

Trenco RE: GHWISAR WUA - Garman Homes-Wisteria A & B WUA 818 Soundside Rd Site Information: Edenton, NC 27932 **Project Customer:** Project Name: Lot/Block: Subdivision: Model: Address: City: State: General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.6 Wind Code: ASCE 7-10 Wind Speed: 120 mph Design Method: MWFRS (Directional)/C-C hybrid Wind ASCE 7-10 Roof Load: 40.0 psf Floor Load: N/A psf Mean Roof Height (feet): 25 Exposure Category: B No. Seal# Truss Name Date No. Seal# Truss Name Date 156098783 A01 35 36 37 38 39 40 156098817 P01 123456789111 12 1/11/23 1/11/23 156098784 A02 156098818 P02 156098785 156098819 P03 A03 1/23A04 156098820 P04 156098786 156098821 156098787 P05 156098822 156098788 A06 P06 B01 B02 C01 156098823 156098789 4ĭ V01 156098790 156098824 V02 156098825 43 44 45 46 47 156098791 V03 156098792 Č02 156098826 V04 156098793 156098827 V05 156098794 D01 156098828 V06 13 14 156098829 156098795 V07 156098796 48 156098830 V08 156098797 49 156098831 F201 V09 16 17 18 156098798 F202 50 156098832 V10 F203 F204 156098799 156098833 52 156098800 156098834 19 20 21 22 23 156098801 F205 156098802 156098803 F207 156098804 F208 156098805 156098806 210 25 26 27 28 29 30 31 32 156098807 156098808 K201 156098809 156098810 156098811 204 156098812 156098813 K206 K207 156098814 156098815 L01 34 156098816 1 0 2 The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carolina Structural Systems, LLC. C

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2023.

**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.

Gilbert, Eric

January 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	A01	Attic Supported Gable	1	1	Job Reference (optional)	156098783

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:07 ID:Q6gICtOWer00dGlojWcVMCyokLn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loo	c) l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC	0.46	Vert(LL)	n/a		- n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.53	Vert(CT)	n/a		- n/a	999			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.71	Horz(CT)	0.00	1	7 n/a	n/a			
BCDL	10.0	Code	IRC2015/	TPI2014	Matrix-AS							Weight: 344 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS JOINTS REACTIONS	<ul> <li>2x6 SP No.2</li> <li>2x6 SP No.2 *Exce</li> <li>2x4 SP No.2 *Exce</li> <li>32-8,7-32,32-9:2x4</li> <li>2x4 SP No.3</li> <li>Structural wood she</li> <li>except end vertical</li> <li>(5-2-0 max.): 7-9.</li> <li>Rigid ceiling directh</li> <li>1 Row at midpt</li> <li>1 Brace at Jt(s): 32</li> <li>(size) 1=36-2-0</li> <li>19=36-2:</li> <li>22=36-2:</li> <li>22=36-2:</li> <li>25=36-2:</li> <li>28=36-2:</li> <li>Max Horiz 1=205 (L</li> <li>Max Linlift 1=-81 (J</li> </ul>	pt* 24-23:2x10 SP No pt* 17-15:2x6 SP No.2 SP No.3 eathing directly applies s, and 2-0-0 oc purlins y applied. 24-30, 23-31 0, 17=36-2-0, 18=36-2 -0, 20=36-2-0, 21=36- -0, 26=36-2-0, 21=36- -0, 26=36-2-0, 27=36- -0, 29=36-2-0 C 11) C 10, 17=-90 (I C 11)	TOF 22 2, d, d, WE -0, 2-0, 2-0, 2-0, 2-0,	P CHORD Γ CHORD BS	$\begin{array}{c} 1-2=-138/199, 2-3=\\ 4-5=-98/123, 5-6=-\\ 7-8=-1586/221, 8-6\\ 9-10=-56/222, 10-\\ 12-13=-28/70, 13-\\ 14-15=-129/183, 1\\ 1-29=-134/125, 28\\ 27-28=-135/125, 2\\ 25-26=-135/125, 2\\ 25-26=-135/125, 2\\ 19-20=-135/125, 1\\ 17-18=-134/125\\ 24-30=-857/0, 7-3\\ 9-31=-794/22, 30-3\\ 6-25=-15/209, 5-26\\ 2-29=-129/72, 10-2\\ 11-21=-126/88, 12\\ 13-19=-132/72, 14\\ 8-32=-178/113, 7-5\\ 9-32=-60/1717, 4-2\\ \end{array}$	132/17 112/153 1586 11112 1464/1 5-16=0/- -29=-13 6-27=-11 2-25=-11 0-21=-11 8-19=-11 9793/1 32=-97/9 5126/8 22=-10/2 -20=-13 18=-15 32=-59/1 27=-137/2	'3, 3-4=-113/' 3, 6-7=-56/224 (221, (141, 11-12=- 12, 12, 12, 12, 12, 12, 125, 35/	150, 4, 57/83, 9/133 8/0, 8, /70,	5) / / 6) ( 7) ( 8) 1 9) * 0 5 10) ( 11) F 4 1 11) F 12) 1 F	Il plates a Gable requ Sable stud This truss thord live le This truss on the botte -06-00 tall ceiling dea Provide me bearing pla - 90 lb up pipifit at joir 19, 531 lb to pipifit at joir 19, 531 lb to pipifit at joir 29, 531 lb to pipifit at joir 20, 531 lb to 20, 531 l	re 2x4 ires co s space bad noo has be bom cho by 2-0 any oth d load schanic te capa ift at joi t 26, 3: uplift at t 20, 2: I 42 lb s desig al Resid and ref	MT20 unless othin ntinuous bottom of ad at 2-0-0 oc. en designed for a nconcurrent with een designed for rd in all areas wh 0-00 wide will fit (10.0 psf) on mer al connection (by able of withstandi to 17, 530 lb uplit 5 lb uplift at joint 2; joint 22, 17 lb up 8 lb uplift at joint 27. uplift at joint 27.	rwise indicated hord bearing. 10.0 psf bottom any other live loa a live load of 20. ere a rectangle between the bot BCDL = 10.0ps nber(s). 30-32, 3 others) of truss ng 81 lb uplift at tat joint 21, 44 19, 122 lb uplift; e with the 2015 ions R502.11.1 d ANSI/TPI 1.	ads. .0psf tom sf. 31-32 to joint lb t joint 4 lb at and
FORCES	18=-122 20=-44 ( 22=-531 26=-18 ( 28=-35 ( 18=173 ( 20=158 ( 22=-59 ( 24=1434 26=261 ( 28=168 ( (lb) - Maximum Cor Tension	(LC 12), 19=-28 (LC 1 LC 12), 21=-17 (LC 12 (LC 28), 25=-530 (LC LC 12), 27=-42 (LC 12 LC 12), 29=-30 (LC 12 LC 12), 17=129 (LC 8) (LC 23), 19=177 (LC 2 (LC 27), 21=263 (LC 2 LC 9), 23=1414 (LC 2 (LC 22), 25=-54 (LC (LC 22), 27=160 (LC 1 (LC 22), 29=195 (LC 2 npression/Maximum	2), NO 2), 1) 29), 2) 3), 2) 3), 3), 2), 3), 3), 2), 3), 2), 3), 3), 3), 3), 3), 3), 3), 3), 3), 3	Unbalanced this design. Wind: ASCI Vasd=95mp B=45ft; L=3 MWFRS (di 3-7-6, Interi to 16-11-13 25-3-9 to 30 cantilever le right expose for reaction- DOL=1.60 Truss desig only. For si see Standa or consult q Provide ade	d roof live loads hav E 7-10; Vult=120mp bh; TCDL=6.0psf; B 6ft; eave=5ft; Cat. I rectional) and C-C or (1) 3-7-6 to 11-11 , Interior (1) 16-11- -2-4-15, Interior (1) 3 ft and right expose ed;C-C for members s shown; Lumber D gned for wind loads tuds exposed to win rd Industry Gable E ualified building des equate drainage to p	e been of h (3-sec CDL=6.1 l; Exp B Exterior D-7, Exte 13 to 25 0-4-15 t d; end v s and fou OL=1.60 in the p id (norm nd Deta signer as prevent v	considered fo cond gust) 0psf; h=25ft; ; Enclosed; (2) 0-0 to errior (2) 11-10 -3-9, Exterior o 37-0-8 zono vertical left an cres & MWFF 0 plate grip lane of the tru al to the face ils as applical s per ANSI/TF water ponding	r 0-7 (2) 3; d 8:S Jss ), ble, Pl 1. 3.		4	A MANUTATION	SEA 0363	RO L 22 ILBER ILBER ILBER III.2023	Monutary

Continued on page 2 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 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



January 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	A01	Attic Supported Gable	1	1	Job Reference (optional)	156098783

13) 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.

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

15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:07 ID:Q6gICtOWer00dGlojWcVMCyokLn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	A02	Attic	4	1	Job Reference (optional)	156083414

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Wed Jan 11 15:36:35 ID:i3m2TRNgMLvSvSjSSZme3bynpLJ-xipQZA5XWj\_PAV?xQJbDX769L\_pRWC9b7KvUG4zwO2Q



Scale = 1:69.6

Plate Offsets	ate Offsets (X, Y): [1:0-4-0,0-3-0], [3:0-4-8,0-4-4], [5:0-5-4,0-3-0], [8:Edge,0-3-0], [8:0-4-4,0-6-1], [10:0-7-4,0-1-8], [12:0-2-8,0-2-8], [14:0-2-8,0-2-8], [18:0-4-0,0-2-4]													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00		тс	0.71	Vert(LL)	-0.28	10-12	>718	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.92	Vert(CT)	-0.60	10-12	>333	240			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.95	Horz(CT)	0.51	13	n/a	n/a			
BCDL	10.0	Code	IRC201	5/TPI2014	Matrix-AS		Wind(LL)	0.09	10-12	>999	240	Weight: 335 lb	FT = 20%	
		-	N	DTES					LOAD	CASE(S	) Sta	ndard		
TOP CHORD	2x6 SP No 2		1)	Unbalanced	roof live loads ha	ave heen i	considered fo	r	1) D	ead + Ro	of Live	e (balanced): Lu	mber Increas	e=1 15
BOT CHORD	2x10 SP No 2 *Exce	nt* 11-13·2v10 SP F	1, 220	this design					-1, D	ate Incre	ase=1		mbor moreae	0=1110,
BOT ONORD	14-13-2x4 SP No 2	pt 11 10.2x10 01 L	2)	Wind: ASCF	7-10. Vult=120n	nph (3-sec	cond aust)		U.	niform I (	bads (I	b/ft)		
WEBS	2x4 SP No 3 *Except	t* 3-14 5-12 16-17·2	-/ x4	Vasd=95mph	: TCDL=6.0psf:	BCDL=6.0	Opsf: h=25ft:			Vert: 1-	3=-60.	3-5=-60. 5-9=-6	0. 1-14=-20.	
	SP No.2			B=45ft; L=36	ft; eave=5ft; Cat	II; Exp B	; Enclosed;			12-13=-	30, 12	-21=-20, 16-18=	-30. 17-18=-:	30
SLIDER	Right 2x6 SP No.2	3-2-5		MWFRS (dire	ectional) and C-0	C Exterior	(2) 0-1-12 to		2) D	ead + 0.	75 Roc	of Live (balanced	1) + 0.75 Attic	Floor:
BRACING				3-8-14, Interi	or (1) 3-8-14 to 1	11-10-7, E	xterior (2)		Ĺ	umber In	crease	=1.15, Plate Inc	rease=1.00	
TOP CHORD	Structural wood she	athing directly applie	he	11-10-7 to 16	6-11-7, Interior (1	I) 16-11-7	to 25-3-9,		U	niform Lo	oads (I	b/ft)		
	except	annig anoony appile	, u,	Exterior (2) 2	5-3-9 to 30-6-9,	Interior (1	) 30-6-9 to 37	7-0-8		Vert: 1-	3=-50,	3-5=-50, 5-9=-5	0, 1-14=-20,	
	2-0-0 oc purlins (3-9	-12 max.): 3-5.		zone; cantile	ver left and right	exposed	; end vertical	left		12-13=-	90, 12	-21=-20, 16-18=	-30, 17-18=-3	30
BOT CHORD	Rigid ceiling directly	applied.		and right exp	osed;C-C for me	embers an	d forces &							
WEBS	1 Row at midpt	14-16, 12-17, 6-12		MWFRS for I	reactions shown	; Lumber I	DOL=1.60 pla	ite						
JOINTS	1 Brace at Jt(s): 16,			grip DOL=1.6	50									
	17, 18		3)	Provide adec	luate drainage to	prevent	water ponding	<b>j</b> .						
REACTIONS	All bearings 0-3-8.		4)	This truss ha	s been designed	for a 10.0	) pst bottom							
(lb) -	Max Horiz 1=-193 (L	C 10)	-	chord live loa	a nonconcurren	t with any	other live loa	as.						
	Max Uplift All uplift 1	00 (lb) or less at joir	nt(s) 8 <sup>5)</sup>	on the better	as been designe			psi						
	except 1=	-117 (LC 12)		3-06-00 tall h	1 CHOID III all ale	vill fit boty	a reclarigie	m						
	Max Grav All reactio	ns 250 (lb) or less a	t joint	chord and an	v other member	0 11 11 DEW	veen the boll	5111						
	(s) except	1=413 (LC 23), 8=9	<sup>917</sup> 6)	Ceiling dead	load (10.0 psf) c	on membe	r(s) 16-18 1	7-18						
	(LC 19), 1	3=1003 (LC 19),	7)	Provide mec	hanical connecti	on (by oth	ers) of truss t	0					111	
	14=1194 (	(LC 18)	.,	bearing plate	capable of with	standing 1	00 lb uplift at					11111	A. D. 1111	
FORCES	(lb) - Max. Comp./Ma	ax. Ten All forces	250	joint(s) 8 exc	ept (jt=lb) 1=116							"THU	ARQ''	
	(lb) or less except whether the second s	hen shown.	8)	This truss is	designed in acco	ordance w	ith the 2015				1	A	Sid-In	11
TOP CHORD	1-25=-484/226, 2-25	=-451/249,		International	Residential Cod	e sections	s R502.11.1 a	nd		/	52	FES	YANY L	01
	2-26=-234/267, 3-26	=-228/308,		R802.10.2 ar	nd referenced sta	andard AN	ISI/TPI 1.			4			-	1
	3-27=-2090/40, 27-2	8=-2090/40,	9)	Load case(s)	1, 2 has/have b	een modif	fied. Building			-	2 12	:4		
	4-20=-2090/40, 4-29	=-2090/40, 02000/40		designer mus	st review loads to	o verify the	at they are			-		SEA		
	29-30=-2090/40, 3-3 5-6284/308 6-31-	-1112/114		correct for the	e intended use c	of this trus	S.			=		0000		8 E -
	7-31=-1126/92 7-8=	-375/36	10	) This truss de	sign requires the	at a minim	um of 7/16"					0363	522	
BOT CHORD	1-15=-94/274, 14-15	=-94/274, 11-12=0/2	791.	structural WO	ou sneathing be	applied d	nectly to the t	up (to		-	- Q	<b>N</b> .		2
	10-11=0/791. 8-10=0	)/791	,	the bettom of	∠ gypsum sheet	поск ре а	philea airecti)	10			1	·	- · · ·	2
WEBS	2-15=0/305, 2-14=-3	82/125, 14-16=-924	/0, 11	) Graphical pu	iuiu. rlin renresentatio	n does n	nt denict the s	ize			2.0	S. SNGIN	FER	15
	3-16=-832/0, 12-17=	-735/0, 5-17=-638/0	), 11	or the orients	ation of the purlin	along the	ton and/or	120			1	2/0	- Fr	N
	6-10=0/1159, 6-12=-	1095/0, 3-18=0/229	4,	bottom chord		along the						A C	HLB	
	5-18=0/2050		12	) Attic room ch	ecked for L/360	deflection	I.					11111	in the second	

January 11,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	A03	ATTIC	1	3	Job Reference (optional)	156083415

Continued on page 2

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Wed Jan 11 15:38:07 ID:2wH8oAu3ttTbO1GCOCIOKgynnxa-FPNCtdCEr\_aLCe1codFoGXwwq3Fe3rP8HeBMVlzwO1\_

Page: 1



# A MITEK Affilia 818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	A03	ATTIC	1	3	Job Reference (optional)	156083415

Vert: 1-3=-117, 3-5=-117, 5-9=-117, 1-14=-47, 12-13=-210 (F=-163), 12-21=-47, 16-18=-70, 17-18=-70 Concentrated Loads (lb)

Vert: 3=-521 (F), 12=-208 (F)

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Wed Jan 11 15:38:07 ID:2wH8oAu3ttTbO1GCOCIOKgynnxa-FPNCtdCEr\_aLCe1codFoGXwwq3Fe3rP8HeBMVIzwO1\_ Page: 2



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	A04	Attic Girder	1	2	Job Reference (optional)	156098786

