

RE: Wilmington Vault Master Wilmington B Vault Master

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: D.R. HORTON - RAL - 055 Project Name: Wilmington Vault Master Lot/Block: Model: WILMINGTON / B VLT MST

Address: Subdivision: City: FUQUAY-VARINA State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 9 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	147902273	A1V	9/15/2021
2	147902274	A2	9/15/2021
3	147902275	A3	9/15/2021
4	147902276	A3E	9/15/2021
5	147902277	AEV	9/15/2021
6	147902278	AV	9/15/2021
7	147902279	BE	9/15/2021
8	147902280	BGR	9/15/2021
9	147902281	D	9/15/2021

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

based on the parameters provided by 84 Components - #2383.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of North Carolina is December 31, 2021

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



September 15, 2021

Job Truss Truss Type Qty Wilmington B Vault Master 147902273 Wilmington Vault Master A₁V **ROOF TRUSS** Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 14 15:26:57 2021 Page 1

ID:NpT85yB3nXltJasroGEivDyi_fv-9bx4g7b?lmA4BwzmVrDWax7f_P2WhXxyQF1ecbydgXi 20-11-822-11-8 27-10-3 34-8-13 41-11-0 4-8-4 4-4-12 5-11-4 3-11-4 2-0-0 2-0-0 4-10-11 6-10-11 7-2-3

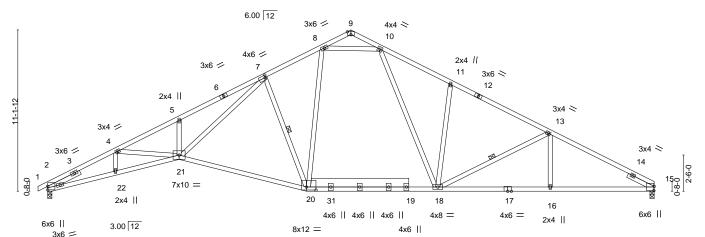
> Scale = 1:79.6 3x6 =

> > Structural wood sheathing directly applied.

7-20, 13-18

Rigid ceiling directly applied.

1 Row at midpt



	4-8-4 ₁ 9-1-0	17-10-8	26-11-8	34-8-13	41-11-0	
	4-8-4 4-4-12	8-9-8	9-1-0	7-9-5	7-2-3	
Plate Offsets (X,Y)	[7:0-0-12,0-2-0], [9:0-3-0,1	Edge], [15:0-3-9,0-0-5], [20:0-8-0,	0-2-8]			
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/TP	2-0-0 CSI. 1.15 TC 0.96 1.15 BC 0.97 YES WB 0.80 12014 Matrix-AS	DEFL. in (Vert(LL) -0.53 20 Vert(CT) -1.10 20 Horz(CT) 0.37		PLATES GRIP MT20 197/14 Weight: 262 lb FT =	20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*

12-15: 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2 *Except*

BOT CHORD 2-21: 2x4 SP DSS, 19-20: 2x8 SP No.2

WEBS 2x4 SP No.3 *Except*

7-21,10-18: 2x4 SP No.2 or 2x4 SPF No.2 SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-0-0

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

Max Horz 2=186(LC 12)

Max Uplift 2=-210(LC 12), 15=-196(LC 13) Max Grav 2=1717(LC 1), 15=1676(LC 1)

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

2-4=-4710/1110, 4-5=-5034/1152, 5-7=-5094/1290, 7-8=-2203/695, 9-10=-253/86, TOP CHORD

10-11=-2392/779, 11-13=-2463/670, 13-15=-2955/719

BOT CHORD 2-22=-931/4184, 21-22=-939/4245, 20-21=-411/2416, 18-20=-228/1809, 16-18=-544/2565,

15-16=-544/2565

WEBS 4-21=0/413, 5-21=-370/239, 7-21=-679/2963, 7-20=-1237/392, 8-20=-183/958, 10-18=-262/832, 11-18=-435/275, 13-18=-528/210, 13-16=0/257, 8-10=-1673/613

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; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



