

# EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING. SHEATHING IS FLUSH TO FACE OF FOUNDATION.



Trenco RE: Q2200855 - Garman Homes - Honeysuckle A & B 818 Soundside Rd Site Information: Edenton, NC 27932 Project Customer: GARMAN HOMES Project Name: Lot/Block: Subdivision: SERENITY Model: HONEYSUCKLE Address: City: FUQUAY-VARINA State: NC General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4 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 12345678910 154309745 F201 9/21/22 154309746 F202 F203 F204 154309747 154309748 154309749 F205 154309750 F206 F207 154309751 K201 154309752 154309753 K202 9/21/22

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.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022.

**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 per ANSI/TPI 1, Chapter 2.



Gilbert, Eric

September 21,2022

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A & B	
Q2200855	F201	Floor	1	1	Job Reference (optional)	154309745
Carolina Structural Systems, LLC	Ether. NC - 27247.	Run: 8.43 S. Jan. 6.2	022 Print: 8.4	30 S Jan 6 3	2022 MiTek Industries, Inc. Wed Sep 21 07:07:45	Page: 1



```
Scale = 1:34.3
```

# Plate Offsets (X, Y): [7:0-3-8,Edge], [8:Edge,0-1-8], [17:0-1-8,0-0-7], [18:0-1-8,0-0-7]

Loa TCI TCI BCI	ading _L DL LL	(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 NO		CSI TC BC WB	0.70 0.77 0.42	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.19 0.03	(loc) 12-13 12-13 8	l/defl >999 >902 n/a	L/d 480 240 n/a	PLATES MT20	<b>GRIP</b> 244/190	E 110/E
BUI	DL	5.0	Code	IRC2015	/1912014	Maurix-S							weight. 76 lb	FT = 20%	F, II%E
LUI TOI BO <sup>-</sup> WE OTI BR TOI BO <sup>-</sup>	MBER P CHORD T CHORD BS HERS ACING P CHORD	2x4 SP No.2(flat) 2x4 SP No.1(flat) 2x4 SP No.3(flat) 2x4 SP No.2(flat) Structural wood shea 6-0-0 oc purlins, exa Riaid ceiling directly	athing directly applie cept end verticals. applied or 10-0-0 oc	6) LO 1) d or	CAUTION, D Dead + Floo Plate Increas Uniform Loa Vert: 8-11 Concentrate Vert: 7=-0	to not erect truss b Standard or Live (balanced): ase=1.00 ads (lb/ft) 5=-8, 1-7=-80 ed Loads (lb) 4923	ackwarc	ls. · Increase=1.	00,						
		bracing.													
RE/	ACTIONS	(size) 8=0-3-8, 1 Max Grav 8=5538 (L	15=0-3-8 _C 1), 15=610 (LC 1)												
FOI	RCES	(lb) - Maximum Com	pression/Maximum												
тоі	P CHORD	1-15=-34/0, 7-8=-55 2-3=-1235/0, 3-4=-16 5-6=-1645/0, 6-7=-72	33/0, 1-2=-2/0, 883/0, 4-5=-2023/0, 20/0												
BO	T CHORD	14-15=0/750, 13-14= 11-12=0/2023, 10-1 8-9=0/0	=0/1697, 12-13=0/20 1=0/2023, 9-10=0/13	23, 23,											
WE	BS	7-9=0/890, 2-15=-93 2-14=0/631, 6-10=0/ 5-10=-559/0, 3-13=0 4-12=-140/78, 5-11=	89/0, 6-9=-784/0, /425, 3-14=-601/0, )/298, 4-13=-349/22, 52/167										TH CA	RO	
NO	TES	,										A	A	in sin	11
1)	Unbalance	d floor live loads have	been considered for	r							4	it	PICE	No.	
2)	All plates a	are 3x3 MT20 unless o	therwise indicated.								-		.4		V E
3)	This truss i Internation R802.10.2	is designed in accorda al Residential Code se and referenced stand	ance with the 2015 ections R502.11.1 ar ard ANSI/TPI 1.	nd									SEA 0363	L 22	
4)	Load case( designer m correct for	(s) 1 has/have been m nust review loads to ve the intended use of th	odified. Building erify that they are is truss.									1.	· · · · · · · · · · · · · · · · · · ·	ER. X	ALL NO.
5)	Recommer 10-00-00 o	nd 2x6 strongbacks, on the card fastened to eac	n edge, spaced at h truss with 3-10d										A G	ILBER	LT.