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:12

Carolina Structu	ral Systems (Star, NC)), E	ther, NC - 27247,			Run: 8.63 S Nov 19 ID:uTrOKiRzcmXJZK	2022 Print: 8.630 S N h4Kr1k8nyn9ae-RfC	Nov 19 202 ?PsB70Hq	2 MiTek Industrie 3NSgPqnL8w3ul	s, Inc. Wed TXbGKWrC	Jan 11 15:35:12 Doi7J4zJC?f	Page: 1	
	6-	4-8	11-9-7		18-7-0	25-4-9		30-6-9		36-2-0	37-0-8	
	6-	-4-8	5-4-15		6-9-9	6-9-9		5-2-0		5-7-7	0-10-8	
				6x8=	2x4	ш	6x8	3=				
- <b>-</b>				3 25			26	5 ♠				
					13	0	<u> </u>					
		12	<b>\$</b>	16	18		17					
		10	\$/	2×4=	6x8	=	2x4	= 🔶	AVE			
<del>.</del>		4x5							4x5 <b>\</b>			
3-13 )-2-1			·			4				4	د5 <b>ي</b>	
10-0			$\langle \rangle$			8-2				4x5.		
	A									7		
										I A A A A A A A A A A A A A A A A A A A		
	~							4		~	8	<u>6</u> ⊥
	<sup>4</sup> <sup>⊥</sup> 1	Ŀ			ŧ.				Ŀ			
0 0	٥ 5×8	15		14 1	3	27	12	11	10		⊠ -5	
	5.0 %	3х6 и	1	0x12= 6	5x8=		12	2x12= 6x8=	3х6 и		8x8=	
	5x6 %										5x12 II	
	6-	-4-8	11-11-4		25-2-	12		30-6-9		36-2-0		
Scale = 1:69.6	6-	-4-8	5-6-12		13-3-	8		5-3-13		5-7-7		
Plate Offsets (	X, Y): [1:0-4-0,0-3-0],	[3:0-4-0,0-2-12], [5	5:0-4-8,0-2-12], [	8:Edge,0-3	3-8], [8:0-4-4,0-6-1], [	12:0-3-8,0-8-0], [1	4:0-3-8,0	-7-12], [18:0-4-(	0,0-2-12]			
Loading	(psf)	Spacing	4-8-0		CSI	DEFL	in	(loc) l/defl	L/d PI	LATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC C	0.77 Vert(LL)	-0.24	12-14 >999	360 M	T20	244/190	
BCLL	0.0*	Rep Stress Incr	NO		WB C	0.85 Horz(CT)	-0.38 0.06	12-14 >999 8 n/a	240 n/a			
BCDL	10.0	Code	IRC2015/TP	12014	Matrix-MS	Wind(LL)	-0.07	14-15 >999	240 W	eight: 707 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE SLIDER BRACING TOP CHORD BOT CHORD JOINTS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) 2-ply truss (0.131"x3" Top chord	2x6 SP No.2 *Excep 2x10 SP DSS *Exce 2x4 SP No.3 *Excep SP No.2 Left: 2x6 SP No.2 2-0-0 oc purlins (4-2 (Switched from shee Rigid ceiling directly bracing. 1 Brace at Jt(s): 3, 5, 16, 17, 18 (size) 1= Mecha Max Horiz 1=-451 (L Max Grav 1=5139 (I (lb) - Maximum Com Tension 1-2=-7621/0, 2-3=-7 4-5=-8493/0, 5-6=-6 8-9=0/91 1-15=0/5998, 14-15: 10-12=0/4670, 8-10: 2-15=-512/850, 2-14 14-16=0/2759, 3-16: 5-17=0/3078, 16-18: 6-10=-1431/0, 6-12= 4-18=-420/235, 3-18: 5 to be connected toger ) nails as follows: s connected as follows:	et* 3-5:2x6 SP No.1 pt* 11-8:2x10 SP No.1 pt* 11-8:2x10 SP No.1 st* 3-14,5-12,16-17: - 3-2-5 2-15 max.) eted: Spacing > 2-0 applied or 10-0-0 anical, 8=0-3-8 C 6) _C 14), 8=5416 (LC pression/Maximum 054/0, 3-4=-8493/0 980/0, 6-8=-6402/0 =0/5998, 12-14=0/8 =0/4670 4=-1205/361, =0/2898, 12-17=0/2 =87/90, 17-18=-20 =-122/1289, B=0/3983, 5-18=-28 ther with 10d s: 2x6 - 2 rows	2) All ex ex 22x4 pro 3) Ur thi 4) Wi 4) Wi 5) 00. B= 5) Pr 6) Th ch 5) Pr 6) Th ch 7) * T 7) * T 9) Bo ch 5473, 10) Re 11) Th 2937, R8 17/132, 12) Lo 6405 co 13) Ha 575 co 755	loads are cept if note VSE(S) sec voided to d less othem- ibalanced s design. nd: ASCE sid=95mpl 45ft; L=36 WFRS (dirt d vertical I it e grip DC voide adec is truss ha ord live loa his truss h the bottom 06-00 tall b ord and ar alling dead thore to gird is truss is ernational 02.10.2 ar ad case(s) signer mus rrect for th inger(s) or voide suff down at 1 -2-9, and 6 a design(s)	considered equally ap ad as front (F) or back tion. Ply to ply conne istribute only loads no vise indicated. roof live loads have b 7-10; Vult=120mph (; ; TCDL=6.0psf; BCD ft; eave=5ft; Cat. II; E ectional); cantilever le eft and right exposed; bL=1.60 upuate drainage to prev s been designed for a ad nonconcurrent with has been designed for a di nonconcurrent with is been designed for a di live load (40.0 psf) a paid (5.0 psf) applied of er(s) for truss to truss designed in accordan Residential Code sec in tended use of this other connection dev icient to support conc 1-10-7 on top chord, a olaction such cons	poplied to all plies, (B) face in the LC ctions have been oted as (F) or (B), een considered for 3-second gust) L=6.0psf; h=25ft; xp B; Enclosed; ft and right expose; Lumber DOL=1.6 vent water ponding a live load of 20.0 nere a rectangle between the bottor on d additional bottor onther (s). 16-18, 1 nd additional bottor onther on 12-1 connections. ce with the 2015 tions R502.11.1 at d ANSI/TPI 1. nodified. Building fy that they are truss. ice(s) shall be entrated load(s) 6 and 580 lb down at on bottom chord.	25 25 25 25 25 25 25 25 25 25	<ol> <li>Dead + Ro Plate Incre Uniform Lu Vert: 1-: 12-14=- Concentra Vert: 3=</li> <li>Dead + 0. Storage + Plate Incre Uniform Lu Vert: 1-: 12-14=- Concentra Vert: 3=</li> </ol>	bof Live (b base=1.00 bads (lb/ft) 3=-140, 3- 70, 12-21, ted Loads -625 (B), 75 Roof Li 0.75 Attic base=1.00 bads (lb/ft) 3=-117, 3- 210, 12-2; ted Loads -521 (B),	alanced): Lun 5=-140, 5-9= =-47, 16-18=- (lb) 12=-280 (B), 2 ve (balanced) Floor: Lumbe 5=-117, 5-9=- 1=-47, 16-18= (b) 12=-505 (B), 2 H CA SEA 0363	Aber Increase=1.1 140, 1-14=-47, 147, 17-18=-47 17=-164 (B) + 0.75 Uninhab. A r Increase=1.15, 117, 1-14=-47, -47, 17-18=-47 17=-493 (B)	5, Attic
Bottom ch staggered Web conn	ords connected as foll- at 0-9-0 oc. ected as follows: 2x4 -	ows: 2x10 - 2 rows - 1 row at 0-9-0 oc.	res 14) Att LOAD	sponsibility ic room ch CASE(S)	of others. lecked for L/360 defle Standard	ction.				C A. G	ILBERTIN'	

January 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	A05	Attic	3	1	Job Reference (optional)	156098787

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:12 ID:CIIIceywLCiBroW\_x\_TGW7ynpkO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Plate Offsets (X, Y):	[1:0-4-1,Edge], [5:0-4-4,0-3-4], [8:0-4-0,0-4-2], [11:0-6-0,Edge], [12:0-3-8,0-3-8], [14:0-4-0,0-2-4]
-----------------------	---

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.65	Vert(LL)	-0.29	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.42	11-12	>999	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	-0.14	12-13	>999	240	Weight: 315 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 12-11:2x10 SP No.1,
	11-8:2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 3-12,5-11,15-16:2x4
	SP No.2
SLIDER	Right 2x6 SP No.2 1-8-9
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except
	2-0-0 oc purlins (3-2-8 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 14
REACTIONS	(size) 1= Mechanical, 8=0-3-8
	Max Horiz 1=-193 (LC 10)
	Max Grav 1=1983 (LC 22), 8=1999 (LC 23)
FORCES	(Ib) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-2870/0, 2-3=-2500/33, 3-4=-3111/124,
	4-5=-3111/124, 5-6=-2434/33, 6-8=-2394/0,
	8-9=0/34
BOT CHORD	1-13=0/2289, 10-13=0/2289, 8-10=0/1703
WEBS	4-14=-157/115, 2-13=0/265, 2-12=-464/148,
	12-15=0/1013, 3-15=0/1074, 11-16=0/878,
	5-16=0/936, 14-15=-85/84, 14-16=-133/32,
	6-10=-384/52, 6-11=-118/420,
	3-14=-72/1614, 5-14=-73/1659
NOTES	

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-12 to 3-7-14, Interior (1) 3-7-14 to 11-10-7, Exterior (2) 11-10-7 to 16-11-7, Interior (1) 16-11-7 to 25-3-9, Exterior (2) 25-3-9 to 30-6-9, Interior (1) 30-6-9 to 37-0-8 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 14-15, 14-16
   Bottom chord live load (40.0 psf) and additional bottom
- chord dead load (5.0 psf) applied only to room. 11-12
- 9) Refer to girder(s) for truss to truss connections.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  11) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.
- LOAD CASE(S) Standard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	A06	Attic	1	1	Job Reference (optional)	156098788

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:13 ID:CIIIceywLCiBroW\_x\_TGW7ynpkO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Louding	(POI)	opaonig	200	00.				(100)	1/ 0011	L/U	1 EALEO	0.0	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.30	11-12	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.43	11-12	>999	240	MT18HS	244/190	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.07	8	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	-0.14	12-13	>999	240	Weight: 315 lb	FT = 20%	

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 12-11:2x10 SP No.1,
	11-8:2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 3-12,5-11,14-15:2x4
	SP No.2
SLIDER	Right 2x6 SP No.2 1-8-9
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except
	2-0-0 oc purlins (3-2-8 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 16
REACTIONS	(size) 1= Mechanical, 8=0-3-8
	Max Horiz 1=-193 (LC 10)
	Max Grav 1=1987 (LC 22), 8=2000 (LC 23)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-2877/0, 2-3=-2503/33, 3-4=-3112/125,
	4-5=-3112/125, 5-6=-2436/33, 6-8=-2395/0,
	8-9=0/34
BOT CHORD	1-13=0/2294, 10-13=0/2294, 8-10=0/1704
WEBS	2-13=0/265, 2-12=-468/148, 12-14=0/1015,
	3-14=0/1077, 11-15=0/879, 5-15=0/937,
	14-16=-85/85, 15-16=-133/32, 6-10=-385/52,
	6-11=-118/422, 4-16=-157/115,
	3-16=-72/1614, 5-16=-74/1659
NOTES	

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-12 to 3-8-2, Interior (1) 3-8-2 to 11-10-7, Exterior (2) 11-10-7 to 16-11-13, Interior (1) 16-11-13 to 25-3-9, Exterior (2) 25-3-9 to 30-6-9, Interior (1) 30-6-9 to 37-0-8 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
- Provide adequate drainage to prevent water ponding. 3)
- 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. \* This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 14-16, 15-16 8) Bottom chord live load (40.0 psf) and additional bottom
- chord dead load (5.0 psf) applied only to room. 11-12
- Refer to girder(s) for truss to truss connections. 9)
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.
- LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

Page: 1

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA		
GHWISAR WUA	B01	Attic	4	1	Job Reference (optional)	156098789	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:13 ID:HTMWNfK92Alzi6?INMH1WQyoloq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plata Offecte (V V)	12.0 / 0 0 / 21 15.0 / /			2·0 6 0 Edgol [1/1·0 6	0 = dao1 [10.0 1 0 0 2 1]
	12.0-4-0.0-4-21.10.0-4-4	.0-3-01.17.0-4-4.0-3-01	. 1 1 0.0-4-0.0-4-21. 1 1 3	0.0-0-0.Euuei. 114.0-0	-U.EUUEI. 110.0-4-0.0-2-41

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.62	Vert(LL)	-0.25	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.37	13-14	>999	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	-0.12	14-15	>999	240	Weight: 317 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP DSS *Except* 14-13:2x10 SP No.1
WEBS	2x4 SP No.3 *Except* 5-14.7-13.16-17:2x4
	SP No.2
SLIDER	Left 2x6 SP No.2 1-6-0. Right 2x6 SP No.2
	1-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied
	except
	$2-0-0 \text{ oc purling } (3-4-0 \text{ max }) \cdot 5-7$
BOT CHORD	Rigid ceiling directly applied
JOINTS	1 Brace at .lt(s): 18
DEACTIONS	(cizo) 2-0.2.8 10-0.2.8
REACTIONS	(SiZe) 2=0-3-6, 10=0-3-6
	Max Craw 0 4040 (LC 10)
	Max Grav 2=1948 (LC 22), 10=2008 (LC 23)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/34, 2-4=-2336/0, 4-5=-2332/32,
	5-6=-3011/121, 6-7=-3011/121,
	7-8=-2350/32, 8-10=-2449/0, 10-11=0/34
BOT CHORD	2-15=0/1802, 12-15=0/1866, 10-12=0/1744
WEBS	4-14=-146/358, 14-16=0/845, 5-16=0/903,
	13-17=0/905, 7-17=0/965, 8-13=-146/249,
	16-18=-104/32, 17-18=-104/48,
	6-18=-155/114, 4-15=-325/83, 8-12=-197/83,
	5-18=-71/1623, 7-18=-71/1623
NOTES	

 Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-7-11, Interior (1) 2-7-11 to 10-10-7, Exterior (2) 10-10-7 to 15-10-2, Interior (1) 15-10-2 to 24-3-9, Exterior (2) 24-3-9 to 29-3-4, Interior (1) 29-3-4 to 36-0-8 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 16-18, 17-18
   Bottom chord live load (40.0 psf) and additional bottom
- chord dead load (5.0 psf) applied only to room. 13-14
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Attic room checked for L/360 deflection.





LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA		
GHWISAR WUA	B02	Attic Supported Gable	1	1	Job Reference (optional)	156098790	

Carolina Structural Systems (Star, NC)), Ether, NC - 27247, Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:14 Page: 1 ID:zEnlxwuGPQBQKfLLSDw6cYyom9L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 36-0-8 35-2-0 10-9-7 17-7-0 24-4-9 33-7-0 1-7-0 0-10-8 9-2-7 6-9-9 6-9-9 9-2-7 MT18HS 5x10 = MT18HS 5x10 = 35 8 9 36 10 11 d 34 32 6 12 12 10⊏ 5 13 10-3-13 10-2-11 4x5 🛷 Ø X 4 14 4x6、 з 15 16 -2-13 17 18 x \*\*\*\*\* 30 29 28 27 26 25 24 23 22 21 20 19 4x12 🛚 4x12 🛛 4x5= 8x8= 8x8= 4x5=

24-2-12

13-3-8

#### Scale = 1:68.2 Plate Offsets (X, Y): [8:0-5-0,0-3-0], [10:0-5-0,0-3-0], [24:0-4-0,0-3-8], [25:0-4-0,0-3-8]

10-11-4

7-4-4

3-7-0

3-7-0

								-							-
Loading		(psf)	Spacing	2-0-0	)	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.00		тс	0.67	Vert(LL)	-0.07	24-25	>999	360	MT20	244/190	
TCDL		10.0	Lumber DOL	1.15		BC	0.58	Vert(CT)	-0.11	24-25	>999	240	MT18HS	244/190	
BCLL		0.0*	Rep Stress Incr	YES		WB	0.48	Horz(CT)	0.00	18	n/a	n/a			
BCDL		10.0	Code	IRC2	2015/TPI2014	Matrix-AS		Wind(LL)	0.00	30-31	>999	240	Weight: 337 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x6 SP No 2x6 SP No 2x4 SP No SP No.3 2x4 SP No	o.2 o.2 *Excep o.2 *Excep o.3	ot* 25-24:2x10 SP No ot* 34-9,3-29,20-15:2>	.2 (4	TOP CHORD	2-31=-207/65, 1-2 3-4=-307/82, 4-5 6-7=-257/224, 7-4 9-10=-204/217, 1 11-12=-254/224, 1 13-14=-289/94, 1 15-16=-154/28, 1	2=0/39, 2 =-313/97, 3=-136/17 0-11=-14 12-13=-2 4-15=-27 6-17=0/3	-3=-169/50, 5-6=-308/169 72, 8-9=-204/2 3/176, 98/165, 1/53, 9, 16-18=-212	5, 217, 2/59	5) All 6) All 7) Tru bra 8) Ga 9) Thi	plates ar plates ar ss to be ced agai ble studs s truss h ord live lo	re MT2 re 2x4 fully sl inst late s space as bee pad no	20 plates unless of MT20 unless oth heathed from on- eral movement ( ed at 2-0-0 oc. en designed for a n concurrent with	otherwise indicate erwise indicated. e face or securely i.e. diagonal web 10.0 psf bottom any other live loc	ed. / ).
TOP CHORD	Structural except en (6-0-0 ma	wood she d verticals x.): 8-10.	athing directly applied athing directly applied athenation and 2-0-0 oc purling	d,	BOT CHORD	30-31=-129/171, 28-29=-42/217, 2 26-27=-42/217, 2	29-30=-1 7-28=-42 3-26=-46	29/171, /217, /217, /216		10) * T on 3-0	his truss the botto 6-00 tall	has be m cho by 2-0	een designed for ord in all areas wi 00-00 wide will fit	a live load of 20. here a rectangle between the bott	0psf
BOT CHORD WEBS JOINTS	Rigid ceili 1 Row at 1 Brace a	ng directly midpt t Jt(s): 34	applied. 8-25, 10-24		WEBS	22-23=-42/216, 2 20-21=-42/216, 1 25-32=-726/156, 24-33=-706/148	9-20=-23 8-32=-70 10-33=-6	/210, /67, 18-19=-1 5/149, 86/141	8/86	11) Pro bea	vide me aring plat 25 lb un	chanic chanic te capa	al connection (by able of withstand	<pre>/ BCDL = 10.0ps / others) of truss ing 39 lb uplift at plift at joint 26, 4 l</pre>	ı. to joint lb
REACTIONS	(size) Max Horiz	18=35-2-( 21=35-2-( 24=35-2-( 27=35-2-( 30=35-2-( 31=-211)	0, 19=35-2-0, 20=35- 0, 22=35-2-0, 23=35- 0, 25=35-2-0, 26=35- 0, 28=35-2-0, 29=35- 0, 31=35-2-0 (LC 10) 0, 20, 20, 20, 20, 40, 40, 40, 40, 40, 40, 40, 40, 40, 4	2-0, 2-0, 2-0, 2-0,		32-34=-41/11, 33 7-26=-97/358, 6-2 4-29=-138/78, 3-3 12-22=-105/68, 1 14-20=-144/82, 1 3-29=-43/208, 15	-34=-41/1 27=-102/6 30=-271/2 3-21=-14 5-19=-25 -20=-26/2	11, 9-34=-45/ 65, 5-28=-144 22, 11-23=-92 2/90, 6/10, 200	16, /91, //350,	upl 29, upl 12) Thi Inte R8	ift at join 730 lb u ift at join s truss is ernationa 02.10.2 a	t 27, 48 plift at t 21 an s desig Il Resid and ref	8 lb uplift at joint joint 23, 4 lb upl nd 76 lb uplift at j ned in accordan dential Code sec ferenced standar	28, 77 lb uplift at ft at joint 22, 48 l bint 20. ce with the 2015 tions R502.11.1 a d ANSI/TPI 1.	joint b and
	Max Uplift 18=-25 (LC 12), 20=-76 (LC 12), 21=-48 (LC 12), 22=-4 (LC 12), 23=-730 (LC 28), 26=-775 (LC 29), 27=-4 (LC 12), 28=-48 (LC 12), 29=-77 (LC 12), 31=-39 (LC 8)					<ul> <li>NOTES</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-10; Vult=120mph (3-second gust)</li> </ul>							WITH CA	RO	
FORCES	(lb) - Maxi	18=249 (l 20=135 (l 22=229 (l 24=1325 22), 26=-2 22), 28=1 10), 30=2 26)	LC 27), 19=261 (LC 2 LC 11), 21=163 (LC 1 LC 23), 23=-23 (LC 9 (LC 22), 25=1406 (LC 27 (LC 8), 27=210 (LC 65 (LC 26), 29=147 ( 72 (LC 26), 31=244 ( apression/Maximum	7), ), ), C LC LC	Wasu=35111 B=45ft; L=3 MWFRS (di 2-7-11, Exte 10-10-7 to 1 Corner (3) 2 zone; cantil and right ex MWFRS for grip DOL=1	5ft; eave=2ft; Cat. rectional) and C-C erior (2) 2-7-11 to 14-4-10, Exterior (2 24-3-9 to 27-7-0, E ever left and right ;posed;C-C for me reactions shown; .60	II; Exp B C Corner ( 10-10-7, 1 2) 14-4-11 Exterior (2 exposed mbers ar Lumber 1	(3) -0-10-8 to Corner (3) 0 to 24-3-9, 27-7-0 to 36 ; end vertical d forces & DOL=1.60 pla	5-0-8 left ate		Continue	A CONTRACTOR	OR SEA	L 22	Mannin
	1013011				a) T							· · · · · · · · · · · · · · · · · · ·		<b>a</b> • .	

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), 3) 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.

G January 11,2023

31-7-0

7-4-4

35-2-0

3-7-0

4

# 818 Soundside Road Edenton, NC 27932

# Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	156098790	
GHWISAR WUA	B02	Attic Supported Gable	1	1	Job Reference (optional)		

13) 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.

