Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483 843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 28687 JOB: 21-5981-R01 JOB NAME: 49786-0217 WOODGROVE Wind Code: 37 Wind Speed: Vult= 115mph Exposure Category: B Mean Roof Height (feet): 17 These truss designs comply with IRC 2015 as well as IRC 2018. 33 Truss Design(s)

Trusses:

J01, M01, M02, M03, R01, R02, R02B, R03, R04, R05, R05B, R06, R07, R08, R09, R10, R10B, R11, R12, R13, R14, R15, VT01, VT02, VT03, VT04, VT05, VT06, VT07, VT08, VT09, VT10, VT11



Warning !--- Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for*





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responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	uss Ir	russ Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY VARINA, NC	
21-5981-R01 M03	3 Ha	alf Hip Girder	1	1	Job Reference (optional)	# 28687

8.430 s Feb 12 2021 MITek Industries, inc. Thu Sep 30 14:52:53 2021 Fage 2 ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-pS5PyN_xpO6vLjqEGLyBcxBdC64TyMIOZJcXMjyYQPu

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-60, 4-5=-60, 2-6=-20 Concentrated Loads (lb) Vert: 4=-1(B) 7=-0(B)



9/28/2021



Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY VARINA, NC	
21-5981-R01	R01	Common Supported Gable	1	1	Job Reference (optional) # 280	687
					8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 30 14:52:	54 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-Hefn9j_ZahEmytPQp3TQ99krTWS7hnLYCzM4uAyYQPt

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard









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	- 1 -
21-5981-R01 R04 COMMON 5 1 Job Reference (optional)	# 28687

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LOAD CASE(S) Standard

21-5981-R01	R04	COMMON	5	1	Job Reference (optional)	# 28687
			ID:FpE5BTYdJ?6c	HHCc4Ha	8.430 s Feb 12 2021 MiTek Industries, Inc a1ZVyvsnR-ecSgCR2iOEs33eINcc3b	Thu Sep 30 14:52:59 2021 P SCRYBX?sM1zHMF3raNy



9/28/2021



Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY VA	ARINA, NC
21-5981-R01	R05	GABLE	1	1	Job Reference (optional)	# 28687
					8.430 s Feb 12 2021 MiTek Industries. Inc.	Thu Sep 30 14:53:01 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-a?aQd74ywr6mlyRmk153xdWw4Kkgqz?apYYyeGyYQPm

16) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
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19) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





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Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY VA	ARINA, NC
21-5981-R01	R05B	Нір	1	1	Job Reference (optional)	# 28687
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Thu Sep 30 14:53:02 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-2B8orS5ah9Edw60yHkcITr300kzMZGlj2CIVAiyYQPI

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Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY V	ARINA, NC
21-5981-R01	R06	Roof Special	5	1	Job Reference (optional)	# 28687
					8,430 s Feb 12 2021 MiTek Industries, Inc.	Thu Sep 30 14:53:03 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-WNiB2o5CSSMUXGb9rS7X02cD78LfliQsGs13j8yYQPk

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LOAD CASE(S) Standard





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Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQU	UAY VARINA, NC
21-5981-R01	R07	Roof Special	4	1	Job Reference (optional)	# 28687
		ID:F	pE5BTYdJ?6	HHCc4H	8.430 s Feb 12 2021 MiTek Industrie a1ZVyvsnR-TmpxTU7S_4cCnZI	es, Inc. Thu Sep 30 14:53:05 2021 Page 2 XzsA?5ThYVx2Omab9kAW9n1yYQP

NOTES- (13-16)

- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY VARINA, NC	
21-5981-R01	R08	Roof Special	1	1	Job Reference (optional)	4 28687
					8,430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 3	0 14:53:06 2021 Page (

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-xyNJgq85lNk3OjKkWahEehEjsLNdV15JzqGjJTyYQPh

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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY VARI	NA, NC
21-5981-R01	R09	COMMON	2	1	Job Reference (optional)	# 28687
					8,430 s Feb 12 2021 MiTek Industries, Inc. Thi	u Sep 30 14:53:07 2021 Page

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-P8xhuA8jWhsw0tvw4HCTAumrPljhEUISBU?GsvyYQPg

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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY V	ARINA, NC
21-5981-R01	R10	COMMON	5	1	Job Reference (optional)	# 28687
					8 430 s Feb 12 2021 MiTek Industries Inc.	Thu Sep 30 14:53:08 2021 Page 3

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-tLV45W9LH??ne1U6e?jij6J1g91_z5ocQ8lqOMyYQPf

10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

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LOAD CASE(S) Standard





Installation guide.