- 4) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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.

818 Soundside Road Edenton, NC 27932

G minimum

September 21,2022

Page: 1

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A & B	
Q2200855	F202	Floor	9	1	Job Reference (optional)	154309746

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Sep 21 07:07:47 ID:d\_sNvpP86ZZv6IWPLINC\_TzDjNt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



14-3-0 14-3-0

Scale = 1:28

				-								
Loading TCLL TCDL	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL	1-7-3 1.00 1.00	CSI TC BC	0.58 0.94	DEFL Vert(LL) Vert(CT)	in -0.16 -0.21	(loc) 12-13 12-13	l/defl >999 >813	L/d 480 240	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code	YES IRC2015/TPI2014	WB Matrix-S	0.30	Horz(CT)	0.03	9	n/a	n/a	Weight: 74 lb	FT = 20%F, 11%E
LUMBER		•		•								
TOP CHORD BOT CHORD WEBS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
	Structural wood cho	athing directly applic	d or									
TOP CHORD	6-0-0 oc purlins, ex	cept end verticals.	0.01									
BOT CHORD	Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 11	applied or 10-0-0 oc -12.	:									
REACTIONS	(size) 9=0-3-8, 1 Max Grav 9=616 (LC	15=0-3-8 C 1), 15=611 (LC 1)										
FORCES	(lb) - Maximum Com	pression/Maximum										
	l ension	/0 1-2=-2/0										
	2-3=-1238/0, 3-4=-1 5-6=-2020/0, 6-7=-1	887/0, 4-5=-2020/0, 222/0, 7-8=0/0										
BOT CHORD	14-15=0/751, 13-14=	=0/1702, 12-13=0/20	20, 8									
WEBS	7-9=-951/0, 2-15=-9	39/0, 7-10=0/603,	0									
	2-14=0/634, 6-10=-5	596/0, 3-14=-604/0,										
	6-11=0/573, 3-13=0/ 4-12=-119/57, 5-11=	/305, 4-13=-341/17, 232/0									mmm	unn.
NOTES											"TH CA	Rollin
1) Unbalance this design	ed floor live loads have n.	been considered fo	r							N. N.	OREESS	INN'S
2) All plates a	are 3x3 MT20 unless c	otherwise indicated.							4		:0	
Inis truss Internation R802.10.2	al Resigned in accordanal Residential Code se and referenced stand	ance with the 2015 ections R502.11.1 ar ard ANSI/TPI 1.	nd						1111		SEA	L
4) Recomme 10-00-00 ( (0.131" X	end 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks	n edge, spaced at h truss with 3-10d to be attached to wa	alls						LITTLE .		0363	22
at their ou	ter ends or restrained l	by other means.								20	N.ENO.	ERIAS
5) CAUTION	, Do not erect truss ba	ckwards.								1	P, GIN	E.F. ER IN
LOAD CASE(	S) Standard										A. G	ILBLUU

September 21,2022



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A & B	
Q2200855	F203	Floor	10	1	Job Reference (optional)	154309747