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

15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:14 ID:zEnlxwuGPQBQKfLLSDw6cYyom9L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	C01	Common Supported Gable	1	1	Job Reference (optional)	156098791

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:15 ID:C5dh5AJtGouADi5efYeBKpynn?d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.1

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	<b>CSI</b> TC BC WB Matrix-MR	0.08 0.09 0.30	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 86 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wo 6-0-0 oc purli Rigid ceiling - bracing. (size) 10 13 16 Max Horiz 16 Max Uplift 10 12 15 Max Grav 10 16 (lb) - Maximu Tension 2-16=-154/10 3-4=-127/166 6-7=-128/168 8-10=-148/10 15-16==83/80 2-13=-298/16 3-15=-169/12 ed roof live load n.	bod shea ins, exid ans, exid =12-5-0 =12-5-0 =-169 (l =-39 (l =-39 (l) =-169 (L =169 (L =169 (L =192 (L m Com 02, 1-2= 5, 4-5=- 3, 7-8=- 00 0, 14-15 0, 14-1	athing directly applied cept end verticals. applied or 10-0-0 oc ), 11=12-5-0, 12=12-5 ), 14=12-5-0, 15=12-5 ) LC 10) C 9), 11=-72 (LC 8), C 12), 14=-39 (LC 12 C 9), 16=-66 (LC 8) C 17), 11=222 (LC 1 C 22), 13=270 (LC 1 C 22), 13=270 (LC 1 C 22), 13=270 (LC 1 C 18) pression/Maximum 0/43, 2-3=-114/98, 199/252, 5-6=-198/25 107/90, 8-9=0/43, =-83/80, 13-14=-83/8 =-142/98, =-141/98, 7-11=-168/ been considered for	2) 1 or 5-0, 3) 5-0, 4) 5) 5) 8), 7) 2), 8) 7), 9) 51, 1( 10, 60 11 128 11 Li	<ul> <li>Wind: ASCE Vasd=95mpl</li> <li>B=45ft; L=24</li> <li>MWFRS (dir</li> <li>2-2-8, Exteria</li> <li>and right exp exposed; C-C</li> <li>reactions shot</li> <li>DOL=1.60</li> <li>Truss design only. For stu- see Standard</li> <li>or consult qu</li> <li>All plates are</li> <li>Gable requirt</li> <li>Truss to be f</li> <li>braced again</li> <li>Gable studs</li> <li>This truss hat</li> <li>chord and are</li> <li>Chord and are</li> <li>Provide med</li> <li>beating plate</li> <li>16, 60 lb upli</li> <li>uplift at joint</li> <li>joint 11.</li> <li>This truss is</li> <li>International</li> <li>R802.10.2 ar</li> </ul>	7-10; Vult=120m n; TCDL=6.0psf; E ft; eave=2ft; Cat. ectional) and C-C or (2) 2-2-8 to 6-2 or (2) 9-2-8 to 13- losed ; end vertica for members and hown; Lumber DOL hed for wind loads ds exposed to win a Industry Gable E alified building de 2x4 MT20 unless as continuous bot ully sheathed from sheathed from sheathed throwend spaced at 2-0-0 o s been designed dn chord in all area by 2-00-00 wide w y other members hanical connection ta joint 10, 39 lt 15, 39 lb uplift at ji designed in accor Residential Code and referenced stat Standard	ph (3-sec 3CDL=6.0 II; Exp B Corner ( -8, Corner 3-8 zone al left and d forces 8 = 1.60 pl: s in the pi nd (norm End Deta signer as s otherwi tom chor n one fac ent (i.e. d ic. for a 10.0 with an iv d for a liv is where ill fit betv n (by oth tanding 6 p uplift at joint 12 a	ond gust) opsf; h=25ft; Enclosed; 3) -0-10-8 to (consection); contilever lef right & MWFRS for ate grip ane of the true ate the face) is as applicable s per ANS/ITP se indicated. d bearing. e or securely iagonal web). D psf bottom other live load e load of 20.0 D psf bottom other live load e load of 20.0 of truss to 6 lb uplift at jc joint 14, 75 lb nd 72 lb uplift ith the 2015 R502.11.1 ar ISI/TPI 1.	t ss , le, 11. ds. psf m opint at				SEA 0363	ROWN ROWN ROWN ROWN ROWN ROWN ROWN ROWN
												11	CAG	ILBE IIII



January 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	C02	Common	1	1	Job Reference (optional)	156098792

Run; 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:15 ID:G\_1MFIVHjPn1X?kX2BPiR\_ynn?O-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC	0.45	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.33	Vert(CT)	-0.06	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015	5/TPI2014	Matrix-MS		Wind(LL)	0.00	7	>999	240	Weight: 80 lb	FT = 20%
LUMBER			5)	Provide mec	hanical connectio	on (by oth	ers) of truss	to					
TOP CHORD	2x4 SP No.2			bearing plate	e capable of withs	standing 2	9 lb uplift at	joint					
BOT CHORD	2x4 SP No.2			8 and 29 lb ι	plift at joint 6.								
WEBS	2x4 SP No.3 *Except* 8-2,6-4:2x4 SP No.2 6) This trues is designed in accordance with the 2015												
BRACING				International	Residential Code	e sections	R502.11.1 a	and					
TOP CHORD	Structural wood she	eathing directly appli	ed or	R802.10.2 a	no referenceo sta	indard AN	151/TPLT.						
	6-0-0 oc purlins, ex	cept end verticals.	LU	DAD CASE(S)	Standard								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 c	C										
	bracing.												
REACTIONS	(size) 6=0-3-8,	8=0-3-8											
	Max Horiz 8=-169 (I	_C 10)											
	Max Uplift 6=-29 (LC	C 12), 8=-29 (LC 12)											
	Max Grav 6=546 (L	C 1), 8=546 (LC 1)											
FORCES	(lb) - Maximum Con	npression/Maximum											
		100 2 4 452/00											
TOP CHORD	1-2=0/43, 2-3=-453	(90, 3-4=-453/90, (412, 4, 6)											
	7-8140/295 6-7-	.82/231											
WEBS	3-7=0/242 2-7=-97	195 4-7=-99/195											
NOTES	01-0/212, 21-01	100, 17 - 00, 100											
1) Unbalance	ed roof live loads have	been considered fo	or										
this desig	n.												1111
2) Wind: AS	CE 7-10; Vult=120mpl	n (3-second gust)										White CA	Dalle
Vasd=95r	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft;							1	athur	10/11/		
B=45ft; L=	=24ft; eave=4ft; Cat. II	Exp B; Enclosed;									1	OVEESS	Nº1
MWFRS (	directional) and C-C E	xterior (2) -0-10-8 to	)							/	Se	10 -	Na 21
2-1-8. Inte	erior (1) 2-1-8 to 6-2-8.	Exterior (2) 6-2-8 to	)								<b>1</b>		

- 9-2-8, Interior (1) 9-2-8 to 13-3-8 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 This truss has been designed for a 10.0 psf bottom 3)
- chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf 4)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Vanannan Televininin and SEAL 036322 GI 11111111 January 11,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	C03	Common Girder	1	3	Job Reference (optional)	156098793

Run; 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:16 ID:sgufB5g3QiY2C9pDs7f\_0xynn?A-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

A. GILB A. GILD

818 Soundside Road Edenton, NC 27932

January 11,2023



Scale = 1:50.4

							_	-		-				
Loading TCLL (roof) TCDL BCLL BCDL LUMBER	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 NO IRC201	5/TPI2014 Unbalanced	CSI TC BC WB Matrix-MS	0.31 0.62 0.88 ve been	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.04 -0.07 0.01 0.00	(loc) 9-10 9-10 7 9-10	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 315 lb	<b>GRIP</b> 244/190 244/190 FT = 20%	
TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 *Excep Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly	t* 11-1,7-5:2x4 SP N athing directly applie zept end verticals. applied or 10-0-0 oc	4) lo.2 d or	this design. Wind: ASCE Vasd=95mpl B=45ft; L=24 MWFRS (dir end vertical I plate grip DC	7-10; Vult=120m h; TCDL=6.0psf; E lft; eave=4ft; Cat. ectional); cantilev left and right expo DL=1.60 MT20 plates upl	ph (3-sed 3CDL=6. II; Exp B er left an sed; Lun	cond gust) Dpsf; h=25ft; ; Enclosed; d right expos iber DOL=1.	ed ; 60						
REACTIONS	bracing. (size) 7=0-3-8, 1 Max Horiz 11=-160 ( Max Grav 7=7061 (L	1=0-3-8 LC 6) .C 14), 11=6818 (LC	3) 6) 15)	This truss ha chord live loa * This truss h	as been designed ad nonconcurrent has been designed	for a 10. with any d for a liv	other live load other live load of 20.	ads. Opsf						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	,	3-06-00 tall by 2-00-00 wide will fit between the bottom										
TOP CHORD	1-2=-6939/0, 2-3=-44 4-5=-5935/0, 5-6=0/4 5-7=-5641/0	804/0, 3-4=-4803/0, 43, 1-11=-6622/0,	8)	This truss is International	This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and									
BOT CHORD	10-11=-44/327, 9-10 7-8=0/405	=0/4920, 8-9=0/4150	D, 9)	Hanger(s) or other connection device(s) shall be										
WEBS	3-9=0/6498, 5-8=0/3 4-9=-1337/0, 2-10=0 1-10=0/4933	982, 2-9=-2588/0, /3492, 4-8=0/1773,		lb down at 3 at 7-3-12, ar down at 11-	-4-8, 1965 lb down nd 1965 lb down a 3-12 on bottom ch	n at 5-3 at 9-3-12 nord. The	-12, 1965 lb ( , and 1969 lb e design/sele	down o ection						
NOTES 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-10 2x4 - 2 rows staggered at 0-4-0 oc, Except member 4-8 2x4 - 2 rows staggered at 0-4-0 oc. All leads are accepted actually applied to all plice				of such conn others. DAD CASE(S) Dead + Rod Plate Increa Uniform Lo Vert: 1-3 Concentrat Vert: 8=- 13=-1610	Standard of Live (balanced) asse=1.00 ads (lb/ft) =-60, 3-5=-60, 5-6 ed Loads (lb) 1616 (B), 10=-433 6 (B), 14=-1617 (E	s the res : Lumber 5=-60, 7- 35 (B), 12 3)	Donsibility of Increase=1. 11=-20 2=-1616 (B),	15,		With him		ORTH CA ORTESS SEA 0363		

2) All loa s are considered 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.

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	D01	Monopitch Structural Gable	1	1	Job Reference (optional)	156098794

6-0-8

-0-10-8

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

#### Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:16 ID:fARI?W30z8WOKRgnnt0nTOyokFm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



F





#### Scale = 1:27.8

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC	0.41	Vert(LL)	-0.07	6-9	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.44	Vert(CT)	-0.14	6-9	>524	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.01	Horz(CT)	0.00	2	n/a	n/a			
BCDL	10.0	Code	IRC2015	/TPI2014	Matrix-AS		Wind(LL)	0.11	6-9	>655	240	Weight: 24 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shee	athing directly applied	6) 7) 8)	Bearing at joi using ANSI/T designer sho Provide mech bearing plate Provide mech	int(s) 5 considers PI 1 angle to gra uld verify capacit nanical connectio at joint(s) 5. nanical connectio	parallel t in formula y of beari n (by othe	o grain value a. Building ng surface. ers) of truss t ers) of truss t	o						

BOT CHORD	Rigid ceili	ng directly applied.
REACTIONS	(size)	2=0-3-8, 5=0-1-8
	Max Horiz	2=63 (LC 11)
	Max Uplift	2=-74 (LC 12), 5=-52 (LC 12)
	Max Grav	2=292 (LC 1), 5=232 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum

	lension
TOP CHORD	1-2=0/17, 2-3=-122/85, 3-4=-63/50,
	4-5=-127/113
BOT CHORD	2-6=-109/101, 5-6=-31/33
WEBS	3-6=-62/28

#### NOTES

- NULES
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 52 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) 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.

LOAD CASE(S) Standard



ENGINEERING BY ERENCEO A MITEk Atfiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	D02	Monopitch	6	1	Job Reference (optional)	156098795

6-0-8

-0-10-8

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

#### Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:16 ID:QjwJgF915bXFHfHKFY9fo4yokFe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



10 1





#### Scale = 1:27.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	4-7	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.05	4-7	>999	240	Weight: 22 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2		<ol> <li>This truss is Internationa R802.10.2 a</li> <li>This truss d structural w</li> </ol>	designed in ac I Residential Co and referenced esign requires t cod sheathing b	cordance wo ode sections standard AN hat a minim be applied di	th the 2015 R502.11.1 a ISI/TPI 1. um of 7/16" rectly to the	and top						

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

 REACTIONS
 (size)
 2=0-3-8, 4=0-1-8

 Max Horiz
 2=98 (LC 12)

 Max Uplift
 2=-61 (LC 12), 4=-65 (LC 12)

 Max Grav
 2=292 (LC 1), 4=232 (LC 1)

 FORCES
 (lb) - Maximum Compression/Maximum

- -----

TOP CHORD 1-2=0/17, 2-3=-174/101, 3-4=-140/101 BOT CHORD 2-4=-150/139

Tension

#### NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2 and 65 lb uplift at joint 4.

structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



ENGINEERING BY A MITEK ATFILIA 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	E01	Monopitch	6	1	Job Reference (optional)	156098796

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:17 ID:yKxDALmOJyq9HL6xA23OpdyokEs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Гс







Scale = 1:24.4

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	<b>CSI</b> TC BC WB Matrix-MR	0.10 0.09 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 -0.01 0.00 0.01	(loc) 4-7 4-7 4 4-7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 13 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wo 3-4-8 oc purl	ood shea	athing directly applie	6) 7) ed or L	<ul> <li>Provide mec bearing plate</li> <li>2 and 33 lb u</li> <li>This truss is International R802.10.2 at</li> <li>OAD CASE(S)</li> </ul>	hanical connect e capable of with plift at joint 4. designed in acc Residential Cound referenced s Standard	tion (by othe hstanding 4 cordance wi de sections standard AN	ers) of truss 5 lb uplift at th the 2015 R502.11.1 a ISI/TPI 1.	to joint and						
BOT CHORD	Rigid ceiling bracing.	directly	applied or 10-0-0 or	0											
REACTIONS	(size) 2= Max Horiz 2= Max Uplift 2= Max Grav 2=	0-3-8, 4 59 (LC -45 (LC 189 (LC	=0-1-8 12) 12), 4=-33 (LC 12) 2 1), 4=122 (LC 1)												
FORCES	(lb) - Maximu Tension	ım Com	pression/Maximum												
TOP CHORD BOT CHORD	1-2=0/17, 2-3 2-4=-89/67	8=-83/57	7, 3-4=-71/59												
		00	(0												

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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.





Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F201	Floor	5	1	Job Reference (optional)	156098797

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:17 ID:HmAUjFAXe60pbT3WWzYo7Qyphbt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff Page: 1



MT18HS 3x10 FP

1.5x3 u



Juan	6 = 1.52.1												
Load TCLL TCDI BCLL BCD	ling - L - L	(psf) 40.0 10.0 0.0 5.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 YES IRC2015/TPI2014	CSI TC BC WB Matrix-S	0.48 0.94 0.39	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.31 0.05	(loc) 15-16 15-16 11	l/defl >891 >647 n/a	L/d 480 360 n/a	PLATES MT18HS MT20 Weight: 86 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%E
LUM TOP BOT WEB OTH BRA TOP BOT	BER CHORD CHORD SS ERS CING CHORD CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) *E No.1(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly	xcept* 17-11:2x4 SF athing directly applie cept end verticals. applied or 10-0-0 0	LOAD CASE(S)	Standard								
REA	CTIONS	bracing, Except: 2-2-0 oc bracing: 14 (size) 11=0-3-8,	-15. 21=0-3-8										
FOR	CES	Max Grav 11=732 (L	.C 1), 21=732 (LC 1)	)									
1010	010	Tension											
ТОР	CHORD	1-21=-31/0, 10-11=- 2-3=-1539/0, 3-5=-2 6-7=-2890/0, 7-8=-2 9-10=-2/0	32/0, 1-2=-2/0, 484/0, 5-6=-2913/0, 482/0, 8-9=-1539/0,										
BOT	CHORD	20-21=0/914, 19-20= 16-18=0/2827, 15-16 13-14=0/2890, 12-13	=0/2137, 18-19=0/28 6=0/2890, 14-15=0/2 3=0/2129, 11-12=0/9	327, 2890, 916									
WEB	S	9-11=-1147/0, 2-21= 2-20=0/814, 8-12=-7 8-13=0/485, 3-19=0/ 5-19=-437/0, 7-14=- 6-15=-309/132, 5-16	-1144/0, 9-12=0/81 67/0, 3-20=-778/0, 452, 7-13=-629/0, 60/206, 5-18=-11/17 =-31/275, 6-16=-29	1, , 2/294						4	AT AL	OR FESS	ROLL
NOT	ES	0.0000002,010	0.1210,010 20	2,20						6		1 12	12.1
1) U th 2) A 3) T 4) F 4) F 1 (	Jnbalance his design All plates a Fhis truss nternation R802.10.2 Recomme 10-00-00 c 0.131" X 3	ed floor live loads have are MT20 plates unless is designed in accorda al Residential Code st and referenced stand nd 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks	been considered for s otherwise indicated ince with the 2015 ections R502.11.1 at ard ANSI/TPI 1. n edge, spaced at h truss with 3-10d to be attached to w	r d. nd alls						THE AVE.		SEA 0363	EER.K

4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



G C. C. Linn

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F202	Floor	3	1	Job Reference (optional)	156098798

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:17 ID:1vu4uM13CKYwC5DaWhFrt\_yphVc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



## Plate Offsets (X, Y): [6:0-1-8,Edge]

•													
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 YES IRC2015/TPI2014	CSI TC BC WB Matrix-S	0.45 0.88 0.22	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.28 0.05	(loc) 16 16 11	l/defl >974 >707 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 85 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E	E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.1(flat) *E No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.2(flat)	xcept* 13-11:2x4 SF	5) CAUTION, LOAD CASE(S	Do not erect trus ) Standard	ss backward	ls.							
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly	athing directly applie cept end verticals. applied or 10-0-0 oc	ed or										
REACTIONS	bracing. (size) 11=0-3-8, Max Grav 11=719 (L	21= Mechanical _C 1), 21=724 (LC 1)	)										
FORCES	(lb) - Maximum Com	pression/Maximum											
TOP CHORD	1-21=-34/0, 10-11=- 2-3=-1508/0, 3-5=-2 6-7=-2798/0, 7-8=-2 9-10=-2/0	32/0, 1-2=0/0, 420/0, 5-6=-2817/0, 420/0, 8-9=-1507/0,											
BOT CHORD	20-21=0/897, 19-20= 17-18=0/2745, 16-17 14-15=0/2798, 12-14	=0/2090, 18-19=0/27 7=0/2798, 15-16=0/2 4=0/2083, 11-12=0/8	745, 2798, 399										
WEBS	9-11=-1126/0, 2-21= 2-20=0/795, 8-12=-7 8-14=0/465, 3-19=0/ 5-19=-415/0, 5-17=- 6-16=-349/174, 5-18	1126/0, 9-12=0/792 '50/0, 3-20=-759/0, '428, 7-14=-592/0, 48/271, 7-15=-66/18 3=-6/16, 6-17=-325/3	77, 136						4	ALL A	OR TH CA	ROUNT	
NOTES									1		· ?`		
<ol> <li>Unbalance this design</li> <li>Defer to give</li> </ol>	ed floor live loads have  rder(e) for trues to true	been considered fo	r						1111		SEA	L	
∠) Keleriogi	ruer(s) for truss to trus	s connections.							-		0.56.5	//	4

 Refer to girder(s) for truss to truss connections.
 This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.
Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

U36322 U36322 A. GILBERING January 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F203	Floor	6	1	Job Reference (optional)	156098799

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:18 ID:pZPgQPtlWQk1lbKeAyoOruypU02-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



1.5x3 u

17-0-0 17-0-0

Scale = 1:32.1

<b>Loading</b> TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 YES IRC2015/TPI2014	CSI TC BC WB Matrix-S	0.48 0.94 0.39	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.31 0.05	(loc) 15-16 15-16 11	l/defl >891 >647 n/a	L/d 480 360 n/a	<b>PLATES</b> MT18HS MT20 Weight: 87 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 1 <sup></sup>	1%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) *E: No.1(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exi Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 14	xcept* 17-11:2x4 SP athing directly applie cept end verticals. applied or 10-0-0 oc -15.	5) Recomme 10-00-00 (0.131" X at their ou 6) CAUTION LOAD CASE(	nd 2x6 strongbacks oc and fastened to e 3") nails. Strongbac ter ends or restrain , Do not erect truss <b>S)</b> Standard	s, on edge each truss cks to be a ed by othe backward	, spaced at with 3-10d attached to w r means. Is.	valls						
REACTIONS	(size) 11=0-3-8, Max Grav 11=732 (L	21=0-3-8 _C 1). 21=737 (LC 1)											
FORCES	(Ib) - Maximum Com	pression/Maximum											
TOP CHORD	l ension 1-21=-34/0, 10-11=-3 2-3=-1539/0, 3-5=-24 6-7=-2890/0, 7-8=-24 9-1022/0	32/0, 1-2=0/0, 484/0, 5-6=-2913/0, 482/0, 8-9=-1539/0,											
BOT CHORD	20-21=0/914, 19-20= 16-18=0/2827, 15-16 13-14=0/2890, 12-13	=0/2137, 18-19=0/28 6=0/2890, 14-15=0/2 3=0/2129, 11-12=0/9	27, 890, 16										
WEBS	9-11=-1147/0, 2-21= 2-20=0/813, 8-12=-7 8-13=0/485, 3-19=0/ 5-19=-437/0, 5-16=- 6-15=-309/132, 5-18	1147/0, 9-12=0/811 767/0, 3-20=-778/0, 7452, 7-13=-629/0, 31/275, 7-14=-60/20 8=-11/17, 6-16=-292/	, 6, 294							- ALL	ORTH CA	ROLINI,	i.
NOTES	0.10 000,102,010								9		lt 1		1
<ol> <li>Unbalance this design</li> <li>All plates a</li> <li>All plates a</li> <li>This truss i Internation R802.10.2</li> </ol>	ed floor live loads have are MT20 plates unless are 3x3 MT20 unless o is designed in accorda al Residential Code se and referenced stand	been considered for s otherwise indicated therwise indicated. ance with the 2015 ections R502.11.1 ar ard ANSI/TPI 1.	r I. nd						THE PROPERTY OF THE PROPERTY O	A A A A A A A A A A A A A A A A A A A	SEA 0363	L 22	WILLING THE

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. 2)
- All plates are 3x3 MT20 unless otherwise indicated. 3)
- 4) This truss is designed in accordance with the 2015
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



GI

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F204	Floor	7	1	Job Reference (optional)	156098800