September 15,2021

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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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 Wilmington B Vault Master 147902274 Wilmington Vault Master A2 **ROOF TRUSS** 5 Job Reference (optional) 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 14 15:26:59 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334,

ID:NpT85yB3nXltJasroGEivDyi_fv-5_3r5pcGHNQoQD79dGG_gMC?UCkp9RSFtYWlhTydgXg

27-10-3 20-11-8 22-11-8 7-2-3 7-2-3 6-10-11 4-10-11 2-0-0 2-0-0 4-10-11 6-10-11 6-10-11

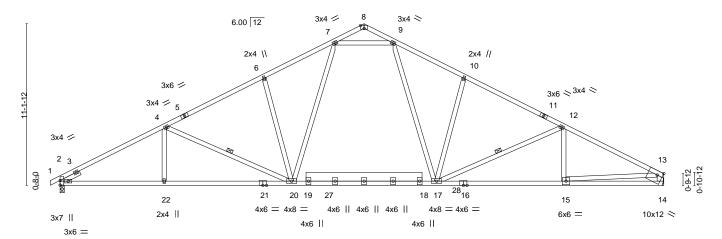
> Scale = 1:79.4 3x6 =

> > Structural wood sheathing directly applied, except end verticals.

4-20, 12-17

Rigid ceiling directly applied.

1 Row at midpt



		7-2-3	15-11	·8 ₁	25-11-8	1	34-8-13	41-7-8	
	ı	7-2-3	8-9-6	;	10-0-0	1	8-9-5	6-10-11	1
Plate Offs	sets (X,Y)	[8:0-3-0,Edge], [14:0-4-6	S,Edge]						
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.9	96 Vert(LL)	-0.41 20-22	>999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.9	98 Vert(CT)	-0.69 20-22	>720 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.8	Horz(CT)	0.12 14	n/a n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix-AS	5			Weight: 266 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

1-5: 2x4 SP No.1

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 18-19: 2x8 SP No.2

WEBS 2x4 SP No.3 *Except* 13-14: 2x6 SP No.2

SLIDER Left 2x4 SP No.3 1-6-0

REACTIONS. (size) 2=0-3-8, 14=Mechanical

Max Horz 2=184(LC 16)

Max Uplift 2=-209(LC 12), 14=-191(LC 13) Max Grav 2=1696(LC 1), 14=1656(LC 1)

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

TOP CHORD 2-4=-2925/704, 4-6=-2380/652, 6-7=-2272/726, 9-10=-2234/719, 10-12=-2351/646,

12-13=-2792/665, 13-14=-1586/417

BOT CHORD 2-22=-553/2528, 20-22=-553/2528, 17-20=-238/1723, 15-17=-520/2418, 14-15=-163/489

WEBS 4-22=0/290, 4-20=-554/211, 6-20=-465/256, 7-20=-212/877, 9-17=-196/810, 10-17=-432/254, 12-17=-478/184, 13-15=-358/1937, 7-9=-1632/618

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; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 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) except (jt=lb) 14=191.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



September 15,2021

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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

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



Job Truss Truss Type Qty Wilmington B Vault Master 147902275 Wilmington Vault Master **A3** Common Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 14 15:27:00 2021 Page 1 ID:NpT85yB3nXltJasroGEivDyi_fv-ZAdDI9du2hYf2NiLA_nDCZlCac44uuwP6CGJDwydgXf 41-7-8 7-2-3 7-2-3 -0-8-0 0-8-0 6-10-11 6-10-11 6-10-11 6-10-11 6-10-11

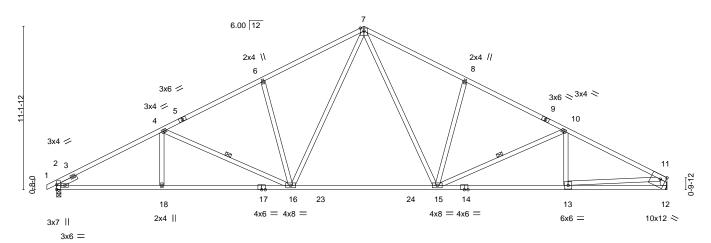


Structural wood sheathing directly applied, except end verticals.