MT18HS 3x10 FP

3x3 =

0-0	-8		
Ŭ	•	16-11-8	
	<u>.</u>	16-11-0	
0-0	-8		

#### Scale = 1:33

Loading         (pd)         Specing         1-7.3 Plate Grip DOL         CSI         DEFL (without)         in         (bo)         Uet II, U         Out         U           TOLL         4.00         Lumber DOL         1.00         BC         0.34         Vert(L1)         -0.21         15.16         >960         444199           BCLL         0.0         Rp Stress Incr         YES         0.35         Vert(CT)         -0.25         1.2         n/a         n/a           DOL         5.0         Code         InC2015/TPI2014         Warks-S         Vert(CT)         -0.25         1.2         n/a         n/a         N/a           DOP CHORD         2x4 SP No.2(Plat)         Vert(CT)         0.05         1.2         n/a         N/a <th></th>													
BCLL         0.0         Rep Bress Inor         YES         WB         0.39         Horz(CT)         0.05         12         n/a         n/a           BCDL         5.0         Code         IRC20157TPI2014         Matrix-S         Matrix-S         10         Meight: 85 lb         FT = 20%F, 11%E           LUMBER         TOP CHORD         244 SP No.2(ftal)         Keight: 85 lb         FT = 20%F, 11%E           WEBS         244 SP No.3(ftal)         Keight: 85 lb         FT = 20%F, 11%E           BRACING         TOP CHORD         Structural wood sheathing directly applied or 0.0-0 oc bracing.         FREATIONS (isca)         120-3.4, 20-3.3, 20-0.3-8           BOT CHORD         243 SP No.2(ftal)         Structural wood sheathing directly applied or 0.0-0 oc bracing.         FREATIONS (isca)         120-3.4, 20-3.4, 20-3.3, 0           FORCES         Max Grav 122-730, (1C 1), 20-730, (1C 1)         FORCES         FORCES         Keine 10, 12-3.30, 70-730, 12-4.20, 22-3.4, 14-9.20, 22-3.4, 14-9.20, 22-3.4, 14-9.20, 22-3.4, 14-9.20, 22-3.4, 14-9.20, 12-3.4, 21-9.20, 22-3.4, 14-9.20, 12-3.4, 21-9.20, 22-3.4, 14-9.20	Loading TCLL TCDL	(psf) 40.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL	1-7-3 1.00 1.00	CSI TC BC	0.34 0.80	<b>DEFL</b> Vert(LL) Vert(CT)	in -0.21 -0.29	(loc) 15-16 15-16	l/defl >960 >699	L/d 480 240	PLATES MT18HS MT20	<b>GRIP</b> 244/190 244/190
LUBBER           TOP CHORD         244 SP No.2[thi]           DOP CHORD         244 SP No.2[thi]           WEBS         244 SP No.2[thi]           OTHERS         244 SP No.2[thi]           BRACIMS         Enclose           BRACIMS         Structural wood sheathing directly applied or 100-0 cc           6-0 oc purlins, except end verticals.         BOT CHORD           DOT CHORD         Structural wood sheathing directly applied or 100-0 cc           bracing.         Terasion           REACTIONS         (Size)         12-0-38, 20-0-38           Max Grav         12-0-310, (1.1):20-730 (LC 1)           PORCES         (b). Maximum Compression/Maximum           Tension         Tension           Tension         Tension           Color-000, 11-12-20, 0         2-3-4:1530, 0.1-11-20           DOT CHORD         9-0-0011, 1-81-002/132, 16-18-012/739, 13-14-02/132, 12-13-001           DOT CHORD         10-12-1400, 10-13-0812, 2-13-001           DOT CHORD         10-12-1400, 10-13-0812, 2-13-001           DOT CHORD         10-12-1420, 6-15-174/20           Notal         11-18-4140, 7-15-104/399, -14-14-4140, 4-15-124/39, -5-18-174/20, 5-15-174/20           Notal         10-12-1400, 10-13-0812, 2-13-001           DI hobaarced foor live loads have	BCLL BCDL	0.0 5.0	Rep Stress Incr Code	YES IRC2015/TPI2014	WB Matrix-S	0.39	Horz(CT)	0.05	12	n/a	n/a	Weight: 85 lb	FT = 20%F, 11%E