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:18 ID:7L4907p6rauKyBZPYZfvKdypTzY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1.5x3 =

<u>18-4-0</u> 18-4-0

#### Scale = 1:34.1

Loading TCLL TCDL BCU	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 YES	CSI TC BC WB	0.91 0.96 0.43	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.31 -0.42 0.06	(loc) 16-18 16-18 12	l/defl >707 >512 n/a	L/d 480 360 n/a	PLATES MT18HS MT20	<b>GRIP</b> 244/190 244/190
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S	0.10	11012(01)	0.00	12	n/a	n/a	Weight: 92 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) *E: DSS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)	xcept* 17-12:2x4 SP	6) Recommen 10-00-00 o (0.131" X 3 at their out LOAD CASE(S	nd 2x6 strongbacks c and fastened to e ") nails. Strongbac er ends or restraine ) Standard	s, on edge each truss cks to be ed by othe	e, spaced at s with 3-10d attached to v er means.	valls					
BRACING TOP CHORD	Structural wood she	athing directly applie	d or									
BOT CHORD	Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 16	applied or 10-0-0 oc										
REACTIONS	(size) 12=0-3-8, Max Grav 12=790 (L	22=0-3-8 _C 1), 22=790 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-22=-31/0, 11-12=-2 2-3=-1686/0, 3-5=-2 6-7=-3302/0, 7-8=-3 9-10=-1685/0, 10-11	31/0, 1-2=-2/0, 773/0, 5-6=-3360/0, 302/0, 8-9=-2771/0, =-2/0										
BOT CHORD	21-22=0/991, 20-21= 18-19=0/3186, 16-18 14-15=0/3302, 13-14	=0/2354, 19-20=0/31 8=0/3436, 15-16=0/3 4=0/2338, 12-13=0/9	86, 302, 96									
WEBS	10-12=-1247/0, 2-22 2-21=0/905, 9-13=-8 9-14=0/580, 3-20=0/ 5-20=-528/0, 5-18=0 7-16=-125/185, 5-19 6-16=-436/206	22-1241/0, 10-13=0/8 349/0, 3-21=-870/0, /545, 8-14=-773/0, 0/250, 8-15=-26/246, 9=-28/13, 6-18=-246/3	58,						4	TAN .	ORTH CA	
NOTES											CEA	1 1 2

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

- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) The Fabrication Tolerance at joint 17 = 11%
- 5) This truss is designed in accordance with the 2015
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F205	Floor	3	1	Job Reference (optional)	156098801

3x3 =

-

3-4-12 3-4-12

1-3-0

3x3 🛛

1

3x6 =

1-2-0

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:18 ID:4MMTqg4LLX\_aQAWOeOXIYZypTxw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-4-12

4x6 =

3

5

4x4 =

3x3 II

Scale = 1:23.3

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	0.00	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she 3-4-12 oc purlins, e	eathing directly appliexcept end verticals.	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	с									
REACTIONS	(size) 4= Mecha	anical, 6= Mechanic	al									
	Max Grav 4=138 (Le	C 1), 6=138 (LC 1)										
FORCES	(lb) - Maximum Con Tension	npression/Maximum										
TOP CHORD	1-6=-37/0, 3-4=-146	6/0, 1-2=0/0, 2-3=-44	I/O									
BOT CHORD	5-6=0/122, 4-5=0/0											
WEBS	2-6=-154/0, 2-5=-10	2/0, 3-5=0/99										
NOTES												
1) Refer to g	irder(s) for truss to trus	ss connections.										
2) This truss	is designed in accorda	ance with the 2015										
Internation	nal Residential Code s	ections R502.11.1 a	ind									
R802.10.2	2 and referenced stand	lard ANSI/TPI 1.										

3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F206	Floor	2	1	Job Reference (optional)	156098802

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:19

Page: 1

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,





#### Scale = 1:21

ocale = 1.21													
<b>.oading</b> JCLL ICDL BCLL	(psf) 40.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 YES	CSI TC BC WB	0.22 0.12 0.12	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 7 7-8 5	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20	<b>GRIP</b> 244/190	
3CDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 35 lb	FT = 20%F, 11%E	
.UMBER OP CHORD 3OT CHORD WEBS BRACING	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat)												

TOP CHORD	Structura	I wood sheathing directly applied or
	6-0-0 oc j	purlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	5=0-3-8, 8= Mechanical
	Max Grav	5=260 (LC 1), 8=260 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-8=-32/0	0, 4-5=-259/0, 1-2=0/0, 2-3=-344/0,
	3-4=-151/	/0
BOT CHORD	7-8=0/289	9, 6-7=0/372, 5-6=0/0
WEBS	2-8363	0 2-7-0/72 3-7-36/0 3-6-288/0

WEBS	2-8=-363/0, 2-7=0/72, 3-7=-36/0, 3-6=-288/0
	4-6=0/249

NOTES

1) Refer to girder(s) for truss to truss connections.

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F207	Floor	7	1	Job Reference (optional)	156098803

1-10-0

1.5x3 u

4

WB

Matrix-S

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

1-3-0

0-1-8

1.5x3 u 1.5x3 =

1

1-2-0

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:19 ID:qcO406UExAWZGV4a9dbQ\_1ypTtW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6

Ŷ

0.03

9

n/a n/a

10

3 5 2 16 • 2 15 13 14 12 11 3x6 = 1.5x3 u

YES

IRC2015/TPI2014



Weight: 68 lb

FT = 20%F, 11%E

Page: 1

3x4 =

0.27

Horz(CT)

0-10-8

	L				13-5-8							]
					13-5-8							
Scale = 1:29.3												
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.42	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.14	11-12	>999	360		

BC	D	L		
LU	м	в	E	R

BCLL

LOWIDER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 9=0-3-8, 15=0-3-8
	Max Grav 9=581 (LC 1), 15=576 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-15=-28/0, 8-9=-35/0, 1-2=-2/0, 2-3=-1139/0,
	3-4=-1805/0, 4-5=-1805/0, 5-6=-1721/0,
	6-7=-1148/0, 7-8=0/0
BOT CHORD	14-15=0/712, 13-14=0/1550, 12-13=0/1805,
	11-12=0/1805, 10-11=0/1561, 9-10=0/710
WEBS	7-9=-890/0, 2-15=-892/0, 7-10=0/570,
	2-14=0/555, 6-10=-538/0, 3-14=-536/0,
	6-11=0/287, 3-13=0/466, 4-13=-194/0,

0.0

5.0

Rep Stress Incr

Code

#### NOTES

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

All plates are 3x3 MT20 unless otherwise indicated. 2)

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and 3) R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F208	Floor	1	1	Job Reference (optional)	156098804

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:19 ID:bF3EeIXwwhY0IpN38tTXUZypTfF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:26.2

#### Plate Offsets (X, Y): [10:0-1-8.Edge]

1-2-0

	x, 1): [10:0 1 0,Euge												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.07	9-10	>999	360			
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.02	8	n/a	n/a			
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 54 lb	FT = 20%F, 11%E	
LUMBER TOP CHORD	2x4 SP No.2(flat)												

#### 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **REACTIONS** (size) 8=0-3-1, 13=0-3-8 Max Grav 8=551 (LC 1), 13=557 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-13=-38/0, 7-8=-35/0, 1-2=0/0, 2-3=-1007/0, 3-4=-1329/0, 4-5=-1329/0, 5-6=-1008/0, 6-7=-2/0 BOT CHORD 12-13=0/670, 11-12=0/1329, 10-11=0/1329, 9-10=0/1320, 8-9=0/667 WEBS 6-8=-834/0, 2-13=-840/0, 6-9=0/444, 2-12=0/439. 5-9=-406/0. 3-12=-434/0. 3-11=-52/84, 4-10=-269/123, 5-10=-183/361

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- This truss is designed in accordance with the 2015 2) International Residential Code sections R502 11 1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F209	Floor	11	1	Job Reference (optional)	156098805

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:19 ID: 2xh 2OZMOGhAXUH prj 2oiG pyp Tn E-RfC?Ps B70Hq 3NSgPqn L8w 3u ITXbGKWrCDoi7J4z JC?f



Scale = $1:3$
---------------

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 YES IRC2015	5/TPI2014	<b>CSI</b> TC BC WB Matrix-S	0.76 0.75 0.50	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.41 -0.56 0.07	(loc) 17-18 17-18 13	l/defl >596 >433 n/a	L/d 480 360 n/a	PLATES MT18HS MT20 Weight: 105 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 1	11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.1(flat) *E (flat) 2x4 SP No.2(flat) *E DSS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)	xcept* 8-12:2x4 SP f xcept* 22-13:2x4 SP	5) No.2 , 6) LC	Recommend 10-00-00 cc ; (0.131" X 3") at their outer CAUTION, D DAD CASE(S)	2x6 strongbacks, and fastened to ea nails. Strongback ends or restrainer o not erect truss b Standard	on edge ach truss ks to be d by othe backward	e, spaced at with 3-10d attached to w er means. ds.	/alls						
BRACING TOP CHORD	Structural wood she 5-5-3 oc purlins, ex Bigid ceiling directly	athing directly applie cept end verticals.	d or											
	bracing.		,											
REACTIONS	(size) 13=0-3-8, Max Grav 13=882 (L	_24=0-3-8 _C 1), 24=887 (LC 1)	)											
FORCES	(lb) - Maximum Com	pression/Maximum												
TOP CHORD	1-24=-36/0, 12-13=- 2-3=-1918/0, 3-4=-3 5-6=-4188/0, 6-7=-4 9-103220/0 10-11	31/0, 1-2=0/0, 214/0, 4-5=-4188/0, 188/0, 7-9=-4038/0, 1915/0, 11-122/	0											
BOT CHORD	23-24=0/1110, 21-23 19-20=0/3719, 18-19 16-17=0/3752, 15-16	==1913/0, 11=12==2/ 3=0/2699, 20-21=0/3 9=0/4188, 17-18=0/4 6=0/3752, 14-15=0/2	6 5719, 243, 2692,										11	
WEBS	11-13=-1392/0, 2-24 2-23=0/1052, 10-14= 10-15=0/687, 3-21= 4-21=-645/0, 9-17=0 7-17=-327/0, 7-18=- 9-16=-29/19, 4-20=-	e=-1392/0, 11-14=0/1 =-1011/0, 3-23=-101 0/670, 9-15=-679/0, 0/366, 4-19=0/852, 334/354, 6-18=-156/ 117/46, 5-19=-292/0	1047, 7/0, 74,							Land		ORTH CA	ROLIN	
NOTES	ad floor live loads have	been considered for	r							Ξ		SEA	L	E
this design											. :	0363	22 :	

- this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated. 3)
- 4) This truss is designed in accordance with the 2015
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F210	Floor	1	1	Job Reference (optional)	156098806

Run: 8.63 S. Nov 19 2022 Print: 8.630 S.Nov 19 2022 MiTek Industries. Inc. Wed Jan 11 15:35:20 ID:cG\_DZn0OSHuJt5d7bFIHBCypTjo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



0.37

0.49

0.23

Vert(LL)

Vert(CT)

Horz(CT)

-0.07 12-13

12-13

9

-0.10

0.02

>999

>999

n/a n/a

480

360

MT20

Weight: 62 lb



244/190

FT = 20%F, 11%E

Page: 1

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
Scale = 1:24.8												
				12-2-0								
				12-2-0								

тс

BC

WB

Matrix-S

E	BCDL					

TCLL

TCDI

BCLL

1-2-0

LUIVIDER	
TOP CHORD	2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)

-		_	_	_		
		_		-		-
	21	•	Λ	C-I	IN	C

DRACING		
TOP CHORD	Structura	I wood sheathing directly applied or
	6-0-0 oc	purlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	9= Mechanical, 14=0-3-8

40.0

10.0

0.0

5.0

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.00

1.00

YES

5/0,

IRC2015/TPI2014

	Max Grav 9=524 (LC 1), 14=524 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-14=-32/0, 8-9=-31/0, 1-2=0/0, 2-3=-1005/0
	3-4=-1469/0, 4-5=-1469/0, 5-6=-1469/0,
	6-7=-1000/0, 7-8=0/0
BOT CHORD	13-14=0/640, 12-13=0/1336, 11-12=0/1469,

10-11=0/1340, 9-10=0/639 WEBS 7-9=-801/0, 2-14=-803/0, 7-10=0/470, 2-13=0/475, 6-10=-443/0, 3-13=-432/0, 3-12=0/331, 4-12=-158/0, 5-11=-213/0, 6-11=0/363

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 MT20 unless otherwise indicated. 2)
- Refer to girder(s) for truss to truss connections. 3)
- This truss is designed in accordance with the 2015 4) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	F211	Floor	1	1	Job Reference (optional)	156098807

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:20 ID:5G7tUZe?CGRx75b7eAgUIAypTj\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



0.23

Horz(CT)

0.02

9

n/a n/a



Weight: 62 lb

GRIP

244/190

FT = 20%F, 11%E

Page: 1

					12-2-0						
					12-2-0						
Scale = 1:26.9											
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL	40.0	Plate Grip DOL	1.00	тс	0.37	Vert(LL)	-0.07	12-13	>999	480	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.10	12-13	>999	360	

WB

Matrix-S

BC	D	L		
LU	м	в	E	R

BCLL

1-2-0

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 9= Mechanical, 14=0-3-8
	Max Grav 9=524 (LC 1), 14=519 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-14=-29/0, 8-9=-31/0, 1-2=-2/0,
	2-3=-1004/0, 3-4=-1469/0, 4-5=-1469/0,
	5-6=-1469/0, 6-7=-1000/0, 7-8=0/0
BOT CHORD	13-14=0/639, 12-13=0/1336, 11-12=0/1469,
	10-11=0/1340, 9-10=0/639
WEBS	7-9=-801/0, 2-14=-800/0, 7-10=0/470,
	2-13=0/475, 6-10=-443/0, 3-13=-432/0,
	3-12=0/331. 4-12=-158/0. 5-11=-213/0.

0.0

5.0

Rep Stress Incr

Code

YES

IRC2015/TPI2014

#### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 MT20 unless otherwise indicated. 2)

6-11=0/363

- Refer to girder(s) for truss to truss connections. 3)
- This truss is designed in accordance with the 2015 4) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. CAUTION, Do not erect truss backwards.
- 6)

LOAD CASE(S) Standard

# COLOR WANTER WILLIAM DATE SEAL 036322 G mmm January 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	K201	Floor Supported Gable	1	1	Job Reference (optional)	156098808

Page: 1



Scale = 1:32.1

ocalo = 1.0211													
Loading	(psf)	Spacing	2-0-0	CS	SI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	C 0.	.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	C 0.	.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	W	B 0	03	Horiz(TL)	0.00	16	n/a	n/a		
BCDI	5.0	Code	IRC2015/TPI	014 Ma	atrix-R			0.00				Weight <sup>.</sup> 72 lb	FT = 20%F 11%F
	0.0	0000										Wolght. 72 lb	
LUMBER			3) Tru:	s to be fully s	sheathed from one	e fac	e or securely						
TOP CHORD	2x4 SP No.2(flat)		brad	ed against la	ateral movement (i.	.e. d	iagonal web).						
BOT CHORD	2x4 SP No.2(flat)		4) Gab	le studs spac	ced at 1-4-0 oc.		<b>o</b> ,						
WEBS	2x4 SP No.2(flat)		5) This	truss is desi	igned in accordanc	ce wi	th the 2015						
OTHERS	2x4 SP No 3(flat) *F	Except* 16-31-2x4 SP	Ínte	national Res	sidential Code sect	ions	R502.11.1 an	nd					
0	No.2(flat)		R80	2.10.2 and re	eferenced standard	d AN	ISI/TPI 1.						
BRACING			6) Rec	ommend 2x6	6 strongbacks, on e	edge	, spaced at						
	Structurel wood abo	acthing directly applie	d or <sup>(</sup> 10-0	0-00 oc and	fastened to each t	russ	with 3-10d						
TOP CHORD		eathing unectly applie	(0.1	31" X 3") nail	ls. Strongbacks to	be a	attached to wa	alls					
	Digid coiling directly	applied or 10.0.0 oc	, àt th	eir outer end	ds or restrained by	othe	er means.						
BOTCHORD	bracing	y applied of 10-0-0 oc	7) CAU	JTION, Do no	ot erect truss back	ward	ls.						
DEACTIONS		0 47 47 0 0 40 47		ASE(S) Sta	andard								
REACTIONS	(SIZE) 10=17-0-	0, 17 = 17 - 0 - 0, 18 = 17 - 0, 18 = 17 - 0, 17 - 0, 18 = 17 -	0-0,										
	19=17-0-	0, 20=17-0-0, 21=17-	·0-0,										
	22=17-0-	0, 23=17-0-0, 25=17-	·0-0,										
	20=17-0-	0, 27=17-0-0, 20=17-	·0-0,										
	29=17-0- Max Gray 16-27 (I	(0, 30 = 17 - 0 - 0)											
	10=37 (L	(LC 1), T = 122 (LC 1),											
	10=152 (	(LC I), $19=145$ (LC I)	,										
	20=147 (	(LC I), ZI = 147 (LC I)	,										
	22=147 (	(LC 1), 23=147 (LC 1)	,										
	20=147 (	(LC 1), 20=147 (LC 1)	,										
	27=147 (	(LC 1), 20 = 147 (LC 1)	,										
500050	29=147 (	LC 1), 30=59 (LC 1)											CONTRACT OF A DECISION OF A DECISIONO OF A D
FORCES	(ID) - Maximum Con	npression/iviaximum										11111	1111
			7/0									N'TH CA	Rollin
TOP CHORD	1-30=-55/0, 15-16=	-32/0, 1-2=-1/0, 2-3=-	-770,								15	R	Della !!
	3-4=-7/0, 4-6=-7/0,	0 - 7 = -7/0, 7 - 8 = -7/0, 7 - 8 = -7/0, 7 - 8 = -7/0, 7 - 8 = -7/0, 7 - 10	7/0								22	1 the	Do an
	8-9=-7/0, 9-10=-7/0	7/0 11 15 7/0, 11-12=-	-770,								22	in /	
	12-13=-1/0, 13-14=	-7/0, 14-15=-7/0	0/7							-		:0	K :
BUICHURD	29-30=0/7, 28-29=0	)/1, 21-28=0/1, 20-21:	=0/7,							-		054	1 1 3
	20-20=0/7, 20-20=0	)/7,22-23=0/7,21-22:	=0/7,									SEA	L : I
	20-21=0/7, 19-20=0	)//, 10-19=0//, 1/-10	=0/7,							- E		0363	22
WEDO	10-17=0/7	124/0 4 27 122/0										0505	
WEDS	2-29=-132/0, 3-20=	-134/0, 4-27 = -133/0,										•	1 S - S
	0.20 = 133/0, 7.23 = 0.22 = 122/0, 10.21	-133/0, 0-23=-133/0, - 132/0 11 20- 124/	0							5	-	·	airs
	12-10-132/0 12 1	133/0, 11-20≓-134/ 8138/0 1/1-17- 113	0, 2/0								15	A .VGINI	EFINAN
NOTEC	12-19=-132/0, 13-1	0-100/0, 14-17=-113									11,	710	CEN S
NULES												IL A G	ILD
1) All plates	are 1.5x3 MT20 unles	s otherwise indicated										11111	anne.
<ol><li>Gable req</li></ol>	uires continuous botto	om chord bearing.										lonuar	11 2022
												January	/ 11,2023



Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:20 ID:IE1dW6EgBG4x5Wj2\_DDbSuyphgy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	K202	Floor Supported Gable	1	1	Job Reference (optional)	156098809
Carolina Structural Systems (Star	, NC)), Ether, NC - 27247,	Run: 8.63 S Nov 19 2	022 Print: 8.	630 S Nov 19	9 2022 MiTek Industries, Inc. Wed Jan 11 15:35:21	Page: 1

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:21 ID:qs2X0Dr1PdNr5CXfvj7JTRyphgA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale - 1:34 1