4-16, 10-15

Rigid ceiling directly applied.

1 Row at midpt



	1-2-3	0-9-	-0	10-0-0	0-9-0	0-10-11
Plate Offsets (X,Y)	[12:0-4-6,Edge]					
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/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.81 BC 0.98 WB 0.79 Matrix-AS	DEFL. in Vert(LL) -0.45 1 Vert(CT) -0.73 1 Horz(CT) 0.12		PLATES GRIP MT20 197/144 Weight: 240 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

1-5: 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 *Except*

2-17: 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.3 *Except*

WEBS 11-12: 2x6 SP No.2 SLIDER Left 2x4 SP No.3 1-6-0

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

Max Horz 2=184(LC 16)

Max Uplift 2=-209(LC 12), 12=-191(LC 13) Max Grav 2=1696(LC 1), 12=1656(LC 1)

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

TOP CHORD 2-4=-2920/704, 4-6=-2390/653, 6-7=-2289/745, 7-8=-2256/738, 8-10=-2360/647,

10-11=-2786/665, 11-12=-1583/418

BOT CHORD 2-18=-552/2523, 16-18=-552/2523, 15-16=-190/1589, 13-15=-518/2411, 12-13=-168/515

15-11-8

WEBS 4-18=0/274, 4-16=-533/206, 6-16=-418/270, 7-16=-252/907, 7-15=-238/852,

8-15=-405/268, 10-15=-454/178, 11-13=-352/1905

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; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 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) except (jt=lb)
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Attic room checked for L/360 deflection



September 15,2021

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



Job Truss Truss Type Qty Wilmington B Vault Master 147902276 Wilmington Vault Master A3E **GABLE** Job Reference (optional) 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 14 15:27:03 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:NpT85yB3nXltJasroGEivDyi_fv-_IJMxAfmLcwDvrQws6KwqCNuopJk5PkroAUzqFydgXc -0-8-0 0-8-0 20-11-8 20-8-0

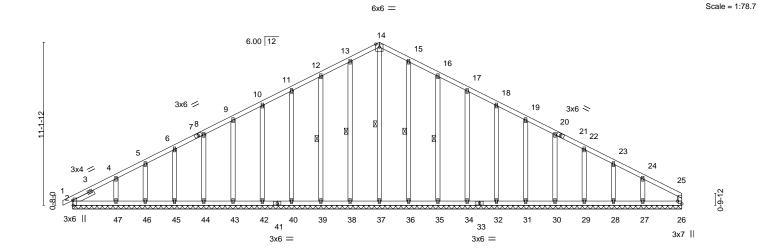


Plate Offsets (X,Y)--[2:0-4-1,Edge], [26:Edge,0-3-8] LOADING (psf) SPACING-CSI DEFL. in (loc) I/defI L/d **PLATES GRIP** TCLL 20.0 Plate Grip DOL 1.15 TC 0.11 Vert(LL) -0.00 120 197/144 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) 0.00 n/r 90 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.01 26 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 301 lb FT = 20%Matrix-S

TOP CHORD

BOT CHORD

WEBS

LUMBER-**BRACING-**

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

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

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

SLIDER Left 2x4 SP No.3 1-7-2

REACTIONS. All bearings 41-7-8.

Max Horz 2=182(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 38, 39, 40, 42, 43, 44, 45, 46, 36, 35, 34, 32, 31, 30, 29,

28 except 47=-110(LC 12), 27=-110(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 26, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34,

32, 31, 30, 29, 28, 27

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

TOP CHORD 11-12=-119/270, 12-13=-137/321, 13-14=-152/362, 14-15=-152/362, 15-16=-137/321,

16-17=-119/270

- 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; end vertical 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.
- 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.



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

14-37, 13-38, 12-39, 15-36, 16-35

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

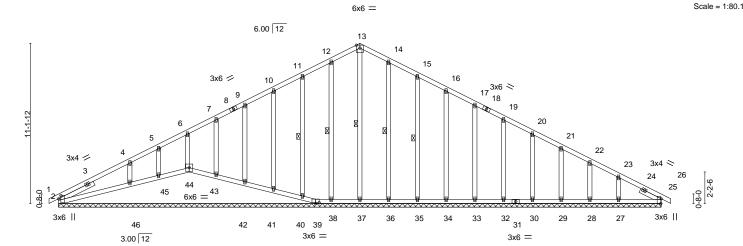
except end verticals.