BRACINO 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. REACTONS (size) 12=0-3-8, 20=0-3-8 Max Grav 12=730 (LC 1), 20=730 (LC 1) FORCES (II)- Maximum Compression/Maximum Tension TOP CHORD 1:20=310, 11-12=310, 1-2=-20, 1:20=310, 11-12=310, 1-2=-20, 1:20=310, 11-12=310, 1-2=-20, 1:20=310, 10-11=20 BOT CHORD 1:20=0101, 11-18=0-02123, 16-18=0/2793, 15-16=0/2923, 14-15=0/2793, 13-14=0/2122, 12:13=0/911 WEES 10-12=-1140/0, 2-20=-1140/0, 10-13=0/812, -13=19=0/812, 0-15=-174/20 BOT CHORD 1:01=00/213, 14-18=0/2132, 15-16=0/223, 14-15=-0/398, 14-16=-104/399, 5-16=-174/20, 6-15=-174/20 NOTES 1) Unbalanced floor live loads have been considered for this design. NOTES Structural Residential Code sections R602, 11.1 and R802-102 and referenced standard ANS/TP11.1 SEAL 036322 10:10=11 and residential Code sections R602, 11.1 and R802-102 and referenced standard ANS/TP11.1 SEAL 036322 0.0151*X7) nails. Strongbacks to be athraced to walls at ther outer ends or restrained by other means.	LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.2(flat)											
REACTIONS       (size)       12=0-3-8, 20=0-3-8 Max Grav       12=0-3-8, 20=0-3-8 Max Grav       12=730 (LC 1), 20=730 (LC 1)         FORCES       (b) - Maximum Compression/Maximum Tension       120=-310, 11-12=-310, 1-2=-20, 2-3=15350, 3-4=-2474/0, 4-5=-2023/0, 5-6=-2923/0, 6-7=-2923/0, 7-9=-2474/0, 9-10=-1535/0, 10-11==20       120=-310, 11-12=-310, 11-22=-20, 2-3=00/11         BOT CHORD       19-20=0/911, 18-19=0/2132, 16-18=0/2793, 15-16=0/2923, 14-15=0/2793, 13-14=-0/2132, 12-13=0/911       12-140/0, 2-20=-1140/0, 10-13=0/812, 2-19=0/812, 9-13=-778/0, 3-19=-778/0, 9-14=0/446, 3-18=0/46, 7-14=-714/0, 4-18=-414/0, 7-15=-104/399, 4-16=-104/399, 5-16=-174/20, 6-15=-714/20       10-12-1140/0, 10-13=0/812, 2-19=0/812, 9-13=-778/0, 3-19=-778/0, 9-14=0/446, 3-18=0/46, 7-14=-714/0, 4-18=-414/0, 7-15=-104/399, 4-16=-104/399, 5-16=-174/20, 6-15=-714/20         NOTES       1)       Unbalanced floor live loads have been considered for this design.       SEAL 036322         2)       All plates are 3X3 MT20 unless otherwise indicated.       SEAL 036322       036322         3)       All plates are 3X3 MT20 unless otherwise indicated.       SEAL 036322       036322         4)       This design.       SEAL 036322       036322       036322         5)       Recommend 2x8 strongbacks, on edge, spaced at 10-00-00 co and fastered band/NUTP1 1.       SEA 036322       036322       036322         6)       Recommend 2x8 strongbacks, on edge, spaced at 10-00-00 co and fastered band/NUTP1 1.       SEA 036322       036322 <td< td=""><td>BRACING TOP CHORD BOT CHORD</td><td>Structural wood shea 6-0-0 oc purlins, exa Rigid ceiling directly bracing.</td><td>athing directly applie cept end verticals. applied or 10-0-0 oc</td><td>ed or</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	BRACING TOP CHORD BOT CHORD	Structural wood shea 6-0-0 oc purlins, exa Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 oc	ed or									
FORCES       (b) - Maximum Compression/Maximum Tension         TOP CHOR D       1.20=-31/0, 11-12=-31/0, 1-2=-2/0, 2-3=-1535/0, 3-4=-2474/0, 4-5=-2923/0, 5-6=-2923/0, 6-7=-2923/0, 6-7=-2923/0, 6-7=-2923/0, 1-1=-2/0         BOT CHORD       19:20=-01/0, 11-20         BOT CHORD       19:20=-01/1, 18-19=-0/2132, 16-18=-0/2793, 1-14=-0/2132, 12-13=-0/911         WEBS       10:12=-1140/0, 10:-13=-0/812, 2-1140/0, 10:13=-0/812, 2-19=-0/812, 9-13=-778/0, 9-19=-778/0, 9-19=-778/0, 9-19=-778/0, 9-19=-778/0, 9-19=-778/0, 9-19=-778/0, 9-19=-778/0, 9-19=-778/0, 9-19=-778/0, 9-11=-778/0, 9-12=-778/0, 9-12=-778/0, 9-12=-778/0, 9-12=-778/0, 9-12=-778/0, 9-12=-778/0, 9-22/0, 9-20/0, 9	REACTIONS	(size) 12=0-3-8, Max Grav 12=730 (L	20=0-3-8 .C 1), 20=730 (LC 1)	)									
TOP CHORD       1-20=-31/0, 11-12=-31/0, 1-2=-2/0, 2-3=-15350, 0, 3-4=-2474/0, 4-5=-2923/0, 5-6=-2923/0, 6-7=-2923/0, 7-9=-2474/0, 9-10=-1535/0, 10-11=-2/0         BOT CHORD       19-20=-0/91, 18-19=-0/2793, 15-16=0/2923, 14-15=0/2793, 13-14=0/2132, 12-13=0/911         WEBS       10-12=-1140/0, 2-20=-1140/0, 10-13=0/812, 2-19=0/812, 9-13=-778/0, 3-19=-778/0, 9-14=0/446, 3-18=0/446, 7-14=-414/0, 4-18=-414/0, 7-15=-104/399, 4-16=-104/399, 5-16=-174/20         NOTES       1)         U       Unablanced floor live loads have been considered for this design.         2)       All plates are MT20 plates unless otherwise indicated.         3)       All plates are MT20 plates unless otherwise indicated.         3)       All plates are M3 MT20 unless otherwise indicated.         4)       This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS//TPI 1.         5)       Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 co can distened to each truss with 3-10d (0.131'X 3') nails. Strongbacks, on edge, spaced at 10-00-00 co can distened 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)       Strongbacks to be attached to walls	FORCES	(lb) - Maximum Com Tension	pression/Maximum										