REACTIONS. (Ib/size) 7=1081/0-3-8 (min. 0-1-11), 2=1144/0-3-8 (min. 0-1-13) Max Horz 2=75(LC 18) Max Uplift7=-41(LC 15), 2=-55(LC 14)

Max Grav 7=1454(LC 39), 2=1561(LC 39)

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

TOP CHORD 2-11=-2470/161, 3-11=-2299/176, 3-12=-2097/167, 4-12=-1968/183, 4-5=-1555/174, 5-13=-1961/183, 6-13=-2091/167, 6-14=-2306/179, 7-14=-2476/163

- BOT CHORD 2-10=-93/2056. 10-15=-26/1549. 15-16=-26/1549. 9-16=-26/1549. 8-9=-26/1549. 7-8=-96/2065
- WEBS 6-8=-561/137, 3-10=-552/135, 4-10=-30/703, 5-8=-13/702

NOTES-(11-14)

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=22ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-1-8, Exterior(2E) 3-1-8 to 23-2-4, Corner(3) 23-2-4 to 27-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

Unbalanced snow loads have been considered for this design.
This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
Provide adequate drainage to prevent water ponding.
This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9/28/2021

Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY VA	RINA, NC
21-5981-R01	R10B	Нір	1	1	Job Reference (optional)	# 28687
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Thu Sep 30 14:53:09 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-LX3SJsAz2I7eFB3JCiExGJrC7ZQDiYBlfoUNwoyYQPe

11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

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LOAD CASE(S) Standard





			2	7-4-0						
Plate Offs	ets (X,Y) [6:0-4	-0,0-0-1], [12:0-4-0,0-0-1], [21:0-4-0,	0-1-4]	7-4-0						
LOADING TCLL (roo Snow (Pf) TCDL BCLL BCDL	(psf) f) 20.0 20.0 10.0 0.0 * 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.25 BC 0.25 WB 0.08 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (l -0.00 0.00 0.00	(loc) 1 1 16	l/defl n/r n/r n/a	L/d 180 80 n/a	PLATES MT20 Weight: 140 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHC BOT CHC OTHERS	RD 2x4 SP No.2 RD 2x4 SP No.3 2x4 SP No.3			BRACING- TOP CHORD BOT CHORD	Structur Rigid ce MiTek be ins Install	iral woo eiling o k recon stalled lation o	od shea directly nmends during guide.	athing dire applied or s that Stab truss erect	ctly applied or 6-0-0 oc p 10-0-0 oc bracing. ilizers and required crostion, in accordance with	ourlins. ss bracing Stabilizer

27 / 0

REACTIONS. All bearings 27-4-0.

(lb) - Max Horz 2=59(LC 18)

Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 25, 26, 27, 28, 22, 20, 18, 17 Max Grav All reactions 250 lb or less at joint(s) 16, 26, 27, 19, 18 except 2=289(LC 39), 23=292(LC 44), 24=292(LC 44), 25=292(LC 44), 28=430(LC 39), 22=292(LC 44), 20=292(LC 44), 17=452(LC 39)

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

WEBS 3-28=-334/117, 15-17=-345/137

NOTES-(15-18)

- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=22ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-1-8, Exterior(2N) 3-1-8 to 4-4-0, Corner(3R) 4-4-0 to 12-4-0, Exterior(2N) 12-4-0 to 15-0-0, Corner(3R) 15-0-0 to 23-0-0, Exterior(2N) 23-0-0 to 23-4-0, Corner(3E) 23-4-0 to 27-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY VARI	NA, NC
21-5981-R01	R11	Hip Supported Gable	1	1	Job Reference (optional)	# 28687
					8.430 s Feb 12 2021 MiTek Industries, Inc. The	u Sep 30 14:53:12 2021 Page :

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-l6laxtCrKDVC7enttroetyTuvmZyvxEBLmj1X7yYQPb

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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY V	ARINA, NC
21-5981-R01	R12	Common Supported Gable	1	1	Job Reference (optional)	# 28687
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Thu Sep 30 14:53:13 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-Ellz8DDU5Xd3koM4RYJtQ905sAyVeOVLaQSb3ZyYQPa