1 Row at midpt





| ID:NpT85yB3nXltJasroGEivDyi_fv-w8Q6Lsh0tDAx88aJzXNOvdSBad_mZJF8FUz4u7ydgXa | -0-8-0 | 20-11-8 | 41-11-0 | 42-7-0 | 0-8-0 | 20-11-8 | 20-11-8 | 0-8-0



	9-1-0	17-10-8	1	41-11-0	
	9-1-0	8-9-8	1	24-0-8	
Plate Offsets (X	Y) [2:0-2-11,0-1-14], [25:0-4-	-1,Edge], [39:0-3-0,0-0-12]			
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 (0.28 Vert(LL)	0.00 26 n/r 120	MT20 197/144
TCDL 10.0	Lumber DOL	1.15 BC (0.18 Vert(CT)	0.00 26 n/r 90	
BCLL 0.0	* Rep Stress Incr	YES WB ().14 Horz(CT)	0.01 25 n/a n/a	
BCDL 10.0	Code IRC2015/TP	12014 Matrix-S	s l `´		Weight: 292 lb FT = 20%

LUMBER- BRACING-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 80T CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. There 2x4 SP No.3 WEBS 1 Row at midpt 13-37, 12-38, 11-40, 14-36, 15-35

OTHERS 2x4 SP No.3 WEBS
SLIDER Left 2x4 SP No.3 2-8-14, Right 2x4 SP No.3 1-7-2

REACTIONS. All bearings 41-11-0.

(lb) - Max Horz 2=181(LC 12)

 $\text{Max Uplift} \quad \text{All uplift 100 lb or less at joint(s) 2, 44, 39, 38, 40, 41, 42, 43, 45, 36, 35, 34, 33, 32, 30, 29, } \\$

28, 27 except 46=-152(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 44, 39, 25, 37, 38, 40, 41, 42, 43, 45, 36, 35, 34, 33,

32, 30, 29, 28, 27 except 46=378(LC 23)

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

TOP CHORD 10-11=-128/263, 11-12=-146/314, 12-13=-160/355, 13-14=-160/355, 14-15=-146/314,

15-16=-128/263 WEBS 4-46=-272/203

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; end vertical 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.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 39, 40, 41, 42, 43, 45 except (jt=lb) 46=152.
- 10) N/A
- 11) N/A
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 44, 40, 41, 42, 43, 45, 46.



ENGINEERING BY

Job Truss Truss Type Qty Wilmington B Vault Master 147902278 Wilmington Vault Master ΑV **ROOF SPECIAL** 8 Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 14 15:27:08 2021 Page 1

6x6 =

ID:NpT85yB3nXltJasroGEivDyi_fv-Kj6E_ujv98YW?cJuefw5XF4YWqpMmWFaySCkVSydgXX 41-11-0 42-7-0 0-8-0 27-10-3 4-8-4 4-4-12 5-11-4 5-11-4 6-10-11 6-10-11 7-2-3

6.00 12 8 4x6 / 2x4 | 1 3x6 / 9 3x6 ≥ 10 2x4 || 3x4 ≥ 11 3x4 / 3x4 ≥ 3x6 / 12 14 7x10 = 20 18 29 30 17 16 15 4x8 = 6x6 || 4x6 = 5x9 = 2x4 II 6x6 II 3.00 12

		4-8-4 9-1-0		17-10-8	26-11-8	1	34-8-13	41-11-0	
	ı	4-8-4 4-4-12	ı	8-9-8	9-1-0	l	7-9-5	7-2-3	
Plate Offs	sets (X,Y)	[7:0-0-12,0-2-0], [13:0-3-	9,0-0-5], [18:0	-4-8,0-2-6]					
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 0.94	Vert(LL)	-0.49 17-18	>999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.89 17-18	>567 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.36 13	n/a n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix-AS				Weight: 241 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