BOT CHORD 19-20-0/911, 18-19=0/2132, 16-18=0/2793, 15-16=0/2793, 15-16=0/2293, 14-15=0/2793, 13-14=0/2132, 12-13=0/911 WEBS 10-12=-1140/0, 2-20=-1140/0, 10-13=0/812, 2-13=0/911 WEBS 2-19=0/812, 9-13=-778/0, 3-19=-778/0, 9-14=0/446, 3-18=-0/4/399, 5-16=-174/20, 6-15=-174/20 NOTES 1) Unbalanced floor live loads have been considered for this design. 2) All plates are MT20 plates unless otherwise indicated. 3) All plates are MT20 plates unless otherwise indicated. 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/TP11. 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	TOP CHORD	1-20=-31/0, 11-12=- 2-3=-1535/0, 3-4=-2 5-6=-2923/0, 6-7=-2 9-10=-1535/0, 10-11	31/0, 1-2=-2/0, 474/0, 4-5=-2923/0, 923/0, 7-9=-2474/0, =-2/0										
<ul> <li>WEBS 10-12=-1140/0, 2-20=-1140/0, 10-13=0/812, 2-19=0/812, 9-13=-778/0, 3-19=-778/0, 9-14=0/446, 3-18=0/446, 7-14=-414/0, 4-18=-104/399, 4-18=-104/399, 5-16=-174/20, 6-15=-174/20, 6-15=-174/20</li> <li>NOTES</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) All plates are MT20 plates unless otherwise indicated.</li> <li>3) All plates are 3x3 MT20 unless otherwise indicated.</li> <li>3) All plates are 3x3 MT20 unless otherwise indicated.</li> <li>4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/ITPI 1.</li> <li>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.</li> <li>LOAD CASE(S) Standard</li> </ul>	BOT CHORD	19-20=0/911, 18-19= 15-16=0/2923, 14-15 12-13=0/911	=0/2132, 16-18=0/27 5=0/2793, 13-14=0/2	793, 2132,									
NOTES         1) Unbalanced floor live loads have been considered for this design.         2) All plates are MT20 plates unless otherwise indicated.         3) All plates are 3x3 MT20 unless otherwise indicated.         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.         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	WEBS	10-12=-1140/0, 2-20 2-19=0/812, 9-13=-7 9-14=0/446, 3-18=0/ 4-18=-414/0, 7-15=- 5-16=-174/20, 6-15=	=-1140/0, 10-13=0/8 '78/0, 3-19=-778/0, '446, 7-14=-414/0, 104/399, 4-16=-104/ 174/20	312, '399,							15	TH CA	ROL
<ul> <li>Unbalanced floor live loads have been considered for this design.</li> <li>All plates are MT20 plates unless otherwise indicated.</li> <li>All plates are 3x3 MT20 unless otherwise indicated.</li> <li>All plates are 3x3 MT20 unless otherwise indicated.</li> <li>SEAL</li> <li>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.</li> <li>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.</li> <li>LOAD CASE(S) Standard</li> </ul>	NOTES	0-10-114/20, 0-10-	114/20							/	50	Chilles	ti N/1-
<ul> <li>2) All plates are MT20 plates unless otherwise indicated.</li> <li>3) All plates are 3x3 MT20 unless otherwise indicated.</li> <li>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.</li> <li>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.</li> <li>LOAD CASE(S) Standard</li> </ul>	1) Unbalance this design	ed floor live loads have n.	been considered fo	r						4		A I	U.S.
<ul> <li>3) All plates are 3x3 M120 unless otherwise indicated.</li> <li>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.</li> <li>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.</li> <li>LOAD CASE(S) Standard</li> </ul>	2) All plates	are MT20 plates unless	s otherwise indicated	d.						E		SFA	n i i
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	<ol> <li>All plates</li> <li>This truss Internation R802.10.2</li> </ol>	are 3x3 M120 unless on is designed in accordanal Residential Code see 2 and referenced stand	otherwise indicated. ance with the 2015 ections R502.11.1 ar ard ANSI/TPI 1.	nd						IIII		0363	22
LOAD CASE(S) Standard	5) Recomme 10-00-00 ( (0.131" X	end 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks	n edge, spaced at h truss with 3-10d to be attached to wa	alls								A CA	ER. KINN
	LOAD CASE(	S) Standard	by other means.									11111 G	inni

