## 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 #: 28510 JOB: 21-5630-R01 JOB NAME: 49786-0202 WOODGROVE Wind Code: 37 Wind Speed: Vult= 115mph Exposure Category: B Mean Roof Height (feet): 23 These truss designs comply with IRC 2015 as well as IRC 2018. 25 Truss Design(s)

Trusses:

M01, M02, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, VT01, VT02, VT03, VT04, VT05, VT06, VT07, VT08



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



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.





Job	Truss	Truss Type	Qty	Ply	49786-0202 WOODGROVE   FUQUAY VARINA, NC	
21-5630-R01	R01	Common Supported Gable	1	1	Job Reference (optional) # 2	8510
					8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Sep 21 14:14	4:25 2021 Page

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-Fz0?MnX0Edvm?aa9lkutS6myFSelBMmmP0HDxNybOpy

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.
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LOAD CASE(S) Standard





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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	Truss	Truss Type	Qty	Ply	49786-0202 WOODGROVE   FUQUAY VARINA, NC	
21-5630-R01	R04	Common	5	1	Job Reference (optional) # 2851	0
					8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Sep 21 14:14:30 20	21 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-cwpuPUa939Y35MT65HT29ATdjTBascPVYI?\_cbybOpt

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Job	Truss	Truss Type	Qty	Ply	49786-0202 WOODGROVE   FUQUAY VARINA, NC	
21-5630-R01	R05	Roof Special Supported Gable	1	1	Job Reference (optional) # 28	8510
					8,430 s Feb 12 2021 MiTek Industries, Inc. Tue Sep 21 14:14	1:32 2021 Page 3

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-YJxeqAcPbnomKfcVDiWWEbY4sHxbKX2o0cU5hTybOpr

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Job	Truss	Truss Type	Qty	Ply	49786-0202 WOODGROVE   FUQUAY V	ARINA, NC
21-5630-R01	R06	Roof Special	7	1	Job Reference (optional)	# 28510
					8,430 s Feb 12 2021 MiTek Industries, Inc.	Tue Sep 21 14:14:34 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-Uh3PFsdg7O2UazmtK7Y\_J0dJv4WHoHr4TwzBIMybOpp