7-18, 11-17

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

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

1-6,10-14: 2x4 SP No.1

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 2-19: 2x4 SP DSS, 16-18: 2x4 SP No.1

WEBS 2x4 SP No.3 *Except*

7-19,8-17: 2x4 SP No.2 or 2x4 SPF No.2

SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-0-0

REACTIONS. (size) 2=0-3-8, 13=0-3-8

3x6 =

Max Horz 2=181(LC 12)

Max Uplift 2=-210(LC 12), 13=-210(LC 13)

Max Grav 2=1717(LC 1), 13=1717(LC 1)

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

TOP CHORD $2-4=-4712/1098,\ 4-5=-5027/1137,\ 5-7=-5085/1271,\ 7-8=-2151/708,\ 8-9=-2430/801,$

9-11=-2472/670, 11-13=-2946/718

BOT CHORD 2-20=-907/4186, 19-20=-915/4245, 18-19=-392/2364, 17-18=-163/1629, 15-17=-529/2555, 13-15=-529/2555

WEBS 4-19=0/392, 5-19=-369/229, 7-19=-674/3053, 7-18=-1241/430, 8-18=-214/831,

8-17=-306/960, 9-17=-434/284, 11-17=-500/205

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; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Scale = 1:80.1

September 15,2021

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

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

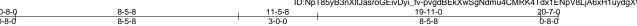
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

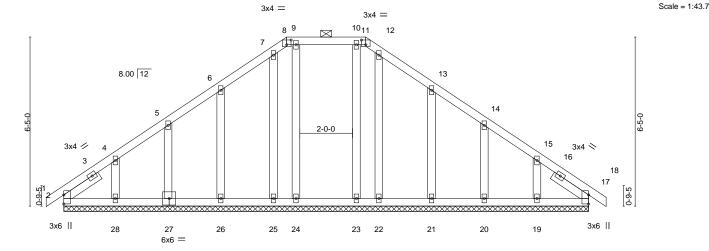




84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 14 15:27:09 2021 Page 1 ID:NpT85yB3nXltJasroGEivDyi_fv-pvgdBEkXwSgNdmu4CMRK4Tdx1ENpV8LjA6xH1uydgXW





19-11-0

Plate Off	sets (X,Y)	[8:0-2-0,0-2-3], [11:0-2-0,0	0-2-3]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	` 17	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.04	Vert(CT)	0.00	17	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	17	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S						Weight: 132 lb	FT = 20%

LUMBER-BRACING-

2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 8-11.

OTHERS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. SLIDER Left 2x4 SP No.3 1-7-8, Right 2x4 SP No.3 1-7-8

REACTIONS. All bearings 19-11-0.

Max Horz 2=-151(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 23, 25, 26, 27, 22, 21, 20, 19, 17 except 28=-103(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 23, 25, 26, 27, 28, 22, 21, 20, 19, 17

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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; end vertical 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, with BCDL = 10.0psf.
- 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.



September 15,2021



Job Truss Truss Type Qty Ply Wilmington B Vault Master 147902280 Wilmington Vault Master **BGR** Common Girder Job Reference (optional) 84 Components (Dunn),

6x6 ||

Dunn, NC - 28334, 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 14 15:27:11 2021 Page 1

ID:NpT85yB3nXltJasroGEivDyi_fv-IIoNcvmnS3x5s32TKnTo9uiEc2zHzvE0eQQO6nydgXU 5-1-13 5-1-13 4-9-11 4-9-11 5-1-13

3 8.00 12 3x7 🥢 3x7 <>

0-9-5 16 17 8 18 20 21 22 6 9 7 6x6 = 3x7 II 4x6 =8x8 =4x6 = 6x6 = 3x7 || 6x6 =

5-1-13 14-9-3 19-11-0 9-11-8 5-1-13 4-9-11

Plate Offsets (X,Y)--[1:0-0-0,0-0-8], [1:0-6-0,0-0-4], [5:0-0-0,0-0-8], [5:0-6-0,0-0-4], [6:0-4-12,0-1-8], [7:0-4-0,0-4-8], [9:0-4-12,0-1-8], [7:0-4-0,0-4-8], [LOADING (psf) SPACING-2-0-0 CSI in (loc) L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.24 Vert(LL) -0.08 7-9 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.43 Vert(CT) -0.167-9 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.69 0.04 5 Horz(CT) n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-MS Weight: 429 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-7: 2x4 SP No.2 or 2x4 SPF No.2