# LOAD CASE(S) Standard

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



September 21,2022

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A & B	
Q2200855	F204	Floor	3	1	Job Reference (optional)	154309748

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Sep 21 07:07:48 ID:nHZ7Abcj1c9ooyxcF3HkNczCT\_X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



### Scale = 1:31.6

Loading TCLL TCDL 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 0 BC 0 WB 0	.56 .76 .38	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.21 -0.29 0.05	(loc) 14-15 14-15 11	l/defl >930 >681 n/a	L/d 480 240 n/a	PLATES MT20	<b>GRIP</b> 244/190	~
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 84 lb	FT = 20%F, 11	%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2(flat) 2x4 SP No.1(flat) *Ex No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea	xcept* 13-11:2x4 SP athing directly applie	6) CAUTION, D LOAD CASE(S) d or	o not erect truss back Standard	ward	ls.							
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc											
REACTIONS	(size) 11=0-3-8, Max Grav 11=715 (L	19= Mechanical .C 1), 19=720 (LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum											
TOP CHORD	1-19=-36/0, 10-11=- 2-4=-1498/0, 4-5=-24 6-7=-2782/0, 7-8=-24 9-10=-2/0	31/0, 1-2=0/0, 402/0, 5-6=-2782/0, 409/0, 8-9=-1497/0,											
BOT CHORD	18-19=0/894, 17-18= 15-16=0/2782, 14-15 11-12=0/891	=0/2070, 16-17=0/27 5=0/2699, 12-14=0/2	82, 079,										
WEBS	9-11=-1116/0, 2-19= 2-18=0/786, 8-12=-7 8-14=0/429, 4-17=0/ 5-17=-607/0, 7-15=- 5-16=-68/159	-1122/0, 9-12=0/788 58/0, 4-18=-745/0, 466, 7-14=-378/0, 134/395, 6-15=-168/0	в, О,							in it	ORTH CA	ROLIN	
NOTES									4	U		A A	Ż
<ol> <li>Unbalance this design</li> <li>All plates a</li> <li>Refer to gii</li> <li>This truss i Internation R802.10.2</li> <li>Recommer 10-00-00 o (0.131" X 3 at their out</li> </ol>	d floor live loads have are 3x3 MT20 unless o rder(s) for truss to trus is designed in accorda al Residential Code se and referenced stand d 2x6 strongbacks, on c and fastened to eac 3") nails. Strongbacks er ends or restrained to	been considered for therwise indicated. s connections. ince with the 2015 actions R502.11.1 an ard ANSI/TPI 1. n edge, spaced at h truss with 3-10d to be attached to wa by other means.	nd alls						( 1111111111 · · · ·		SEA 0363 CA.G	22 E.P	MANUTURE CONTRACT



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A & B	
Q2200855	F205	Floor	5	1	Job Reference (optional)	154309749





