

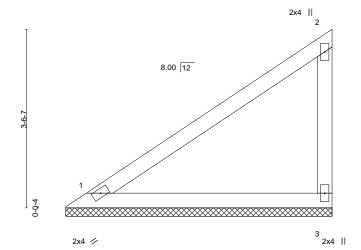
8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:30 2020 Page 1 ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-oOg8NwVCKnvFSZFWpeVgKCIDCGwR?rdyZLZovgyD?fp

Structural wood sheathing directly applied or 5-3-11 oc purlins,

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

except end verticals.

Scale = 1:22.8



LOADIN TCLL TCDL BCLL	G (psf) 20.0 10.0 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.73 BC 0.46 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 244/190
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	11012(01)	0.00	II/a II/a	Weight: 21 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS.

(size) 1=5-3-5, 3=5-3-5 Max Horz 1=121(LC 12) Max Uplift 3=-74(LC 12)

Max Grav 1=187(LC 1), 3=199(LC 19)

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

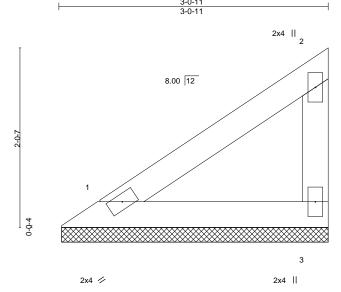
NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.





Job	Truss	Truss Type	Qty	Ply	Wellons BB 1398 Extended				
		71	1	,	14:	3833011			
25138-25138A	V9	Valley	1	1					
		•			Job Reference (optional)				
84 Components (Dunn),	Dunn, NC - 28334,		8.4	30 s Nov 3	30 2020 MiTek Industries, Inc. Wed Dec 2 12:29:30 2020 Pa	age 1			
		ID:e	ID:eBUI_9RQo7di2ekrJPpsD7yDKwN-oOg8NwVCKnvFSZFWpeVgKClMvG0r?rdyZLZovgyD?fp						



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	` -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-P	` ′					Weight: 11 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

(size) 1=3-0-5, 3=3-0-5 Max Horz 1=63(LC 12) Max Uplift 3=-39(LC 12)

Max Grav 1=97(LC 1), 3=103(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.



Structural wood sheathing directly applied or 3-0-11 oc purlins,

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

except end verticals.

Scale = 1:13.1

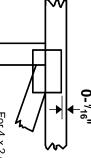


Symbols

PLATE LOCATION AND ORIENTATION



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



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

?

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

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

PLATE SIZE



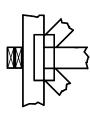
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



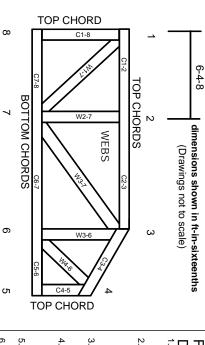
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Guide to Good Practice for Handling **Building Component Safety Information** Design Standard for Bracing. Connected Wood Trusses. Installing & Bracing of Metal Plate Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property

- Damage or Personal Injury

 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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- ω Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. oint and embed fully. Knots and wane at joint

6 5

Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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 alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.