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=164(LC 9)

Max Uplift 1=-990(LC 12), 5=-1006(LC 13)

Max Grav 1=8093(LC 1), 5=8220(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-11406/1477, 2-3=-8042/1115, 3-4=-8042/1115, 4-5=-11389/1475**BOT CHORD** 1-9=-1194/9358, 7-9=-1194/9358, 6-7=-1144/9350, 5-6=-1144/9350

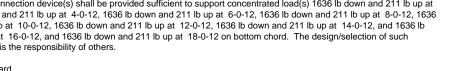
3-7=-1095/8400, 4-7=-3378/545, 4-6=-415/3789, 2-7=-3388/545, 2-9=-417/3817 **WEBS**

NOTES-

1) 3-ply truss to be connected together with 10d (0.120"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 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 7-10; 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; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 7) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1636 lb down and 211 lb up at 2-0-12, 1636 lb down and 211 lb up at 4-0-12, 1636 lb down and 211 lb up at 6-0-12, 1636 lb down and 211 lb up at 8-0-12, 1636 lb down and 211 lb up at 10-0-12, 1636 lb down and 211 lb up at 12-0-12, 1636 lb down and 211 lb up at 14-0-12, and 1636 lb down and 211 lb up at 16-0-12, and 1636 lb down and 211 lb up at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.





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

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

Scale = 1:46.8

September 15,2021

LOAD CASE(S) Standard

Continued on page 2

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

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

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



Job Truss Truss Type Qty Ply Wilmington B Vault Master 147902280 Wilmington Vault Master BGR Common Girder

84 Components (Dunn),

Dunn, NC - 28334,

3 Job Reference (optional) 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 14 15:27:12 2021 Page 2 ID:NpT85yB3nXltJasroGEivDyi_fv-DULlqFmPDN3yUDdftV?1h5FPMSJWiMTAs4AxeDydgXT

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 8=-1636(B) 7=-1636(B) 16=-1636(B) 17=-1636(B) 18=-1636(B) 19=-1636(B) 20=-1636(B) 21=-1636(B) 22=-1636(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Wilmington B Vault Master 147902281 Wilmington Vault Master D Monopitch 10 Job Reference (optional) 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 14 15:27:12 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:NpT85yB3nXltJasroGEivDyi_fv-DULlqFmPDN3yUDdftV?1h5FPsSNniWCAs4AxeDydgXT 4-0-0 0-8-0 4-0-0 Scale = 1:11.9 2x4 || 4.00 12 2 0-5-13 0-3-8 2x4 || 2x4 = 4-0-0 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES** GRIP CSI (loc) I/def 20.0 Plate Grip DOL Vert(LL) -0.01 240 197/144 **TCLL** 1.15 TC 0.21 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) -0.02 >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 IRC2015/TPI2014 Matrix-MP Weight: 15 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 except end verticals.

BOT CHORD

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

2x4 SP No.3 WEBS

REACTIONS.

(size) 2=0-3-8, 4=0-1-8 Max Horz 2=64(LC 11) Max Uplift 2=-52(LC 8), 4=-33(LC 12) Max Grav 2=198(LC 1), 4=151(LC 1)

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; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.



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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth 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



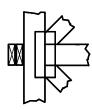
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



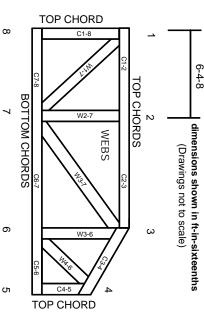
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

Damage or Personal Injury Failure to Follow Could Cause Property

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

ω

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

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

ტ. Ö

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

φ.

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the 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
- 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.