Scale = 1.54.1															
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCU		40.0	Plate Grip DOI	1 00		тс	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDI		10.0		1.00		BC	0.00	Vort(TL)	n/a	_	n/a	000		2	
DOLL		10.0		1.00 VEC			0.01		0.00	47	n/a	333			
BOLL		0.0	Rep Stress Incr	TES		VVB	0.03	HOUT (IL)	0.00	17	n/a	n/a			
BCDL		5.0	Code	IRC201	5/TPI2014	Matrix-R							Weight: 77 lb	FI = 20%F, 12	1%E
LUMBER				N	OTES										
TOP CHORD	2x4 SP N	lo.2(flat)		1)	All plates are	1.5x3 MT20 unl	ess other	wise indicated	d.						
BOT CHORD	2x4 SP N	lo.2(flat)		2)	Gable requir	es continuous bo	ttom chor	d bearing.							
WEBS	2x4 SP N	lo.2(flat)		3)	Truss to be f	ully sheathed from	m one fac	e or securely							
OTHERS	2x4 SP N	lo.3(flat) *E	xcept* 17-33:2x4 SP	,	braced agair	st lateral movem	nent (i.e. d	liagonal web)							
	No 2(flat)			4)	Gable studs	spaced at 1-4-0	oc.	о, ,							
BRACING				5)	This truss is	designed in acco	ordance w	ith the 2015							
	Christen		منام معاليه منابع		International	Residential Code	e sections	R502 11 1 a	ind						
TOP CHORD	6-0-0 oc	purlins, ex	cept end verticals.	a or	R802.10.2 a	nd referenced sta	andard AN	ISI/TPI 1.							
BOT CHORD	Rigid ceil bracing.	ing directly	applied or 10-0-0 oc	6)	10-00-00 oc	and fastened to e	s, on edge each truss	with 3-10d							
REACTIONS	(size)	17=18-4-0	), 18=18-4-0, 19=18-	4-0,	(0.131" X 3")	nails. Strongba	cks to be	attached to w	alls						
	( )	20=18-4-0	), 21=18-4-0, 22=18-	4-0,	at their outer	ends or restraine	ed by othe	er means.							
		23=18-4-0	0, 25=18-4-0, 26=18-	4-0, 7)	CAUTION, L	o not erect truss	backward	ds.							
		27=18-4-0	), 28=18-4-0, 29=18-	4-0, LO	DAD CASE(S)	Standard									
		30=18-4-0	), 31=18-4-0, 32=18-	4-0											
	Max Grav	17=37 (LC	C 1), 18=122 (LC 1),												
	max erar	19=152 (I	(C, 1) 20=145 (LC, 1)												
		21-147 (1	C(1), 22-147 (IC(1))	,											
		23-147 (1	C(1), 22 = 147 (LC(1))	,											
		25=147 (L	C(1), 23 = 147 (LC(1))	,											
		20=147 (L	(LC 1), $27 = 147$ (LC 1)	,											
		20=147 (L	(1), 29=147 (10.1)	,											
		30=147 (L	LC 1), 31=147 (LC 1)	,											
		32=59 (LC	J)										minin	11111	
FORCES	(lb) - Max	imum Com	pression/Maximum										IN'ZH CA	ROUL	
	Tension											1	Q	111	
TOP CHORD	1-32=-55	/0, 16-17=-	31/0, 1-2=-7/0, 2-3=-	7/0,							/	5	0 3 3 3 8 5	12/1/2	2-
	3-4=-7/0,	4-5=-7/0, 5	5-7=-7/0, 7-8=-7/0,								L	2 A		No: No	
	8-9=-7/0,	9-10=-7/0,	10-11=-7/0, 11-12=-	7/0,								-	in the second	1.	2
	12-13=-7	/0, 13-14=-	7/0, 14-15=-7/0,									6 18			2
	15-16=-7	/0									-		SEA	1. ÷	=
BOT CHORD	31-32=0/	7.30-31=0/	7. 29-30=0/7. 28-29=	=0/7.							=	:	JLA	·- :	=
	27-28=0/	7.26-27=0/	7, 25-26=0/7, 23-25=	=0/7.								:	0363	22 :	-
	22-23=0/	7.21-22=0/	7, 20-21=0/7, 19-20=	=0/7.							-			:	-
	18-19=0/	7 17-18=0/	7	,								-			-
WEBS	2-31=-13	2/0 3-30	134/0 4-29=-133/0									5 .	1. E.	-Air	-
	5-28=-13	2/0, 0 00 <u>-</u> - 3/0, 7-27	133/0 8-26=-133/0									25	S GIN	EFICAN	•
	9-25=-13	3/0 10-23-	-133/0 11-22=-133/0	r								11	10	" at i	
	12-211	34/0 13-20		2, 2/0									IL A G	illerin	
	15-181	13/0, 13-20	- 102/0, 14-13=-130	<i>,</i> 0,									111111	in the	
	10-10-1	10/0												11 0000	
													Januar	/ 11,2023	



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	K203	Floor Supported Gable	2	1	Job Reference (optional)	156098810

1-0-0

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:21 ID:UAn3XJ\_ZaJu8X2SzcEK7zzyphg\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale - 1.21

			_									
(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999			
0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a			
5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%F, 11%E	
2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat)							·					
	(psf) 40.0 10.0 0.0 5.0 2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat)	(psf) 40.0 10.0 0.0 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 40.0 Plate Grip DOL Lumber DOL Rep Stress Incr Code	(psf)         Spacing         2-0-0           40.0         Plate Grip DOL         1.00           10.0         Lumber DOL         1.00           0.0         Rep Stress Incr         YES           5.0         Code         IRC2015/TPI2014	(psf)         Spacing         2-0-0         CSI           40.0         Plate Grip DOL         1.00         TC           10.0         Lumber DOL         1.00         BC           0.0         Rep Stress Incr         YES         WB           5.0         Code         IRC2015/TPI2014         Matrix-P           2x4 SP No.2(flat)         zx4 SP No.2(flat)         Same Stress Incr         Same Stress Incr	(psf)         Spacing         2-0-0         CSI           40.0         Plate Grip DOL         1.00         TC         0.11           10.0         Lumber DOL         1.00         BC         0.01           0.0         Rep Stress Incr         YES         WB         0.00           5.0         Code         IRC2015/TPI2014         Matrix-P	(psf)         Spacing         2-0-0         CSI         DEFL           40.0         Plate Grip DOL         1.00         TC         0.11         Vert(LL)           10.0         Lumber DOL         1.00         BC         0.01         Vert(TL)           0.0         Rep Stress Incr         YES         WB         0.00         Horiz(TL)           5.0         Code         IRC2015/TPI2014         Matrix-P         Vert(TL)           2x4 SP No.2(flat)         2x4 SP No.3(flat)         Vert(Table)         Vert(Table)         Vert(Table)	(psf)         Spacing         2-0-0         CSI         DEFL         in           40.0         Plate Grip DOL         1.00         TC         0.11         Vert(LL)         n/a           10.0         Lumber DOL         1.00         BC         0.01         Vert(TL)         n/a           0.0         Rep Stress Incr         YES         WB         0.00         Horiz(TL)         0.00           5.0         Code         IRC2015/TPI2014         Matrix-P         Vert(TL)         n/a           2x4 SP No.2(flat)         zx4 SP No.3(flat)         Vert(Tt)         N         Vert(TL)         N	(psf)         Spacing         2-0-0         CSI         DEFL         in         (loc)           40.0         Plate Grip DOL         1.00         TC         0.11         Vert(LL)         n/a            10.0         Lumber DOL         1.00         BC         0.01         Vert(TL)         n/a         -           0.0         Rep Stress Incr         YES         WB         0.00         Horiz(TL)         0.00         3           5.0         Code         IRC2015/TPI2014         Matrix-P         Vert(TL)         n/a         -           2x4 SP No.2(flat)         zx4 SP No.3(flat)         Vert(Table)         <	(psf)         Spacing         2-0-0         CSI         DEFL         in         (loc)         l/defl           40.0         Plate Grip DOL         1.00         TC         0.11         Vert(LL)         n/a         -         n/a           10.0         Lumber DOL         1.00         BC         0.01         Vert(TL)         n/a         -         n/a           0.0         Rep Stress Incr         YES         WB         0.00         Horiz(TL)         0.00         3         n/a           5.0         Code         IRC2015/TPI2014         Matrix-P         Horiz(TL)         0.00         3         n/a           2x4 SP No.2(flat)         zx4 SP No.3(flat)         Vert(flat)         Second         Second	(psf)         Spacing         2-0-0         CSI         DEFL         in         (loc)         l/defl         L/d           40.0         Plate Grip DOL         1.00         TC         0.11         Vert(LL)         n/a         -         n/a         999           10.0         Lumber DOL         1.00         BC         0.01         Vert(TL)         n/a         -         n/a         999           0.0         Rep Stress Incr         YES         WB         0.00         Horiz(TL)         0.00         3         n/a         n/a           5.0         Code         IRC2015/TPI2014         Matrix-P	(psf)       Spacing       2-0-0       CSI       DEFL       in       (loc)       l/defl       L/d       PLATES         40.0       Plate Grip DOL       1.00       TC       0.11       Vert(LL)       n/a       -       n/a       999       MT20         10.0       Lumber DOL       1.00       BC       0.01       Vert(TL)       n/a       -       n/a       999       MT20         0.0       Rep Stress Incr       YES       WB       0.00       Horiz(TL)       0.00       3       n/a       n/a         5.0       Code       IRC2015/TPI2014       Matrix-P       Verticut       0.00       3       n/a       n/a         2x4 SP No.2(flat)       zx4 SP No.3(flat)       Verticut       State       State <td< td=""><td>(psf)       Spacing       2-0-0       CSI       DEFL       in       (loc)       l/defl       L/d       PLATES       GRIP         40.0       Plate Grip DOL       1.00       TC       0.11       Vert(LL)       n/a       -       n/a       999       MT20       244/190         10.0       Lumber DOL       1.00       BC       0.01       Vert(TL)       n/a       -       n/a       999       MT20       244/190         0.0       Rep Stress Incr       YES       WB       0.00       Horiz(TL)       0.00       3       n/a       n/a       PLATES       GRIP         2x4 SP No.2(flat)       IRC2015/TPI2014       Matrix-P       VB       Vert(TL)       n/a       -       n/a       999       Weight: 12 lb       FT = 20%F, 11%E         2x4 SP No.2(flat)       zx4 SP No.3(flat)       Vert(Table       &lt;</td></td<>	(psf)       Spacing       2-0-0       CSI       DEFL       in       (loc)       l/defl       L/d       PLATES       GRIP         40.0       Plate Grip DOL       1.00       TC       0.11       Vert(LL)       n/a       -       n/a       999       MT20       244/190         10.0       Lumber DOL       1.00       BC       0.01       Vert(TL)       n/a       -       n/a       999       MT20       244/190         0.0       Rep Stress Incr       YES       WB       0.00       Horiz(TL)       0.00       3       n/a       n/a       PLATES       GRIP         2x4 SP No.2(flat)       IRC2015/TPI2014       Matrix-P       VB       Vert(TL)       n/a       -       n/a       999       Weight: 12 lb       FT = 20%F, 11%E         2x4 SP No.2(flat)       zx4 SP No.3(flat)       Vert(Table       <

TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 3=1-6-0, 4=1-6-0 Max Grav 3=69 (LC 1), 4=69 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-4=-62/0, 2-3=-62/0, 1-2=0/0 BOT CHORD 3-4=0/0

WEBS

NOTES

1) Gable requires continuous bottom chord bearing.

Truss to be fully sheathed from one face or securely 2) braced against lateral movement (i.e. diagonal web).

Gable studs spaced at 1-4-0 oc. 3)

1-3=0/0

This truss is designed in accordance with the 2015 4) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Recommend 2x6 strongbacks, on edge, spaced at 5) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

# 0 Manan Manan MANDER IN INTERNET SEAL 036322 GI 111111111 January 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	K204	Floor Supported Gable	1	1	Job Reference (optional)	156098811
Carolina Structural Systems (Sta	r, NC)), Ether, NC - 27247,	Run: 8.63 S Nov 19 2	022 Print: 8.	630 S Nov 19	9 2022 MiTek Industries, Inc. Wed Jan 11 15:35:21	Page: 1

Run: 8,63 S Nov 19 2022 Print: 8,630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:21 ID:7I11cELIIDX0WVAXpqMwe4yphfX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



7-0-0 7-0-0

Scale = 1:17.8

1-2-0

Loading TCLL TCDL	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI TC BC	0.08 0.03	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code	YES IRC2015/TPI2014	WB Matrix-R	0.03	Horiz(TL)	0.00	8	n/a	n/a	Weight: 33 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) *E No.2(flat)	Except* 13-14:2x4 SF	2									
BRACING TOP CHORD	Structural wood she 6-0-0 oc purlins, ex	eathing directly applie ccept end verticals.	ed or									
BOT CHORD	Rigid ceiling directly bracing.	/ applied or 10-0-0 or	0									
REACTIONS	(size) 8=7-0-0, 9 11=7-0-0, Max Grav 8=86 (LC (LC 1), 11 1), 13=62	9=7-0-0, 10=7-0-0, , 12=7-0-0, 13=7-0-0 : 1), 9=159 (LC 1), 1( 1=150 (LC 1), 12=13 2 (LC 1)	) )=143 5 (LC									
FORCES	(lb) - Maximum Com	npression/Maximum										
TOP CHORD	1-13=-54/0, 7-8=0/1 3-416/0, 4-516/0	3, 1-2=-16/0, 2-3=-1	6/0, '0									
BOT CHORD	12-13=0/16, 11-12= 9-10=0/16, 8-9=0/16	:0/16, 10-11=0/16, 6	0									
WEBS	2-12=-126/0, 3-11=- 5-9=-142/0, 6-8=-94	-136/0, 4-10=-131/0, 4/0									mun	10 <i>1</i> 1.
NOTES											I'L'H CA	ROUL
1) All plates	are 1.5x3 MT20 unless	s otherwise indicated	l.							N	R	Chillin .
2) Gable req	uires continuous botto	m chord bearing.								X	O'. FESS	A Vin
3) Truss to b	e fully sheathed from o	one face or securely								\$ 5		M
braced ag	jainst lateral movemen	it (i.e. diagonal web).										
<ol> <li>Gable stud</li> <li>This trues</li> </ol>	ds spaced at 1-4-0 oc.	ance with the 2015								:	SEA	L : =
Internation	nal Residential Code s	ections R502.11.1 a	nd						Ξ		0262	50 E
R802.10.2	2 and referenced stand	dard ANSI/TPI 1.							1	:	0363	22 : :
6) Recomme	end 2x6 strongbacks, c	on edge, spaced at							-	6		1 S - S
10-00-00	oc and fastened to eac	ch truss with 3-10d							S	2	N. Fr.	Airs
(0.131" X	3") nails. Strongbacks	s to be attached to w	alis							25	GIN	EF. AN
7) CAUTION	I Do not erect truss ha	ackwards								11	C	ILBE IN
LOAD CASE	(S) Standard										11, A. G	IL IIII
0	-, standard										2000	11.0000
											January	/ 11,2023



January 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	K205	Floor Supported Gable	1	1	Job Reference (optional)	156083442

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Wed Jan 11 16:04:34 ID:bC6qOOZ2WIpTgGY?scg9MtyphfF-Hjm9yHPi6bXA5XsdGQDy4C8E5o4KPntjD27qhGzwNeB

Page: 1





#### Scale = 1:26.7

<b>Loading</b> TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2015/TPI2014	<b>CSI</b> TC BC WB Matrix-R	0.17 0.02 0.05	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 57 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORE BOT CHORE WEBS OTHERS BRACING TOP CHORE BOT CHORE	<ul> <li>2x4 SP No.2(flat)</li> <li>2x4 SP No.2(flat)</li> <li>2x4 SP No.2(flat)</li> <li>2x4 SP No.3(flat) *E: No.2(flat)</li> <li>Structural wood she: 6-0-0 oc purlins, exit</li> <li>Rigid ceiling directly bracing.</li> </ul>	xcept* 22-23:2x4 Sf athing directly applic cept end verticals. applied or 10-0-0 o	ed or c									
REACTIONS (lb)	All bearings 13-5-8. - Max Grav All reactio (s) 12, 13, 20, 21, 22	ns 250 (lb) or less a 14, 15, 16, 17, 18,	at joint 19,									
FORCES	(lb) - Max. Comp./Ma (lb) or less except wi	ax. Ten All forces hen shown.	250									
<ul> <li>NOTES</li> <li>1) All plates</li> <li>2) Gable re</li> <li>3) Truss to braced a</li> <li>4) Gable st</li> <li>5) This trus Internation R802.10</li> <li>6) Recomm 10-00-00 (0.131") at their o</li> <li>7) CAUTIO</li> <li>LOAD CASE</li> <li>1) Dead + Plate In Uniform Vert:</li> <li>Concer Vert:</li> </ul>	are 1.5x3 MT20 unless quires continuous bottor be fully sheathed from c gainst lateral movement uds spaced at 1-4-0 oc. s is designed in accorda onal Residential Code se .2 and referenced stand tend 2x6 strongbacks, o 0 oc and fastened to eac (3") nails. Strongbacks, 0 oc and fastened to eac (3") nails. Strongbacks uter ends or restrained H N, Do not erect truss ba <b>(5)</b> Standard Floor Live (balanced): L (crease=1.00 n Loads (lb/ft) 12-22=-10, 1-11=-100 trated Loads (lb) 4=-97, 7=-97, 10=-97, 2	<ul> <li>otherwise indicated in chord bearing.</li> <li>one face or securely (i.e. diagonal web)</li> <li>ince with the 2015</li> <li>bections R502.11.1 a ard ANSI/TPI 1.</li> <li>in edge, spaced at h truss with 3-10d to be attached to w by other means.</li> <li>ckwards.</li> <li>umber Increase=1.</li> </ul>	1. nd alls 00,						Contraction of the second seco		SEA 0363	



January 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	K206	Floor Supported Gable	1	1	Job Reference (optional)	156083443

0-1-8 Н



## 12-2-0

#### Scale = 1:24.7

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2015/TPI2014	CSI TC BC WB Matrix-R	0.10 0.02 0.04	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	<b>PLATES</b> MT20 Weight: 52 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) *Ex No.2(flat)	<pre>xcept* 20-21:2x4 SF</pre>										
TOP CHORD	Structural wood shea 6-0-0 oc purlins, exc	athing directly applie cept end verticals.	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	2									
REACTIONS / (Ib) - N	All bearings 12-2-0. Max Grav All reaction (s) 11, 12, 19, 20	ns 250 (lb) or less a 13, 14, 15, 16, 17,	t joint 18,									
FORCES	(lb) - Max. Comp./Ma (lb) or less except wh	ax. Ten All forces : nen shown.	250									
NOTES	()											
<ol> <li>All plates and</li> <li>Gable required</li> <li>Truss to be braced aga</li> <li>Gable stude</li> <li>This truss is Internationa R802.10.2 at</li> <li>Recommen 10-00-00 or (0.131" X 3</li> <li>Recommen To-00-00 or (0.131" X 3</li> <li>CAUTION,</li> <li>CAUTION,</li> <li>LOAD CASE(S</li> <li>Dead + Flup Plate Increa Uniform Li Vert: 11</li> <li>Concentra Vert: 3=</li> </ol>	re 1.5x3 MT20 unless ires continuous bottor fully sheathed from o inst lateral movement is spaced at 1-4-0 oc. is designed in accorda al Residential Code se and referenced standa d 2x6 strongbacks, or c and fastened to eacl ") nails. Strongbacks er ends or restrained to Do not erect truss bad oor Live (balanced): L ease=1.00 oads (lb/ft) I-20=-10, 1-10=-100 tted Loads (lb) I-242, 6=-42, 9=-42, 22	otherwise indicated n chord bearing. ne face or securely (i.e. diagonal web). nce with the 2015 ections R502.11.1 an ard ANSI/TPI 1. n edge, spaced at h truss with 3-10d to be attached to way other means. ckwards. umber Increase=1.0	I. nd alls D0,						Contraction of the second seco		SEA 0363	EER. KINN

January 11,2023

Page: 1

818 Soundside Road Edenton, NC 27932

Run: 8,63 S Nov 21 2022 Print: 8,630 S Nov 21 2022 MiTek Industries, Inc. Wed Jan 11 16:04:57 ID:rUD5Q540OyDMKtKGu8yEcxyphea-68frn8h7hfQvM3627m7LW2bAN3wnIBk6V7BY?QzwNdq

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	K207	Floor Supported Gable	1	1	Job Reference (optional)	156098814

3x3 II

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:22 ID:brcZX1sQ8mP2tOkq?nGFhUyp14j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