Scale = 1:26.7

Loa	ding	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCL	_L	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.14	11-12	>999	480	MT20	244/190
TCI	DL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.19	11-12	>830	240		
BCI	_L	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03	9	n/a	n/a		
BCI	DL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%F, 11%E
LUN	MBER												
TOF	P CHORD	2x4 SP No.2(flat)											
BO	T CHORD	2x4 SP No.2(flat)											
WE	BS	2x4 SP No.3(flat)											
OTł	HERS	2x4 SP No.3(flat)											
BR/	ACING												
TOF	P CHORD	Structural wood shea	athing directly applie	ed or									
		6-0-0 oc purlins, exe	cept end verticals.										
BO	T CHORD	Rigid ceiling directly	applied or 10-0-0 o	С									
		bracing.											
RE/	ACTIONS	(size) 9=0-3-8, 1	15=0-3-8										
		Max Grav 9=574 (LC	C 1), 15=574 (LC 1)										
FO	RCES	(lb) - Maximum Com	pression/Maximum										
		Tension											
TOF	P CHORD	1-15=-39/0, 8-9=-30/	/0, 1-2=-2/0, 2-3=-1	145/0,									
		3-4=-1669/0, 4-5=-1	669/0, 5-6=-1728/0,										
		6-7=-1140/0, 7-8=-2/	///										
BO	I CHORD	14-15=0/691, 13-14=	=0/1669, 12-13=0/16	669,									
	<b>D</b> O	11-12=0/1840, 10-1	1=0/1557, 9-10=0/70	06									
VVE	82	Z-15=-004/0, Z-14=0	J/391, 3-14=-009/0,										
		6-11=0/223 5-11=-1	565, 6-10542/0, 1/0/0 5-12=-320/10	2									
		3-13=0/181 4-12=-4	149/0, 5-12520/10. 15/84	Ζ,									
NO.	TES											munn	unin.
1)	l Inhalance	d floor live loads have	heen considered fo	nr.							6	W'TH CA	Rolly
• /	this design			/1							N.	R	- Inter
2)	All plates a	are 3x3 MT20 unless o	otherwise indicated.								<u>/</u> ,	U FESS	OK Vis
3)	This truss	is designed in accorda	ance with the 2015							4	Ů	A.	1 Sille
- /	Internation	al Residential Code se	ections R502.11.1 a	nd						1		<u>a</u> ~	W/L
										-	s		

R802.10.2 and referenced standard ANSI/TPI 1. Recommend 2x6 strongbacks, on edge, spaced at 4) 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 - Honeysuckle A & B	
Q2200855	F206	Floor	2	1	Job Reference (optional)	154309750

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Sep 21 07:07:48 ID:zzmCsAjAMQQ0ea9X\_J4MrMzCS?7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





### Scale = 1:26.2

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 0. BC 0. WB 0. Matrix-S	.44 .76 .27	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.15 0.03	(loc) 11-12 11-12 9	l/defl >999 >999 n/a	L/d 480 240 n/a	PLATES MT20 Weight: 68 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E		
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex	athing directly applic	ed or											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	2											
REACTIONS	(size) 9=0-3-8, Max Grav 9=561 (L0	15= Mechanical C 1), 15=566 (LC 1)												
FORCES	(lb) - Maximum Com	pression/Maximum												
TOP CHORD	1-15=-38/0, 8-9=-30 3-4=-1595/0, 4-5=-1 6-7=-1109/0 7-8=-2	lb) - Maximum Compression/Maximum Tension 1-15=-38/0, 8-9=-30/0, 1-2=0/0, 2-3=-1111/0, 3-4=-1595/0, 4-5=-1595/0, 5-6=-1662/0, 3-7=-1109/0, 7-8=-2/0												
BOT CHORD	14-15=0/680, 13-14	=0/1595, 12-13=0/15	595,											
WEBS	11-12=0/1764, 10-1 2-15=-853/0, 2-14=( 7-9=-862/0, 7-10=0/ 6-11=0/199, 5-11=-1 3-13=-6/165, 4-12=-	1=0/1509, 9-10=0/8 0/562, 3-14=-617/0, 546, 6-10=-521/0, 136/0, 5-12=-315/88, 31/87	, ,											
NOTES														
<ol> <li>Unbalance this design</li> <li>All plates a</li> <li>Refer to gi</li> <li>This truss Internation R802.10.2</li> <li>Recomme 10-00-00 c (0.131" X a at their out</li> <li>CAUTION</li> <li>CAUTION</li> </ol>				A CONTRACT		SEA 0363								
LUAD CASE(	S) Standard										A. G	ILBUTT		