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LOAD CASE(S) Standard



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21-5630-R01	R07	Roof Special	1	1		i	# 28510
					Job Reference (optional) 8.430 s Feb 12 2021 MiTek In	dustries, Inc. Tue Sep 2	1 14:14:36 2021 Page 1
-0-10-8	7-1-5	13-8-0	ID:FpE5BTYdJ?6	dHHCc4Ha 20-3	1ZVyvsnR-Q4A9gXfwf?IC 3-9	CpHwGSYaSPRjdDuD 27-0-8	_GBvNxDSlqEybOpr
0-10-8	7-1-5	6-6-11	2-2-8	4-5	-1	6-8-15	
							Scale: 1/4"=1'
			4x6 =				
T		6.00   12	4	4.5			
			5	(4 <			
		T2 1	1 to W4 to				
	5x8	14	2x4 =	$\langle - \rangle$	15		
		3		$//$ $_{-}$	16 2x4    6		
3-0	/	THE STATES	vvз				
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	12	L WZ		VVC	<u>}</u>	$\sim$	
					W6		Ţ
	Bl	10 <u>B2</u>					7 0
41 Z		5x6 =	<b></b>				
			9	18	8		
3x6 ==	3 00 12	7x	6 =		4x4 =		4x4 =
	0.001.12						+X0
1	6-10-0	13-4-8	. 2	20-3-9		27-0-8	1
Plate Offsets (X Y) [3:0	6-10-0 )-4-0 0-3-0] [7:0-2-13 Edge	<u>6-6-8</u>	6	6-11-1		6-8-15	
LOADING (psf)						DI 4750	
TCLL (roof) 20.0	Plate Grip DOL	1.15 TC 0.91	Vert(LL)	-0.28 8	c) 1/defi L/d -9 >999 240	MT20	244/190
Snow (Pf) 20.0 TCDL 10.0	Lumber DOL	1.15 BC 0.83	Vert(CT)	-0.49 8	-9 >656 180		
BCLL 0.0 *	Code IRC2018/TF	YES WB 0.72 VI2014 Matrix-SH	Horz(CT)	0.21	/ n/a n/a	Weight: 130	lb FT = 20%
			BRACING			0	
TOP CHORD 2x4 SP No	p.1 *Except*		TOP CHORD	Structura	I wood sheathing direct	lly applied.	
T2: 2x4 SI	P No.2 2 *Except*		BOT CHORD	Rigid cei	ling directly applied or 1	0-0-0 oc bracing.	
B1: 2x4 S	P No.1		WEbb	MiTek	recommends that Stabil	izers and required c	ross bracing
WEBS 2x4 SP No W3 <sup>-</sup> 2x4 S	D.3 *Except* SP SS			be insta	alled during truss erection	on, in accordance w	ith Stabilizer
WEDGE				IIIStalla	lion guide.		
Right: 2x4 SP No.3							
REACTIONS. (lb/size)	2=1136/0-3-8 (min. 0-1-8)	, 7=1072/Mechanical					
Max Uplif	t2=-71(LC 14), 7=-55(LC 15	5)					
Max Grav	2=1144(LC 21), 7=1080(LC	C 22)					
FORCES. (lb) - Max. Co	mp./Max. Ten All forces	250 (lb) or less except when shown.					
4-5=-945	195/267, 3-12=-3389/284, 3 5/117, 5-15=-1783/271, 15-	-13=-1312/169, 13-14=-1275/173, 4 16=-1871/262, 6-16=-1925/256, 6-1	7=-1730/181,				
7-17=-18	373/164		100/1502				
WEBS 3-10=-41	1/1598, 3-9=-1967/232, 6-8	=-496/187, 9-11=-6/541, 4-11=-7/56	2, 5-8=-145/796,				
5-11=-47	70/97						
<b>NOTES-</b> (12-15)		for this desire					
2) Wind: ASCE 7-16; Vul	t=115mph (3-second gust)	l for this design. Vasd=91mph; TCDL=5.0psf; BCDL	=5.0psf; h=23ft; Ca	at. II; Exp	B; Enclosed; MWFRS		
(envelope) gable end 2	zone and C-C Exterior(2E)	-0-10-8 to $3-11-2$ , Interior(1) $3-11-2$	to 8-10-6, Exterior(	2R) 8-10-	6 to 18-5-10, Interior(1)	annihilliff.	
plate grip DOL=1.60						WINNITH CARO	11111
3) TCLL: ASCE 7-16; Pr=	=20.0 psf (roof LL: Lum DO	L=1.15 Plate DOL=1.15); Pf=20.0 p	sf (Lum DOL=1.15	Plate DO	L=1.15); Is=1.0; Rough	OFESSIO	Non
4) Unbalanced snow load	ds have been considered fo	r this design.			inn,	Part My	K
<ol> <li>This truss has been de non-concurrent with ot</li> </ol>	esigned for greater of min ro her live loads	oof live load of 12.0 psf or 2.00 time	s flat roof load of 2	0.0 psf on	overhangs	SEAL	1111
6) This truss has been de	esigned for a 10.0 psf botto	m chord live load nonconcurrent wit	h any other live loa	ids.		28147	
() 1 his truss has been of between the bottom ch	designed for a live load of a hord and any other member	s, with BCDL = 10.0psf.	eas where a rectar	igle 3-6-0	tall by 1-0-0 wide with fit	3. Sa. A	
8) Refer to girder(s) for tr	uss to truss connections.		formatile Dividina		have a state of the second	ARL	AS INTRA
<li>bearing at joint(s) 2 cc bearing surface.</li>	onsiders parallel to grain va	lue using ANSI/TPT1 angle to grain	formula. Building	designer s	should verify capacity of	Mining K. MOR	anne
10) Provide mechanical (	connection (by others) of tru	uss to bearing plate capable of withs	standing 100 lb upli	ift at joint(	s) 2, 7.	0/17/202	21
Walandard What herid	a maccordance with the 20 a parameters and read notes h	efore use. This design is based only upon	parameters shown a	nd is for an	individual building compon	ent to be installed and 1	oaded
Continued on page 2 vertically. Applicability of	design parameters and proper in	acorporation of component is responsibilit	y of building designer	– not truss	designer or truss engineer.	Bracing shown is for la	iteral support
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D'Onofrio Drive, Madison	, WI 53719.		_ 0.0				