3x6 =

3x3 ш

Page: 1

1-2-0

7-1-0
7-1-0

#### Scale = 1:17.1

Loa TCL	ding .L	(psf) 40.0	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC	0.09	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
тсе	DL	10.0	Lumber DOL	1.00	вс	0.03	Vert(TL)	n/a	-	n/a	999		
BCL	.L	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	8	n/a	n/a		
BCE	DL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 33 lb	FT = 20%F, 11%E
				·				-		-			
TOF		2x4 SP No 2(flat)											
BOT	CHORD	2x4 SP No.2(flat)											
WE	BS	2x4 SP No.2(flat)											
OTH	HERS	2x4 SP No.2(flat)											
BRA	ACING	. ,											
TOF	CHORD	Structural wood sh	eathing directly applie	ed or									
		6-0-0 oc purlins, e	xcept end verticals.										
BOT	r CHORD	Rigid ceiling direct bracing.	y applied or 10-0-0 o	с									
REA	ACTIONS	(size) 8=7-1-0	9=7-1-0, 10=7-1-0,										
		11=7-1-	), 12=7-1-0, 13=7-1-0	)									
		Max Grav 8=94 (L	C 1), 9=160 (LC 1), 10	0=142									
		(LC 1), 1	1=151 (LC 1), 12=13	33 (LC									
	0000	1), 13=7											
FOF	KCES	(ID) - Maximum Co	mpression/iviaximum										
			7 1 2 17/0 2 2 17	7/0									
IOF	CHORD	3-4=-17/0 4-5=-17	/0 5-6=-17/0 6-7=-1/	/0,									
вот	CHORD	12-13=0/17. 11-12	=0/17.10-11=0/17.										
		9-10=0/17, 8-9=0/	7										
WE	BS	2-12=-125/0, 3-11=	-136/0, 4-10=-130/0,										
		5-9=-143/0, 6-8=-9	8/0										
NOT	TES											minin	1111.
1)	All plates a	are 1.5x3 MT20 unle	ss otherwise indicated	d.							3	"TH CA	Rollin
2)	Gable requ	uires continuous bott	om chord bearing.								15	R	Della-
3)	Truss to be	e fully sheathed from	one face or securely								22	and a	Op 200
	braced aga	ainst lateral moveme	nt (i.e. diagonal web)							-			
4)	Gable stuc	is spaced at 1-4-0 or								-		· Q.	S
5)	I IIIS Truss	is designed in accord	ance with the 2015	nd						-		SEA	. : =
	R802 10 2	and referenced star	dard ANSI/TPI 1	inu						=		JLA	
6)	Recomme	nd 2x6 strongbacks	on edge spaced at							Ξ		0363	22 :
3)	10-00-00 c	bc and fastened to ea	ich truss with 3-10d								0	•	1 E
	(0.131" X 3	3") nails. Strongback	s to be attached to w	alls							1	·	1 1 S

at their outer ends or restrained by other means.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	L01	Monopitch	4	1	Job Reference (optional)	156098815

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:22 ID:uG7qkfBzq0M3btssHciqHDyokEI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

22 Pa



Scale = 1:29

Plate Offsets (X, Y): [2:0-3-0,Edge]

<b>Loading</b> TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-AS	0.45 0.60 0.02	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.04 0.00 0.02	(loc) 5-8 5-8 2 5-8	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 32 lb	<b>GRIP</b> 244/190 FT = 20%	
BCDL LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Wind: ASK Vasd=9567 B=45ft; L= MWFRS ( 2-1-8, Inte and right of Dorch Ieff	JUMBER       5)       Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.         OD C HORD       2x4 SP No.2       6)       Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.         VEBS       2x4 SP No.2       7)       Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.         THERS       2x4 SP No.2       6)       Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.         TOP CHORD       Structural wood sheathing directly applied.       7)       This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and Residential R02.10.2 and referenced standard ANSI/TPI 1.         ************************************												
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 3-06-00 tall by 2-00-00 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) A. GIL-BERTINI January 11,2023								ANNI HITTER					
	NING - Verify design paramete	rs and READ NOTES ON	THIS AND INCLUDED MIT	EK REFERENCE PAGE MI	I-7473 rev. 5	/19/2020 BEFOF	RE USE.				ENGINEER	NG BY	

Engineering By A MiTek Atfiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	L02	Monopitch Structural Gable	1	1	Job Reference (optional)	156098816

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:22 ID:N?k34ddwbnm5IG1aqSq1CcyokDI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.1

Plate Offsets (X, Y): [6:Edge,0-1-12]

Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.00 1.15		CSI TC BC	0.09	DEFL Vert(LL) Vert(CT)	in 0.00 -0.01	(loc) 9-12 9-12	l/defl >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code	IRC2015/TPI	2014	Matrix-AS	0.03	Wind(LL)	0.00	9-12	>999	11/a 240	Weight: 29 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood sheat except end verticals. Rigid ceiling directly (size) 2=0-3-8, 6 Max Horiz 2=72 (LC Max Uplift 2=-44 (LC (LC 12) Max Grav 2=179 (LC (LC 1), 8= (lb) - Maximum Com	athing directly applied, applied. 5=3-7-8, 7=3-7-8, 8=0- 11) 12), 6=-2 (LC 9), 8=-5 21), 6=64 (LC 1), 7=10 251 (LC 1) pression/Maximum	4) Thi chc 5) * Tl on 3-0 chc 6) Prc bea 6, 4 3-8 7) Thi Inte 52 8) Thi 51 07 chc the 100 Prc	s truss hai ord live loa his truss h the bottor 6-00 tall b ord and an ovide mect aring plate 14 lb uplift 14 lb uplift 14 lb uplift 15 truss is c ernational 02.10.2 ar s truss dei uctural woo ord and 1/2 bottom ch <b>CASF(S)</b>	s been designed fo d nonconcurrent w as been designed in n chord in all areas y 2-00-00 wide will y other members. nanical connection capable of withsta at joint 2 and 52 lb Jesigned in accord. Residential Code s di referenced stance sign requires that a bd sheathing be ap " gypsum sheetroo nord.	r a 10.0 ith any for a liv where fit betw (by oth- nding 2 uplift a ance w ections dard AN minim plied di ck be ap	) psf bottom other live loa e load of 20.0 a rectangle even the botto ers) of truss t lb uplift at joi t joint 8. th the 2015 R502.11.1 a SI/TPI 1. um of 7/16" rectly to the t splied directly	ds. Dpsf om int nd op r to					
	Tension	70 2 4- 75/51	LUAD	CASE(S)	Standard								
BOT CHORD	4-5=-41/36, 5-6=-41/ 2-9=-55/43, 8-9=-35/ 6-7=-35/38	'35 '38, 7-8=-35/38,											
WEBS	4-7=-130/85, 3-9=-1	52/71										minin	1111
<ul> <li>NOTES</li> <li>1) Wind: ASC Vasd=95m B=45ft; L= MWFRS (r/2-1-8, Inter and right e porch left of MWFRS fr grip DOL=</li> <li>2) Truss des only. For : see Stand or consult</li> <li>3) Gable stude</li> </ul>	CE 7-10; Vult=120mph nph; TCDL=6.0psf; BC :24ft; eave=4ft; Cat. II; directional) and C-C Ex rior (1) 2-1-8 to 6-10-4 exposed; end vertical I exposed; C-C for memb or reactions shown; Lu :1.60 signed for wind loads ir studs exposed to wind ard Industry Gable End qualified building desig ds spaced at 2-0-0 oc.	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; (terior (2) -0-10-8 to zone; cantilever left eft and right exposed; oers and forces & mber DOL=1.60 plate the plane of the truss (normal to the face), d Details as applicable gner as per ANSI/TPI	; ;							Within		SEA O363	L L L B E E R R R L N I I I I I I I I I I I I I I I I I I

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 **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



January 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	P01	Piggyback	1	1	Job Reference (optional)	156098817

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:23 ID:6S9MumeEoli5XOZ0dsMAI1ynpaT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



		12	011	_
Scale = 1:41.1	I			
Plate Offsets (X, Y): [2:0-2-1,0-1-8], [8:0-2-1,0-1-8]				

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.15 YES IRC2014	5/TPI2014	CSI TC BC WB Matrix-AS	0.05 0.04 0.04	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 67 lb	<b>GRIP</b> 244/190 ET = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she Rigid ceiling directly (size) 2=12-3-1 11=12-3- 15=12-3- 15=12-3- Max Horiz 2=-98 (LC Max Uplift 10=-43 (L 13=-31 (L 10=192 (L 12=119 (I 14=193 (L 19=116 (L))	athing directly applie applied. 1, 8=12-3-11, 10=12- 11, 12=12-3-11, 11, 14=12-3-11, 11, 19=12-3-11, 10, 15=-98 (LC 10), C 12), 11=-31 (LC 12, C 12), 14=-43 (LC 12, C 18), 8=116 (LC 1), C 18), 11=162 (LC 1 LC 1), 13=162 (LC 1 LC 1), 15=122 (LC 1), LC 1), 15=122 (LC 1), LC 1)	d. 3-11, 2) 2) 2) 4) 8), 5) 5) 7), 7) 8), 8), 8), 8), 8), 8), 8), 8), 8), 8)	Wind: ASCE Vasd=95mpl B=45ft; L=24 MWFRS (dir 3-2-14, Interi 9-9-9, Interio and right exp exposed;C-C reactions sho DOL=1.60 Truss design only. For stt see Standard or consult qu All plates are Gable requir Gable studs This truss ha chord live loa * This truss f	7-10; Vult=120mp; ;; TCDL=6.0psf; B ft; eave=4ft; Cat. I ectional) and C-C or (1) 3-2-14 to 6- r (1) 9-9-9 to 13-4 oosed ; end vertica c for members and own; Lumber DOL hed for wind loads ids exposed to wird d Industry Gable E alified building de 2x4 MT20 unless es continuous bott spaced at 2-0-0 o s been designed f ad nonconcurrent has been designed	bh (3-sec CDL=6.0 II; Exp B Exterior 9-9, Exterior 9-9, Exterior 3 zone; al left anc I forces & =1.60 pli in the pli d (norm ind Deta signer as s otherwit com chor c. for a 10.0 with any i for a liv	ond gust) psf; h=25ft; Enclosed; (2) 0-2-14 to rrior (2) 6-9-9 cantilever left iright & MWFRS for ate grip ane of the tru: al to the face) Is as applicab per ANSI/TP se indicated. d bearing. ) psf bottom other live loac e load of 20.0	to ss , ole, il 1. ds. psf				weight. Of ib	11 - 2078
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=0/15, 2-3=-89/7	pression/Maximum 1, 3-4=-91/45,	0)	on the bottor 3-06-00 tall t chord and ar	n chord in all area by 2-00-00 wide wind by other members.	s where ill fit betv	a rectangle veen the botto	m					
BOT CHORD WEBS	4-5=-102/90, 5-6=-1 7-8=-67/50, 8-9=0/1 2-14=-53/79, 13-14= 11-12=-53/79, 10-1 5-12=-77/21, 4-13=- 6-11=-127/83, 7-10-	02/92, 6-7=-70/36, 5 =-53/79, 12-13=-53/79 !=-53/79, 8-10=-53/79 .128/83, 3-14=-144/86 =-144/86	9) 9, 9 6, 10	Provide mec bearing plate 13, 43 lb upli uplift at joint ) This truss is	hanical connection capable of withst ft at joint 14, 31 lb 10. designed in accor	n (by oth anding 3 uplift at dance w	ers) of truss to 1 lb uplift at jo joint 11 and 4 th the 2015	o bint 3 lb		4	ALL A	OR TESS	ROUNT
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for	11	International R802.10.2 at This truss de structural wo chord and 1/ the bottom c	Residential Code nd referenced star sign requires that od sheathing be a 2" gypsum sheetro	sections dard AN a minim pplied di ock be a	R502.11.1 ar ISI/TPI 1. um of 7/16" rectly to the to oplied directly	nd op to		THE PARTY		SEA 0363	L 22

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	P02	Piggyback	8	1	Job Reference (optional)	156098818

Run: 8,63 S Nov 19 2022 Print: 8,630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:23 ID:vZf5ezjB7mf?u1?R0OIPMDynpyv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

G

mmm January 11,2023

818 Soundside Road Edenton, NC 27932



		12	-0-11	1
Scale = 1:41.1	I			1
Plate Offsets (X, Y): [2:0-2-1,0-1-8],	[4:0-2-1,0-1-8]			

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC20 <sup>2</sup>	5/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.39 0.36 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 52 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Linbalance	2x4 SP No 2x4 SP No 2x4 SP No 2x4 SP No Structural Rigid ceili (size) Max Horiz Max Uplift Max Grav (lb) - Maxi Tension 1-2=0/15, 4-5=0/15 2-6=-31/1 3-6=-149/	10.0 0.2 0.2 0.3 wood sheat ng directly 2=12-3-11 7=12-3-11 2=98 (LC 2=-42 (LC 2=343 (LC (LC 1), 7=-1) mum Com 2-3=-286/1 53, 4-6=-32 0 pads bave	athing directly applied applied. , 4=12-3-11, 6=12-3 , 11=12-3-11 11), 7=98 (LC 11) 12), 4=-42 (LC 12), 12), 11=-42 (LC 12) 21), 4=343 (LC 1), 6 343 (LC 1), 11=343 pression/Maximum 112, 3-4=-286/114, 3/153 been considered for	4 5 6 7 d. -11, 8 =348 9 (LC 1 1	<ul> <li>STP12014</li> <li>Gable require</li> <li>Gable studs</li> <li>This truss hat chord live loat</li> <li>This truss hat chord and art chord and art of the bottor 3-06-00 tall be chord and art of the provide meet</li> <li>Provide meet</li> <li>Provide meet</li> <li>Provide meet</li> <li>Provide the provide the providet the provide the provide the providet the</li></ul>	Matrix-AS es continuous botto spaced at 6-0-0 oc. s been designed fo ad nonconcurrent w nas been designed fo n chord in all areas by 2-00-00 wide will y other members. hanical connection capable of withsta at joint 4, 42 lb upl 4. designed in accord Residential Code s nd referenced stand sign requires that a od sheathing be ap 2" gypsum sheetron ord. d Industry Piggybad nection to base tru ied building design Standard	om chor ir a 10.0 ir a 10.0 ir a ny fit hany fit betw (by oth nding 4 ift at joi ance w sections dard AN a minim oplied di ck be a ck Truss uss as a er.	d bearing. ) psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss ti 2 lb uplift at ji nt 2 and 42 lb ith the 2015 R502.11.1 a ISJ/TPI 1. um of 7/16" rectly to the t oplied directly s Connection applicable, or	ds. )psf om oint o nd op r to				weight: 52 ib	
<ul> <li>this design</li> <li>Wind: ASC</li> <li>Vasd=95m</li> <li>B=45ft; L=</li> <li>MWFRS (</li> <li>3-2-14, Int</li> <li>9-9-9, Inte</li> <li>and right e</li> <li>exposed; C</li> <li>reactions s</li> <li>DOL=1.60</li> <li>Truss des</li> <li>only. For s</li> </ul>	h. CE 7-10; Vul hph; TCDL=: -24ft; eave=	It=120mph 6.0psf; BCI 4ft; Cat. II; and C-C E3 -14 to 6-9 -14 to 6-9	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; (terior (2) 0-2-14 to 9, Exterior (2) 6-9-9 1 zone; cantilever left eft and right prces & MWFRS for .60 plate grip	to							Contraction of the second seco		SEA 0363	

Truss designed for wind loads in the plane of the truss 3) 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.

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	P03	Roof Special Girder	1	2	Job Reference (optional)	156098819

5-7-15

2

3x4 =

0-4-13

Run: 8,63 S Nov 19 2022 Print: 8,630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:23

Page: 1



6

12-3-11

2x4 II

Loading TCLL (roof) TCDL	(psf) 20.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL	2-0-0 1.00 1.15		CSI TC BC	0.24 0.15	<b>DEFL</b> Vert(LL) Vert(CT)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	NO IRC20	15/TPI2014	WB Matrix-MS	0.11	Horz(CT)	0.00	4	n/a	n/a	Weight: 124 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 Structural wood she 10-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=12-3-1 9=12-3-1 Max Horiz 2=-98 (LC Max Uplift 2=-1 (LC (LC 8), 9 Max Grav 2=3 (LC 6=1033 (I	athing directly applie applied or 6-0-0 oc 1, 4=12-3-11, 6=12-3 1 5 6), 9=-98 (LC 6) 8), 4=-143 (LC 17), 6 =-1 (LC 8) 7), 4=-139 (LC 18), .C 1), 9=3 (LC 17)	d or 4	<ul> <li>Wind: ASCE Vasd=95mpl B=45ft; L=24 MWFRS (dir end vertical 1 plate grip DC</li> <li>Truss desig only. For stu see Standar or consult qu</li> <li>Gable requir Gable studs</li> <li>This truss ha chord live loa</li> <li>* This truss h on the bottor</li> <li>Con the bottor</li> </ul>	7-10; Vult=1200 7-10; Vult=1200 r; TCDL=6.0psf; Ift; eave=2ft; Ca ectional); cantile eft and right exp DL=1.60 ned for wind loa dis exposed to v d Industry Gable ialified building of es continuous b spaced at 6-0-0 is been designe ad nonconcurrer has been design n chord in all arr v 2.000 wide	mph (3-sec ; BCDL=6.1 t. II; Exp B ever left an posed; Lun ds in the p wind (norm e End Deta designer a: dtom chor oc. d for a 10.1 t with any led for a liv eas where will th boby	cond gust) Dpsf; h=25ft; ; Enclosed; d right expos aber DOL=1.0 ane of the tri al to the face ils as applica s per ANSI/T d bearing. D psf bottom other live loa e load of 20.0 a rectangle	ed ; 50 Jss ), ble, PI 1. ds. Dpsf					
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Con Tension 1-2=0/15, 2-3=-177/ 4-5=0/15 2-6=-282/90, 4-6=-2	pression/Maximum 483, 3-4=-175/451, 82/90		<ul> <li>chord and ar</li> <li>chord and ar</li> <li>Provide mec</li> <li>bearing plate</li> <li>2, 143 lb upl</li> </ul>	hy other membe hanical connect capable of with ift at joint 4, 27 ll	rs. ion (by oth istanding 1 b uplift at jo	ers) of truss Ib uplift at jo pint 6 and 1 I	to int b					
WEBS NOTES 1) 2-ply truss	3-6=-767/61 s to be connected toge	ther as follows:		I1) This truss is International R802.10.2 a	designed in acc Residential Coo nd referenced st	ordance w de sections tandard AN	ith the 2015 R502.11.1 a ISI/TPI 1.	Ind					11111

- Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD 2)  $\mathsf{CASE}(\mathsf{S})$  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.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



4

3x4 =

5



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	P04	Roof Special Girder	1	3	Job Reference (optional)	156098820

6-1-13

6-1-13

12 10 Г

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:24 ID:vv8hh92H\_\_\_oK3NEg35WrKyno?E-RfC?PsB70Hg3NSgPgnL8w3uITXbGKWrCDoi7J4zJC?f

4x5 = 3

3x4 =

Page: 1



5-7-15

5-0-2

-4-13 2

3x4 =

6)

Scale = 1:41.1 Loading Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) in (loc) Plate Grip DOL TCLL (roof) 20.0 1.00 TC 0.16 Vert(LL) n/a 999 MT20 244/190 n/a BC TCDI 10.0 Lumber DOL 1 15 Vert(CT) 999 0.10 n/a n/a BCLL 0.0\* Rep Stress Incr NO WB 0.06 Horz(CT) 0.00 4 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-MS Weight: 186 lb FT = 20% LUMBER 4) Wind: ASCE 7-10; Vult=120mph (3-second gust) TOP CHORD 2x4 SP No.2 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; BOT CHORD 2x6 SP No.2

2x4 🛛

12-3-11

OTHERS	2x4 SP N	0.3							
BRACING									
TOP CHORD	Structural wood sheathing directly applied o								
	10-0-0 oc	purlins.							
BOT CHORD	CHORD Rigid ceiling directly applied or 6-0-0 oc								
	bracing.								
REACTIONS	(size)	2=12-3-11, 4=12-3-11, 6=12-3-11,							
		9=12-3-11							
	Max Horiz	2=98 (LC 7), 9=98 (LC 7)							
	Max Uplift	4=-142 (LC 17), 6=-27 (LC 8)							
	Max Grav	2=2 (LC 17), 4=139 (LC 18),							

6=1033 (LC 1), 9=2 (LC 17) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/15, 2-3=-173/488, 3-4=-172/456, 4-5=0/15 BOT CHORD 2-6=-280/86, 4-6=-280/86 WEBS 3-6=-766/61

#### NOTES

 3-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

 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.

 Unbalanced roof live loads have been considered for this design. 4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Truss designed for wind loads in the plane of the truss

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.