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 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

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 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0217 WOODGROVE FUQUAY V	ARINA, NC
21-5981-R01	R15	Common Girder	1	2	Job Reference (optional)	# 28687
					8 430 s Feb 12 2021 MiTek Industries Inc.	Thu Sep 30 14:53:16 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-et_5nFFMOS?ebG5f6gsa2oeSeNrSrbtnGOhFguyYQPX

- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
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- 17) SEE BCSI-B3 SUMMARY SHEET- PERMANEŇŤ RESTRÁING/BRĂCINĞ OF CHORĎS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-60, 4-6=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 10=-1420(B) 11=-1060(B) 12=-1060(B) 13=-1060(B) 14=-1060(B) 15=-1060(B) 16=-1060(B) 17=-1060(B) 18=-1161(B) 19=-1167(B)















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

TOP CHORD 1-2=-295/146

NOTES-(10-13)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-7-7 to 4-7-7, Exterior(2N) 4-7-7 to 13-2-12, Corner(3E) 13-2-12 to 17-2-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7)* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23.
 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
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- MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.
- LOAD CASE Standard parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

9/28/2021



(lb) - Max Horz 1=174(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=525(LC 5), 7=497(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 3-6=-336/137, 2-7=-349/190 WFBS

NOTES-(9-12)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-7-7 to 4-7-7, Exterior(2N) 4-7-7 to 10-6-12, Corner(3E) 10-6-12 to 14-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced

- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.
 LOAD CASE(S) Standard ALUINING ARA

Warning !--Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

9/28/2021



BCDL	10.0				
LUMBER-			BRACING-		
TOP CHORD	2x4 SP No.2	2	TOP CHORD	Structural wood sheathing direct	y applied or 6-0-0 oc purlins, except
BOT CHORD	2x4 SP No.3	3		end verticals.	
WEBS	2x4 SP No.3	3	BOT CHORD	Rigid ceiling directly applied or 1	0-0-0 oc bracing.
OTHERS	2x4 SP No.3	3		MiTek recommends that Stabili be installed during truss erection Installation guide.	zers and required cross bracing n, in accordance with Stabilizer

REACTIONS. All bearings 12-0-8.

(lb) - Max Horz 1=142(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=491(LC 5), 7=326(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WFBS 3-6=-376/172

NOTES-(9-12)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=16ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-7-7 to 4-7-7, Exterior(2N) 4-7-7 to 7-10-12, Corner(3E) 7-10-12 to 11-10-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
- Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced

- standard ANSI/TPL1.
 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
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- 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMEND D MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

MORPHILING 28147 ALUINING ARA VOINE K. MORP

9/28/2021

LOAD CASE(S) Standard



FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WFBS 2-5=-422/179

NOTES-(9-12)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=17ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced

- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.
 LOAD CASE(S) Standard

ALUINING ARA

9/28/2021



FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-276/127

NOTES- (9-12)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=17ft; Cat. II; Exp B; Enclosed; MWFRS

- JTEs-Wind: ASCE 7-16; Yum. (envelope) gable end zone and Complete gable end zone and Complete grip DOL=1.60)
 JTCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate complete grip DOL=0.10 complete grip DOL=0

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9/28/2021



LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.35 BC 0.26 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl L/d n/a - n/a 999 n/a - n/a 999 0.00 n/a n/a	PLATES GRIP MT20 244/190 Weight: 15 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS 2x4 SP No.3		B(RACING- OP CHORD OT CHORD	Structural wood sheathing direct end verticals. Rigid ceiling directly applied or MiTek recommends that Stab be installed during truss erect Installation quide	:tly applied or 4-4-3 oc purlins, except 10-0-0 oc bracing. ilizers and required cross bracing ion, in accordance with Stabilizer

REACTIONS. (lb/size) 1=143/4-4-3 (min. 0-1-8), 3=143/4-4-3 (min. 0-1-8) Max Horz 1=47(LC 14) Max Uplift3=-23(LC 14) Max Grav 1=194(LC 20), 3=194(LC 20)

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

NOTES-(9-12)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- ROFESA 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
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- Annun ARARK MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS

LOAD CASE(S) Standard

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VOINE K. MORP

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