Job	Truss	Truss Type	Qty	Ply	49786-0202 WOODGROVE   FUQUAY VARINA, NC	
21-5630-R01	R07	Roof Special	1	1	Job Reference (optional) #	28510
					8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Sep 21 1	4:14:36 2021 Page (

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-Q4A9gXfwf?ICpHwGSYaSPRjdDuD\_GBvNxDSIqEybOpn

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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0202 WOODGROVE   FUQUAY V	ARINA, NC
21-5630-R01	R08	Common	2	1	Job Reference (optional)	# 28510
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Tue Sep 21 14:14:38 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-NTIw5DhAAdYw3a4fZzdwUso\_KisJk6tgOXxPu7ybOpl

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Job	Truss	Truss Type	Qty	Ply	49786-0202 WOODGROVE   FUQUAY V	ARINA, NC
21-5630-R01	R09	Common	3	1	Job Reference (optional)	# 28510
					8,430 s Feb 12 2021 MiTek Industries, Inc.	Tue Sep 21 14:14:40 2021 Page

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-JrQgVviRiEoeluD1hNfOZHtK\_VX8C1qzsrQWz?ybOpj

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21-5630-R01	R10	Common	6	1	Job Reference (optional) # 28510
					8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Sep 21 14:14:41 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-n2\_2jFj3TYwVw2oDE5Ad6UQUyvu4xZl64V93VSybOpi

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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0202 WOODGROVE   FUQUAY VA	RINA, NC
21-5630-R01	R11	Common Supported Gable	1	1	Job Reference (optional)	# 28510
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Tue Sep 21 14:14:43 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-jQ5p8xkJ?9BD9LycMWC5BvV?Yim5PVjPYpeAaKybOpg

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LOAD CASE(S) Standard





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21-5630-R01	R12	Common Supported Gable	1	1	Job Reference (optional)	# 28510
					8,430 s Feb 12 2021 MiTek Industries, Inc.	Tue Sep 21 14:14:45 2021 Page 2

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-fpDZZcmZXmRwOf6?TxFZGKbMOWTMtQAi?77HeDybOpe

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21-5630-R01	R15	Common Girder	1	2	Job Reference (optional)	# 28510
					8 430 s Eeb 12 2021 MiTek Industries Inc.	Tue Sep 21 14:14:50 2021 Page (

ID:FpE5BTYdJ?6dHHCc4Ha1ZVyvsnR-0m1ScKqiMJ3DVQ\_yGUqkzOl4qX2vYX6R9Pr2KQybOpZ

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## 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=-1060(B) 11=-1060(B) 12=-1060(B) 13=-1060(B) 14=-1060(B) 15=-1060(B) 16=-1060(B) 17=-1060(B) 18=-1142(B) 19=-1148(B)















Vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is tor 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.





2x4 🕪

2x4 ||

LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 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 IRC2018/TPI2014	<b>CSI.</b> TC 0.44 BC 0.33 WB 0.00 Matrix-P	<b>DEFL.</b> 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: 16 lb         FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS 2x4 SP No.3			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing direct end verticals. Rigid ceiling directly applied or 1	ly applied or 5-1-0 oc purlins, except 0-0-0 oc bracing.
				MiTek recommends that Stabil be installed during truss erection Installation guide.	izers and required cross bracing on, in accordance with Stabilizer

REACTIONS. (lb/size) 1=162/5-1-0 (min. 0-1-8), 3=162/5-1-0 (min. 0-1-8) Max Horz 1=38(LC 10) Max Uplift1=-10(LC 10), 3=-23(LC 10) Max Grav 1=211(LC 20), 3=211(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=23ft; 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) 1, 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.
- 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.
- 10) 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.
- 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 BČŚI-B3 SUMMĂRY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WĔB MEMBERS FOR ŘECŎMMENDED
- 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



9/17/2021

## LOAD CASE(S) Standard