- 7) Gable studs spaced at 6-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 4 and 27 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA		
GHWISAR WUA	P05	Piggyback	4	1	Job Reference (optional)	156098821	

6-1-13

6-1-13

-0-7-7

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:24 ID:vv8hh92H\_\_\_oK3NEg35WrKyno?E-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

12-3-11

6-1-13

Page: 1

12-11-1

15 16 5-7-15 5-6-5 14 17 2 4 0-4-13 5 6 3x4 = 2x4 II 3x4 = 12-3-11 =24ft; eave=4ft; Cat. II; Exp B; Enclosed Q MWFRS (directional) and C-C Exterior (2) 0-2-14 to THE COMPANY 3-2-14, Interior (1) 3-2-14 to 6-9-9, Exterior (2) 6-9-9 to SEAL 9-9-9, Interior (1) 9-9-9 to 13-4-3 zone; cantilever left 036322 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 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, GI or consult qualified building designer as per ANSI/TPI 1. mmm January 11,2023



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



Scale = 1:41.1

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC20	15/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.39 0.36 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 52 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No 2x4 SP No 2x4 SP No Structural Rigid ceilin (size) Max Horiz Max Uplift Max Grav	.2 .2 .3 wood she g directly 2=12-3-11 7=12-3-11 2=-98 (LC 2=-98 (LC 2=-42 (LC 7=-42 (LC 2=343 (LC LC 1), 7= 1)	athing directly applie applied. , 4=12-3-11, 6=12-3 , 11=12-3-11 : 10), 7=-98 (LC 10) : 12), 4=-42 (LC 12), : 12), 11=-42 (LC 12) : 12), 11=-42 (LC 12) : 12), 4=343 (LC 1), 6 :343 (LC 1), 11=343	2 5 6 7 7 7 7 8 7 7 8 7 8 7 8 8 7 8 8 8 8 8	<ul> <li>Gable requir</li> <li>Gable studs</li> <li>Gable studs</li> <li>This truss ha chord live loa</li> <li>* This truss I on the bottoo</li> <li>3-06-00 tall I chord and an</li> <li>Provide mec bearing plate</li> <li>42 lb uplif uplif at joint</li> <li>This truss is International R802.10.2 a</li> </ul>	es continuous br spaced at 6-0-0 is been designer ad nonconcurrer has been design n chord in all are by 2-00-00 wide by other member hanical connecti capable of with at joint 4, 42 lb 4. designed in acco Residential Coo nd referenced st	bottom chor oc. d for a 10.1 tt with any ed for a liv as where will fit betv rs. on (by oth standing 4 uplift at joi ordance w le sections andard AN	d bearing. ) psf bottom other live loa e load of 20. a rectangle veen the bott ers) of truss 2 lb uplift at nt 2 and 42 l ith the 2015 R502.11.1 a ISI/TPI 1.	ids. Opsf om oint o						
FORCES TOP CHORD BOT CHORD	(lb) - Maxir Tension 1-2=0/15, 2 4-5=0/15 2-6=-31/15	num Com 2-3=-286/ 53, 4-6=-3	pression/Maximum 112, 3-4=-286/114, 3/153		<ul> <li>0) This truss de structural wo chord and 1/ the bottom c</li> <li>1) See Standar Detail for Co</li> </ul>	sign requires the od sheathing be 2" gypsum shee hord. d Industry Piggy nnection to base	at a minim applied d trock be a back Trus truss as a	um of 7/16" rectly to the oplied directl s Connection applicable, or	top y to						
NOTES 1) Unbalance this design 2) Wind: AS( Vasd=95m B=45ft; L= MWFRS ( 3-2-14, Int 9-9-9, Inte and right exposed; reactions a DOL=1.60 3) Truss des only Eer	stude groof live lo ad roof live lo ad	ads have =120mph 0.0psf; BC ft; Cat. II; nd C-C E: 14 to 6-9- 14 to 6-9- 14 to 13-4-3 d vertical I bers and fo ber DOL= <sup>-1</sup>	been considered for (3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior (2) 0-2-14 to 9, Exterior (2) 6-9-9 zone; cantilever left eft and right proces & MWFRS for 1.60 plate grip the plane of the tru (normal to the face)	to	consult quali	fied building des Standard	igner.				CA. HILLING		SEA 0363	L 22 EEER.	and an

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA		
GHWISAR WUA	P06	Piggyback	1	1	Job Reference (optional)	156098822	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:24 ID:\_A80FhnLAV2Y5Rn73PnNpsynnWb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	.2011					
Scale = 1:41.1						
Plate Offsets (X, Y): [2:0-2-1,0-1-8], [8:0-2-1,0-1-8]						

		-			-								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-AS	0.05 0.04 0.04	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 67 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she Rigid ceiling directly (size) 2=12-3-1 11=12-3- 13=12-3- 15=12-3- Max Horiz 2=-98 (LC Max Uplift 10=-43 (L 13=-31 (L Max Grav 2=122 (LC 10=192 (L 12=119 (L 14=193 (L 19=116 (L	athing directly applied applied. 1, 8=12-3-11, 10=12-3 11, 12=12-3-11, 11, 14=12-3-11, 11, 19=12-3-11 C 10), 15=-98 (LC 10) C 12), 11=-31 (LC 12) C 12), 11=-31 (LC 12) C 12), 14=-43 (LC 12) C 12), 14=-43 (LC 12) C 13), 8=116 (LC 1), LC 18), 11=162 (LC 1) LC 1), 13=162 (LC 1) LC 1), 15=122 (LC 1) LC 1)	2) d. 3-11, 3) (), (), (), (), (), (), (), (), (), ()	<ul> <li>Wind: ASCE Vasd=95mpl B=45ft; L=24</li> <li>MWFRS (dir 3-2-14, Interi 9-9-9, Interio and right exp exposed; C-C reactions shot DOL=1.60</li> <li>Truss design only. For stu see Standarc or consult qu</li> <li>All plates are Gable requiri</li> <li>Gable studs</li> <li>This truss ha chord live loa</li> <li>* This truss th</li> </ul>	7-10; Vult=120mp n; TCDL=6.0psf; E ft; eave=4ft; Cat. ectional) and C-C ior (1) 3-2-14 to 6- ir (1) 9-9 to 13-4 bosed ; end vertica ; for members and bown; Lumber DOL ned for wind loads ids exposed to wind d Industry Gable E tailfied building de a 2x4 MT20 unless es continuous bott spaced at 2-0-0 o is been designed ad nonconcurrent as been designed	bh (3-see 3CDL=6. II; Exp B Exterior 9-9, Exter- -3 zone; al left and f forces = =1.60 pl is in the p hd (norm ind Deta signer a s otherwith other another for a 10. with any d for a lis	sond gust) Opsf; h=25ft; ; Enclosed; (2) 0-2-14 to errior (2) 6-9-9 cantilever left d right & MWFRS for ate grip lane of the tru ils as applicat s per ANSI/TF se indicated. d bearing. 0 psf bottom other live load of 20.0	to ss l, ble, Pl 1. ds. psf					
FORCES	(lb) - Maximum Com Tension 1-2=0/15, 2-3=-89/7	npression/Maximum		on the bottor 3-06-00 tall b	n chord in all area by 2-00-00 wide w	s where ill fit betv	a rectangle veen the botto	) m					
BOT CHORD WEBS	4-5=-102/90, 5-6=-1 7-8=-67/50, 8-9=0/1 2-14=-53/79, 13-14= 11-12=-53/79, 10-11 5-12=-77/21, 4-13=- 6-11=-127/83, 7-10=	02/92, 6-7=-70/36, 5 =-53/79, 12-13=-53/79  =-53/79, 8-10=-53/7 128/83, 3-14=-144/86 =-144/86	9) 9, 9 6, 10	<ul> <li>Provide mec</li> <li>bearing plate</li> <li>13, 43 lb upli</li> <li>uplift at joint</li> <li>This truss is</li> <li>International</li> </ul>	hanical connection e capable of withst ift at joint 14, 31 lb 10. designed in accor Residential Code	, n (by oth anding 3 o uplift at dance w sections	ers) of truss to 31 lb uplift at jo joint 11 and 4 ith the 2015 s R502.11.1 at	o pint I3 Ib nd		4	and a second	ORTH CA	ROUNT
1) Unbalance this design	ed roof live loads have n.	been considered for	1 <sup>.</sup> 1.	1) This truss de structural wo chord and 1/ the bottom cl	no referenced star sign requires that od sheathing be a 2" gypsum sheetr hord. d Industry Piggyb	a minim a minim applied d ock be a	um of 7/16" irectly to the to pplied directly	op to		11110		SEA 0363	L 22

ʻiggyt Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

January 11,2023

A. GILDIN

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V01	Valley	1	1	Job Reference (optional)	156098823

Run: 8.63 \$ Nov 19 2022 Print: 8.630 \$ Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:25 ID:akjmbqtR6ZLknth0qVn9nSynnxb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









 $\left| \right|$ 

Scale = 1:36

## Plate Offsets (X, Y): [2:0-3-0,Edge]

Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.00	тс	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL		10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%
BCDL LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES	2x6 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural we 1-9-4 oc pur Rigid ceiling bracing. (size) 1= Max Horiz 1= Max Grav 1= (lb) - Maximu Tension	10.0 bod shea lins, exc directly =1-9-0, 4 =148 (LC =-221 (Li =384 (LC um Com	Code athing directly applied cept end verticals. applied or 10-0-0 oc 12-1-9-0 2 12) C 17), 4=-478 (LC 12 2 12), 4=548 (LC 1) pression/Maximum	IRC2015/TPI2014 7) Provide mec bearing plate joint 1 and 4 8) This truss is International or R802.10.2 a LOAD CASE(S)	Matrix-MP hanical connection capable of withsta 78 lb uplift at joint 4 designed in accord Residential Code s do referenced stand Standard	(by oth nding 2 ance w sections dard AN	ers) of truss to 21 lb uplift at ith the 2015 R502.11.1 ar ISI/TPI 1.	nd				Weight: 21 lb	FT = 20%
TOP CHORD	1-2=-739/48	0, 2-3=-	158/0, 2-4=-734/929										
BOT CHORD	1-4=-186/32	1											
NOTES													
<ol> <li>Wind: ASG Vasd=95n B=45ft; L= MWFRS ( 3-0-4, Interight expor- for membe Lumber Di</li> <li>Truss desonly. For see Stand or consult</li> <li>Gable req</li> <li>Gable req</li> <li>Gable stuc</li> <li>This truss chord live</li> <li>* This truss on the bot 3-06-00 ta chord and</li> </ol>	CE 7-10; Vulte- nph; TCDL=6.0 -24ft; eave=4ft; directional) and erior (1) 3-0-4 to sed; end vertic ers and forces OL=1.60 plate signed for wind studs exposed lard Industry G qualified buildi uires continuou ds spaced at 2- has been desi load nonconcu is has been desi tom chord in al lb y 2-00-00 w	120mph Ipsf; BC Cat. II; C-C E; 5-4-4 z cal left a & MWFF grip DO loads ir to wind able Eno ng desig us bottor 0-0 oc. gned for irrent wil signed fi I areas u nbers.	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; terior (2) 0-0-4 to cone; cantilever left ar nd right exposed;C-C RS for reactions show L=1.60 the plane of the trus: (normal to the face), d Details as applicable gner as per ANSI/TPI n chord bearing. a 10.0 psf bottom th any other live loads or a live load of 20.0p where a rectangle fit between the bottom	nd n; s a, 1. 5. sf						M. HILLING		SEA 0363	ROCTINE 22 L L L L L L L L L L L L L L L L L L

ENGINEERING BY EREPACE A MITER ATTIL 818 Soundside Road Edenton, NC 27932

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 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	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V02	Valley	1	1	Job Reference (optional)	156098824

Run: 8,63 S Nov 19 2022 Print: 8,630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:25 ID:mhfl2IMQqjfkf8Z3K9kA\_AynpLL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:40.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 31 lb	FT = 20%
LUMBER			7) Provide	mechanical connection	on (by oth	ers) of truss	to					
TOP CHORD	2x6 SP No.2		bearing	plate capable of with	standing 3	6 lb uplift at	joint					
BOT CHORD	2x4 SP No.2		1 and 35	9 lb uplift at joint 4.								
WEBS	2x4 SP No.3		<ol><li>8) This trus</li></ol>	s is designed in acco	ordance w	ith the 2015						
BRACING			Internatio	onal Residential Cod	le sections	R502.11.1 a	and					
TOP CHORD	Structural wood she	athing directly applie	ed or R802.10	.2 and referenced sta	andard AN	ISI/TPI 1.						
	3-5-4 oc purlins, ex	cept end verticals.	LOAD CASE	(S) Standard								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
REACTIONS	(size) 1=3-5-0, 4	4=3-5-0										
	Max Horiz 1=160 (LO	C 9)										
	Max Uplift 1=-36 (LC	C 10), 4=-359 (LC 12	2)									
	Max Grav 1=264 (L0	C 12), 4=482 (LC 1)										
FORCES	(lb) - Maximum Com	pression/Maximum										
		450/0 0 4 570/044										
POT CHORD	1-2=-321/370, 2-3=-	150/0, 2-4=-575/01										
NOTEO	1-4=-03/192											
NOTES		(0										
1) Wind: AS	CE 7-10; Vuit=120mpn	(3-second gust)										
8=45ft  -	-24ft: eave=4ft: Cat II:	Evo B: Enclosed:										
MWFRS (	(directional) and C-C F	$x_{1}$ terior (2) 0-0-4 to										
3-3-8 Inte	erior (1) $3-3-8$ to $7-0-4$	zone: cantilever left	and									
right expo	sed : end vertical left a	ind right exposed:C-	C									
for memb	ers and forces & MWF	RS for reactions sho	wn;								IN TH CA	Roill
Lumber D	OL=1.60 plate grip DC	L=1.60								N	A	······································
2) Truss de	signed for wind loads in	n the plane of the tru	ISS						/	55	FEE	Divisia
only. For	studs exposed to wind	(normal to the face)	),							Ŵ		LAN
see Stand	ard Industry Gable En	d Details as applical	ole,						1	1		
or consult	qualified building desi	gner as per ANSI/TF	ขา.								SFA	1 : =
3) Gable req	ures continuous botto	m chord bearing.							=			
4) (Hable stu	as spaced at 6-0-0 oc								_	•	0.565	· · · ·

- aced
- 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 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.





Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V03	Valley	1	1	Job Reference (optional)	156098825

5-1-0

5-1-0

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:25 ID:mhfl2IMQqjfkf8Z3K9kA\_AynpLL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3

5-1-4

8-8-0

3-7-0

Page: 1

2x4 II 2 8-8-4 8 ø 7 12 12 1 4-0-C 4  $\otimes$ 

## 3x4 🎣



3x6 II

Scale = 1:48.3

Loading	(psf)	Spacing	2-0-0	CSI	0.54	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (root)	20.0	Plate Grip DOL	1.00		0.51	Vert(LL)	n/a	-	n/a	999	WI120	244/190
PCU	10.0	Lumber DOL Bon Stroop Inor	1.15 VES		0.19	Ven(CT)	n/a	-	n/a	999		
BCLL	0.0	Code	1 ES IRC2015/TPI201	4 Matrix-MP	0.00		0.00	4	n/a	n/a	Weight: 41 lb	FT - 20%
BODL	10.0	Coue	11(02013/111201								Weight. 41 lb	11 = 2078
			7) Provide	e mechanical connect	tion (by oth	ers) of truss	to					
TOP CHORD	2x6 SP No.2		ioint 4	plate capable of with	istanding a	24 ID UPIIIT a	L					
BOICHORD	2X4 SP No.2		8) This tri	iss is designed in acc	ordance w	ith the 2015						
WEBS	2X4 SP N0.3		Interna	tional Residential Co	de sections	R502 11 1 a	and					
BRACING	0 (m		R802.1	0.2 and referenced s	tandard AN	ISI/TPI 1.						
TOP CHORD	5 1 4 oc purling	eathing directly appl	LOAD CAS	E(S) Standard								
	Bigid ceiling direct	v applied or 10-0-0 c										
BOT ONORD	bracing											
REACTIONS	(size) 1=5-1-0	4=5-1-0										
	Max Horiz 1=247 (I	C 9)										
	Max Uplift 4=-324 (	LC 12)										
	Max Grav 1=252 (L	C 9), 4=526 (LC 17)	)									
FORCES	(lb) - Maximum Co	mpression/Maximum	, 1									
	1-2428/405 2-3-	-158/0 2-4592/52	7									
BOT CHORD	) 1-4=-70/139	- 100/0, 2 4= 002/02	.1									
NOTES												
1) Wind AS	CE 7-10. Vult=120mp	h (3-second aust)										
Vasd=95	mph: TCDL=6.0psf: B	CDL=6.0psf: h=25ft:										
B=45ft; L	=24ft; eave=4ft; Cat. I	; Exp B; Enclosed;										
MWFRS	(directional) and C-C I	Exterior (2) 0-0-4 to										
3-0-4, Inte	erior (1) 3-0-4 to 8-8-4	zone; cantilever left	and									117
right expo	osed ; end vertical left	and right exposed;C	-C								11111 01	111, IL
for memb	pers and forces & MWI	RS for reactions sh	own;								"TH UP	HO UN
Lumber D	DOL=1.60 plate grip D	OL=1.60								X	Miszico	6.9/A.1
2) Truss_de	signed for wind loads	in the plane of the tr	uss						/	22	inter	Winn
only. For	studs exposed to win	d (normal to the face	e),						C	Ú		W
see Stand	dard Industry Gable E	nd Details as applica	able,						-	6	:*	

- or consult qualified building designer as per ANSI/TPI 1. 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 6-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



# 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V04	Valley	1	1	Job Reference (optional)	156098826

6-9-0

6-9-0

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:26 ID:mhfl2IMQqjfkf8Z3K9kA\_AynpLL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

> 10-4-0 3-7-0

Page: 1

2x4 II



## 6-9-0

\_

Scale = 1:57.7

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015	/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.72 0.12 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 56 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	CDL     10.0     Code     I       UMBER     OP CHORD     2x6 SP No.2     OT CHORD     2x4 SP No.2       VEBS     2x4 SP No.3     THERS     2x4 SP No.3       RACING     OP CHORD     Structural wood sheathing directly applied, except end verticals.       OT CHORD     Rigid ceiling directly applied.       EACTIONS     (size)     1=6-9-0, 5=6-9-0, 6=6-9-0 Max Horiz       Max Uplift     1=-9 (LC 10), 5=-371 (LC 12) Max Grav     1=202 (LC 9), 5=538 (LC 17), 6=192 (LC 17)       ORCES     (lb) - Maximum Compression/Maximum Tension				as been designed in chord in all areas by 2-00-00 wide will by other members, hanical connection capable of withsta blift at joint 5. designed in accord Residential Codes and referenced stan sign requires that i od sheathing be ap 2" gypsum sheetro hord.	for a liv s where Il fit betw with BC (by oth anding 9 dance w sections dard AN a minim pplied di pock be ap	e load of 20.0 a rectangle reen the botto DL = 10.0psf ers) of truss t Ib uplift at joint th the 2015 R502.11.1 a SI/TPI 1. um of 7/16" rectly to the t oplied directly	opsf om o int 1 nd op v to					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	20		Standard								
TOP CHORD	1-2=-436/410, 2-3=-4 3-5=-593/546	422/418, 3-4=-158/0,											
BOT CHORD WEBS	1-6=-105/162, 5-6=-9 2-6=-382/20	93/101											
NOTES 1) Wind: ASC Vasd=95n B=45ft: L=	CE 7-10; Vult=120mph nph; TCDL=6.0psf; BCI -24ft; eave=4ft; Cat. II:	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed:										mmm	1000

- MWFRS (directional) and C-C Exterior (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 10-4-4 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) 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. 3)

Gable studs spaced at 6-0-0 oc. 4)

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





Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V05	Valley	1	1	Job Reference (optional)	156098827

8-5-0

8-5-0

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:26 ID:mhfl2IMQqjfkf8Z3K9kA\_AynpLL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-5-4

12-0-0

3-7-0 5 Page: 1

2x4 II 4 11 4x5 🖌 12-0-4 2x4 u 3 2 10 12 12

0-0-7

#### 6 $\times$ 7 3x6 II 3x4 🥠 2x4 II 8-5-0

Scale = 1:65.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 67 lb	FT = 20%
		•	6) * This tru	uss has been designe	d for a liv	e load of 20.0	Opsf					
TOP CHORD	2x6 SP No 2		on the b	ottom chord in all area	as where	a rectangle	-1					
BOT CHORD	2x4 SP No 2		3-06-00	tall by 2-00-00 wide w	vill fit betv	veen the bott	om					
WEBS	2x4 SP No 2		chord an	d any other members	s. with BC	DL = 10.0ps	f.					
OTHERS	2x4 SP No 3		7) Provide	mechanical connection	on (by oth	ers) of truss t	to					
DRACING	274 01 110.0		bearing	plate capable of withs	tanding 3	46 lb uplift at	t					
BRACING	o		ioint 6 ar	nd 15 lb uplift at joint	1.		-					
TOP CHORD	6-0-0 oc purlins. ex	eathing directly applie cept end verticals.	ed or 8) This trus	s is designed in acco	rdance w	ith the 2015						
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	c Internation R802.10	onal Residential Code 2 and referenced sta	e sections Indard AN	8 R502.11.1 a ISI/TPI 1.	and					
REACTIONS	(size) 1=8-5-0, 6	6=8-5-0, 7=8-5-0	LOAD CASE	(S) Standard								
	Max Horiz 1=346 (LC	C 9)										
	Max Uplift 1=-15 (LC	C 10), 6=-346 (LC 9)										
	Max Grav 1=243 (L0	C 9), 6=552 (LC 17).										
	7=362 (L0	C 17)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=-506/496, 2-4=- 4-6=-591/475	429/427, 4-5=-158/0	),									
BOT CHORD	1-7=-119/191, 6-7=-	115/125										
WEBS	2-7=-437/67											
NOTES												
1) Wind: AS	CE 7-10; Vult=120mph	(3-second gust)										
Vasd=95r	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft;										
B=45ft; L=	=24ft; eave=4ft; Cat. II;	Exp B; Enclosed;									IN TH CA	Rollin
MWFRS (	(directional) and C-C E	xterior (2) 0-0-4 to								1	R	n Linia
3-0-4, Inte	erior (1) 3-0-4 to 12-0-4	zone; cantilever left	t						/	5.	U FESS	and the
and right	exposed ; end vertical I	left and right							4			A AL
exposed;	C-C for members and f	orces & MWFRS for									:2	K: 3
reactions	shown; Lumber DOL="	1.60 plate grip							-		054	n 12
DOL=1.60	C										SEA	L <u>1</u> E .
2) Truss de	signed for wind loads ir	n the plane of the tru	SS						= =		0363	22 E
only. For	studs exposed to wind	(normal to the face)	),						-		0505	
see Stand	dard Industry Gable En	d Details as applicat	ole,						-		•	1 - E
or consult	qualified building design	gner as per ANSI/TF	ข 1.						5	-	·	airs
3) Gable reg	uires continuous botto	m chord bearing.								25	NGIN	FEIRAN
4) Gable stu	ds spaced at 6-0-0 oc.	0								11.	7/0	E. S.
5) This trucs	has been designed for	r a 10.0 pcf bottom								1.1	I CA O	IL Dr.N

- Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 6-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

818 Soundside Road Edenton, NC 27932

GI 

January 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V06	Valley	1	1	Job Reference (optional)	156098828

10-1-0

10-1-0

11

10-1-0

3x6 II

12

3x6 II

16

13

3x6 🛛

4x5 🍫

12<sup>12</sup> 2

13-8-4

0-0-4

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8,63 S Nov 19 2022 Print: 8,630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:26 ID:mhfl2IMQqjfkf8Z3K9kA\_AynpLL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

> 13-8-0 -

3-7-0 8

3x4 **I** 

Page: 1

2x4 🛛 17<sup>7</sup> 6 4x5 🍫 2x4 5 10-1-4 4 2x4 II 3

9

4x6 🛛

10

3x6 II

Scale = 1:76.2

Plate Offsets (X, Y): [9:Edge,0-3-8]

Loading         (psf)         S           TCLL (roof)         20.0         F           TCDL         10.0         L           BCLL         0.0*         F           BCDL         10.0         C	Spacing2-Plate Grip DOL1.Lumber DOL1.Rep Stress IncrYICodeIR	-0-0 .00 .15 /ES RC2015/TPI2014	CSI TC 0.6 BC 0.0 WB 0.3 Matrix-MS	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 111 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD 2x6 SP No.2 BOT CHORD 2x8 SP No.2 WEBS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheath 6-0-0 oc purlins, excep BOT CHORD Structural wood sheath 6-0-0 oc purlins, excep BOT CHORD Rigid ceiling directly ap bracing. WEBS 1 Row at midpt 7-4 REACTIONS (size) 1=10-1-0, 9= 11=10-1-0, 1 Max Horiz 1=394 (LC 9 Max Uplift 1=-86 (LC 10 10=-68 (LC - 12=-78 (LC - Max Grav 1=283 (LC 9 10=177 (LC 12=174 (LC FORCES (lb) - Maximum Compri- TOP CHORD 1-2=-612/588, 2-3=-57 5-6=-406/385, 6-7=-40 7-9=-586/645 BOT CHORD 1-13=-167/187, 12-13= 11-12=-132/151, 10-11 9-10=-135/115, 5-11=- 3-12=-159/106, 2-13=- NOTES	thing directly applied or apt end verticals. ipplied or 6-0-0 oc '-9 )=10-1-0, 10=10-1-0, 12=10-1-0, 13=10-1-0 9) 10, 9=-429 (LC 9), -11, 11=-41 (LC 12), -12), 11=-183 (LC 17), -12), 11=-183 (LC 17), -17), 13=182 (LC 1) ression/Maximum 71/545, 3-5=-485/461, 06/435, 7-8=-158/0, i=-131/150, 1=-132/151, -159/109, -121/62	<ol> <li>Wind: ASCE Vasd=95mph B=45ft; L=24 MWFRS (dire 3-0-4, Interior and right exp exposed;C-C reactions sho DOL=1.60</li> <li>Truss design only. For stu see Standard or consult qui or consult qui 3) Gable require</li> <li>Gable studs s</li> <li>This truss has chord live loa</li> <li>* This truss has chord live loa</li> <li>* This truss has chord and an</li> <li>Provide mech bearing plate joint 9, 86 lb uplift at joint 5</li> <li>This truss is 6</li> <li>International R802.10.2 ar</li> </ol>	7-10; Vult=120mph (3- x; TCDL=6.0psf; BCDL= ft; eave=4ft; Cat. II; Exp actional) and C-C Exter r (1) 3-0-4 to 13-8-4 zor osed ; end vertical left is for members and force bown; Lumber DOL=1.60 and for wind loads in the ds exposed to wind (not d Industry Gable End D alified building designe as continuous bottom cl spaced at 2-0-0 oc. s been designed for a ' ad nonconcurrent with a as been designed for a ' ad nonconcurrent with a n chord in all areas whe y 2-00-00 wide will fit b y other members. hanical connection (by - capable of withstandin uplift at joint 1, 68 lb up 11 and 78 lb uplift at joid designed in accordanced standard Standard	econd gust) 6.0psf; h=25ft; B; Enclosed; or (2) 0-0-4 to e; cantilever left nd right s & MWFRS for plate grip plane of the tru mal to the face) tails as applicat as per ANSI/TF ord bearing. 0.0 psf bottom ny other live load give load of 20.0 re a rectangle etween the botto thers) of truss to g 429 lb uplift at ift at joint 10, 41 tt 12. with the 2015 ns R502.11.1 at ANSI/TPI 1.	ss , ole, , lo sf m o lb				SEA 0363	ROCINE L 22 BERIN

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 **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



C A. GI The Channer January 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V07	Valley	1	1	Job Reference (optional)	156098829

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:27 ID:k5kwPlylauaKEexnNHy0zwynpkP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



1-8-8

Scale =	1:36
---------	------

Plate Offsets (X, Y): [2:0-3-0,Edge]

Loading         (psf)           TCLL (roof)         20.0           TCDL         10.0           BCLL         0.0*           BCDL         10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/TPI2	CSI TC BC WB 2014 Matrix-MP	0.52 0.22 0.00	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 20 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD 2x6 SP No.2 30T CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING TOP CHORD Structural wood she 1-8-12 oc purlins, e 30T CHORD Rigid ceiling directly bracing. REACTIONS (size) 1=1-8-8, . Max Horiz 1=149 (Lf Max Uplift 1=-235 (L Max Grav 1=398 (Lf FORCES (lb) - Maximum Com Tension TOP CHORD 1-2=-764/497, 2-3=- 30T CHORD 1-2=-764/497, 2-3=- 30T CHORD 1-4=-197/334 NOTES 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BC B=45ft; L=24ft; eave=4ft; Cat. II; MWFRS (directional) and C-C E 3-0-4, Interior (1) 3-0-4 to 5-4-4. right exposed ; end vertical left a for members and forces & MWF Lumber DOL=1.60 plate grip DC 2) Truss designed for wind loads i only. For studs exposed to wind see Standard Industry Gable En see Standard Industry Gable for chord live load nonconcurrent w 6) * This truss has been designed fo or the bottom chord in all areas 3-06-00 tall by 2-00-00 wide will chord and any other members.	eathing directly applie except end verticals. <sup>1</sup> applied or 10-0-0 oc 4=1-8-8 C 12) C 17), 4=-493 (LC 12 C 12), 4=562 (LC 1) 10 pression/Maximum 160/0, 2-4=-760/967 (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; xterior (2) 0-0-4 to zone; cantilever left a and right exposed;C-C RS for reactions show DL=1.60 n the plane of the trust (normal to the face), d Details as applicab gner as per ANSI/TP m chord bearing. r a 10.0 psf bottom ith any other live load for a live load of 20.0p where a rectangle fit between the botton	7) Pro bea join 8) This Inte d or R8 LOAD ( 2) 2) 2) 10 10 10 10 10 10 10 10 10 10 10 10 10	vide mechanical connect ring plate capable of with 1 and 493 lb uplift at joi s truss is designed in acc rnational Residential Co 2.10.2 and referenced s CASE(S) Standard	tion (by oth standing 2 nt 4. cordance wi de sections tandard AN	ers) of truss to 35 lb uplift at ith the 2015 .R502.11.1 ar ISI/TPI 1.	) nd				SEA 0363	RO 22 EFR. 11,2023	and an



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V08	Valley	1	1	Job Reference (optional)	156098830

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:27 ID:k5kwPlylauaKEexnNHy0zwynpkP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3-4-8

Scale = 1:40.9

Loading	(psf)	Spacing	2-0-0		ся		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015	5/TPI2014	Matrix-MP							Weight: 31 lb	FT = 20%
LUMBER			7)	Provide mec	hanical connectior	n (by oth	ers) of truss t	to					
TOP CHORD	2x6 SP No.2		,	bearing plate	e capable of withsta	anding 4	2 lb uplift at j	joint					
BOT CHORD	2x4 SP No.2			1 and 366 lb	uplift at joint 4.								
WEBS	2x4 SP No.3		8)	This truss is	designed in accord	dance w	th the 2015						
BRACING				International	Residential Code	sections	R502.11.1 a	and					
TOP CHORD	Structural wood sh	eathing directly appli	ed or	R802.10.2 a	nd referenced star	idard AN	ISI/TPI 1.						
	3-4-12 oc purlins,	except end verticals.	LC	AD CASE(S)	Standard								
BOT CHORD	Rigid ceiling direct	y applied or 10-0-0 o	С										
DEACTIONS	(ai7a) 1-2.4.9	4 2 4 9											
REACTIONS	(SIZE) 1=3-4-0, Max Horiz 1=160 (I	4=3-4-0 C 0)											
	Max I Inlift 1=-42 (I	C 17) 4=-366 (I C 12	2)										
	Max Grav 1=270 (L	.C 12), 4=488 (LC 1)	-)										
FORCES	(lb) - Maximum Co	npression/Maximum											
	Tension												
TOP CHORD	1-2=-518/396, 2-3=	-160/0, 2-4=-590/613	3										
BOT CHORD	1-4=-70/209												
NOTES													
1) Wind: AS	CE 7-10; Vult=120mp	h (3-second gust)											
Vasd=95r	nph; TCDL=6.0psf; B	CDL=6.0psf; h=25ft;											
B=45ft; L=	=24ft; eave=2ft; Cat. I	; Exp B; Enclosed;	0.0										
MWFRS (	directional) and C-C (	orner (3) 0-0-4 to 3-	3-0, abt										
Exterior (2	2) 3-3-0 10 7-0-4 Zone	canulever left and ri	gni										111.



exposed ; end vertical left and right exposed;C-C for

members and forces & MWFRS for reactions shown;

- or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 3) Gable studs spaced at 6-0-0 oc. 4)
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

ORT ALL DAVING THE UTITITITI I SEAL 036322 GI 111111111 January 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V09	Valley	1	1	Job Reference (optional)	156098831

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:27 ID:k5kwPlylauaKEexnNHy0zwynpkP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:48.3

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/	TPI2014	<b>CSI</b> TC BC WB Matrix-MP	0.52 0.19 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 41 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP No. 2x4 SP No. 2x4 SP No. Structural v 5-0-12 oc p Rigid ceiling bracing. (size) 1 Max Horiz 1 Max Uplift 4 Max Grav 1	2 2 3 vood shea urlins, ex g directly =5-0-8, 4 =247 (LC =-329 (L1 =-329 (L1 =-325) (L2	athing directly applied kcept end verticals. applied or 10-0-0 oc =5-0-8 2 9) C 12) 2 9. 4=529 (LC 17)	7) 8) d or <b>LO</b> A	Provide mect bearing plate joint 4. This truss is of International R802.10.2 ar AD CASE(S)	nanical connectior capable of withst designed in accorr Residential Code nd referenced star Standard	n (by oth anding 3 dance wi sections ndard AN	ers) of truss t 29 lb uplift at th the 2015 R502.11.1 a SI/TPI 1.	o					
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=95m B=45ft; L= MWFRS (i Exterior (2	(lb) - Maxim Tension 1-2=-421/4: 1-4=-69/150 CE 7-10; Vult= hph; TCDL=6. :24ft; eave=2f directional) ar 2) 3-0-4 to 8-8	anum Com 31, 2-3=- 31, 2-3	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; ormer (3) 0-0-4 to 3-0 cantilever left and rig	-4, ht										



exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;

- or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 3)
- Gable studs spaced at 6-0-0 oc. 4)
- This truss has been designed for a 10.0 psf bottom 5) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

O Vinneeren VIIIIIIIIIII SEAL 036322 GI mmm January 11,2023

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V10	Valley	1	1	Job Reference (optional)	156098832

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:28 ID:k5kwPlylauaKEexnNHy0zwynpkP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:57.7

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.85 0.10 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 56 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 1=6-8-8, 5 Max Horiz 1=297 (LC Max Uplift 1=-8 (LC Max Grav 1=203 (LC 6=182 (LC	athing directly applie cept end verticals. applied or 10-0-0 oc 5=6-8-8, 6=6-8-8 C 9) 10), 5=-379 (LC 12) C 18), 5=505 (LC 17) C 3)	6) 7) d or 8) LG	* This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate and 379 lb u This truss is International R802.10.2 ar DAD CASE(S)	as been designe n chord in all are y 2-00-00 wide w y other member: capable of withs olift at joint 5. designed in acco Residential Cod- nd referenced sta Standard	ed for a livv as where will fit betw s. on (by oth- standing 8 ordance wi e sections andard AN	e load of 20. a rectangle veen the bott ers) of truss : Ib uplift at jc th the 2015 R502.11.1 a ISI/TPI 1.	Opsf om to tint 1 and					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-467/438, 2-3=-/ 3-5=-623/552	432/453, 3-4=-160/0											
BOT CHORD	1-6=-114/184, 5-6=- 2-6=-384/22	93/122											

#### NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) 1) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-4 to 3-0-4, Exterior (2) 3-0-4 to 10-4-4 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) 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. 3) Gable requires continuous bottom chord bearing.

Gable studs spaced at 6-0-0 oc. 4)

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

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 **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



G 400000 January 11,2023

MILLIN

CAR

SEAL

036322

 $\cap$ 

VIIIIIIIIII

ORT

COLOR DANNING

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	
GHWISAR WUA	V11	Valley	1	1	Job Reference (optional)	156098833

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:28 ID:k5kwPlylauaKEexnNHy0zwynpkP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:65.1

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.99 0.21 0.12	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 67 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 1=8-4-8, 6 Max Horiz 1=346 (LC Max Uplift 1=-15 (LC Max Grav 1=243 (LC 7=355 (LC	athing directly appli cept end verticals. applied or 10-0-0 o 5=8-4-8, 7=8-4-8 2 9) 10), 6=-351 (LC 9) 2 9), 6=-557 (LC 17) 2 17)	6) 7) ed or 8) oc <b>L</b> (	* This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate joint 6 and 19 This truss is International R802.10.2 ar DAD CASE(S)	as been designe n chord in all are by 2-00-00 wide v y other member hanical connectii c capable of with 5 lb uplift at joint designed in acco Residential Cod nd referenced sta Standard	ed for a liv as where will fit betw s, with BC on (by oth standing 3 1. ordance wi e sections andard AN	e load of 20. a rectangle veen the bott DL = 10.0ps ers) of truss 51 lb uplift a th the 2015 R502.11.1 a ISI/TPI 1.	Opsf tom f. to t t					
FORCES	(Ib) - Maximum Compression/Maximum Tension												
	4-6=-621/479												
WEBS	CHORD 1-7=-129/213, 6-7=-114/149 3S 2-7=-437/110 TES												

- Wind: ASCE 7-10; Vult=120mph (3-second gust) 1) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-4 to 3-0-4, Exterior (2) 3-0-4 to 12-0-4 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) 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. 3) Gable requires continuous bottom chord bearing.

Gable studs spaced at 6-0-0 oc. 4)

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

Vanananan 1111111111 SEAL 036322 GI 400000 January 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA		
GHWISAR WUA	V12	Valley	1	1	Job Reference (optional)	156098834	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Jan 11 15:35:28 ID:CIIIceywLCiBroW\_x\_TGW7ynpkO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





### Scale = 1:72.5

Plate Offsets (X, Y): [6:Edge,0-3-8]

Loadi	ng	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	(roof)	20.0	Plate Grip DOL	1.00		TC	0.73	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL		10.0	Lumber DOL	1.15		BC	0.30	Vert(CT)	n/a	-	n/a	999			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.17	Horz(CT)	0.00	6	n/a	n/a			
BCDL		10.0	Code	IRC2015/	/TPI2014	Matrix-MS							Weight: 79 lb	FT = 20%	
LUMB	ER			5)	This truss ha	s been designed	for a 10.0	) psf bottom							
TOP C	CHORD	2x6 SP No.2			chord live loa	ad nonconcurrent	with any	other live loa	ids.						
BOT C	CHORD	2x4 SP No.2		6)	* This truss h	ias been designe	d for a liv	e load of 20.0	Opsf						
WEBS	3	2x4 SP No.2			on the botton	n chord in all area	as where	a rectangle							
OTHE	RS	2x4 SP No.3			3-06-00 tall b	by 2-00-00 wide will fit between the bottom									
BRAC	ING				chord and an	y other members	s, with BC	DL = 10.0pst	f.						
TOP CHORD Structural wood sheathing directly applied or 6.0.0 as purlies, except and vorticals															
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing directly applied or 6-0-															
WEBS	3	1 Row at midpt	4-6		International	Residential Code	e sections	R502.11.1 a	and						
REAC		(size) 1–10-0-8	3 6-10-0-8 7-10-0-8	1	R802.10.2 ar	nd referenced sta	ndard AN	ISI/TPI 1.							
NEA0	mono	(320) 1=1000 Max Horiz 1=396 (I	(0, 0)	LO/	AD CASE(S)	Standard									
		Max I Inlift 1=-24 (I	C 10) 6=-339 (I C 9)												
		Max Grav 1=291 (I	$(C \ 9) \ 6=575 \ (I \ C \ 17)$												
		7=491 (I	_C 17)												
FORC	FS	(lb) - Maximum Co	moression/Maximum												
1 0110	20	Tension													
TOP C	HORD	1-2=-639/630, 2-4=	-447/464, 4-5=-160/0	).											
		4-6=-596/463		,											
BOT C	HORD	1-7=-133/224. 6-7=	-126/174												
WEBS	3	2-7=-438/223												CTTC:	
NOTE	s														
1) W	ind AS	CE 7-10: Vult-120mp	h (3-second aust)										IN TH UA	ROUL	
Vasd=95mph: TCDL = 6 (nost: BCDL = 6 (nost: BCDL = 25ft)							111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
B=45ft: $I=24ft$ : eave=2ft: Cat. II: Exp. B: Enclosed:											/	33	EFOS	A. and	
MWFRS (directional) and C-C Corner (3) 0-0-4 to 3-0-4											4	Ì		KAUT	
Exterior (2) 3-0-4 to 13-8-4 zone; cantilever left and right											-		Q.		
exposed : end vertical left and right exposed:C-C for											-	:	SEA	1 1 2	
members and forces & MWFRS for reactions shown:							- : =								
Lumber DOL=1.60 plate grip DOL=1.60												:	0363	22 : =	
2) T	russ des	signed for wind loads	in the plane of the tru	ISS							-			1 5	
or	nly. For	studs exposed to win	d (normal to the face)	),									1	1 - S - S -	
se	e Stand	lard Industry Gable E	nd Details as applical	ole,								21	N. ENO	-ERI'N S	
or	consult	qualified building des	signer as per ANSI/TF	기 1.								1	S, GIN	Et. A.S	
3) Ga	able req	uires continuous bott	om chord bearing.									1	C .	BEN	
4) Gable stude spaced at 6-0-0 oc													A G		

- see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 6-0-0 oc.

A. GILDIN January 11,2023

A. GILB