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



September 21,2022

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A & B	
Q2200855	F207	Floor	11	1	Job Reference (optional)	154309751

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Wed Sep 21 07:07:48 ID:lb9rUaJyFBNJmaWQoaWwfQzDVuE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:37.2

<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	0.69 0.96 0.49	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.40 -0.55 0.08	(loc) 18-19 18-19 12	l/defl >603 >438 n/a	L/d 480 240 n/a	PLATES MT18HS MT20 Weight: 103 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11'	%Е
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.1(flat) *E: No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.2(flat) *E: No.3(flat)	xcept* 14-12:2x4 SP xcept* 12-26:2x4 SP	5) Recommer 10-00-00 o (0.131" X 3 at their out LOAD CASE(S	d 2x6 strongbacks c and fastened to e ") nails. Strongbac er ends or restraine ) Standard	, on edge each truss cks to be ed by othe	e, spaced at s with 3-10d attached to w er means.	valls						
BRACING TOP CHORD	Structural wood sheat	athing directly applie cept end verticals.	ed or										
BOT CHORD	Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 19	applied or 10-0-0 oc -20,18-19,17-18.	2										
REACTIONS	(size) 12=0-3-8, Max Grav 12=876 (L	24=0-3-8 _C 1), 24=876 (LC 1)	)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-24=-31/0, 11-12=-3 2-3=-1901/0, 3-5=-3 6-7=-4214/0, 7-8=-39 9-10=-1902/0, 10-11	31/0, 1-2=-2/0, 194/0, 5-6=-3975/0, 975/0, 8-9=-3194/0, =-2/0											
BOT CHORD	23-24=0/1104, 22-23 20-21=0/3725, 19-20 17-18=0/4214, 16-17 13-15=0/2671, 12-13	3=0/2671, 21-22=0/3 D=0/4214, 18-19=0/4 7=0/3725, 15-16=0/3 3=0/1104	3725, 4214, 3725,									Politi	
WEBS	10-12=-1383/0, 2-24 2-23=0/1038, 9-13=- 9-15=0/681, 3-22=0/ 8-16=-18/37, 5-22=-/ 8-17=0/410, 5-20=0/ 6-20=-565/75, 6-19=	=-1383/0, 10-13=0/1 -1001/0, 3-23=-1002 /681, 8-15=-678/0, 677/0, 5-21=-18/37, /410, 7-17=-565/75, 162/189, 7-18=-162	1038, /0, 2/189						G	ALL ALL	OR EESS SEA		Maria
<b>NOTES</b> 1) Unbalance	d floor live loads have	been considered for	r								0363	22	1111

this design.

All plates are MT20 plates unless otherwise indicated. 2)

3) All plates are 1.5x3 MT20 unless otherwise indicated.

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 - Honeysuckle A & B	
Q2200855	K201	Floor Supported Gable	1	1	Job Reference (optional)	154309752

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Sep 21 07:07:49 ID:pyj6bZMC4k9xCMjSzOwe7lzDjUN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:28.2

00010 - 1.20.2															
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 NO IRC201	15/TPI2014	CSI TC BC WB Matrix-R	0.09 0.02 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 13	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 61 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N SP No.2( Structura 6-0-0 oc Rigid ceil bracing. (size)	lo.2(flat) lo.2(flat) lo.3(flat) lo.3(flat) *E flat) il wood she purlins, ex ing directly 13=14-3-1 16=14-3-1	Except* 24-25,26-27: eathing directly applie copt end verticals. applied or 10-0-0 or 8, 14=14-3-8, 15=14 8, 17=14-3-8, 18=14	4 5 2x4 6 ed or 7 -3-8, 8 -3-8, L	<ul> <li>Gable studs</li> <li>This truss is International R802.10.2 a</li> <li>Load case(s designer mu correct for th</li> <li>Recommence 10-00-00 oc (0.131" X 3" at their outer</li> <li>CAUTION, E</li> <li>DAD CASE(a)</li> </ul>	spaced at 1-4-0 c designed in acco Residential Code nd referenced sta ) 1 has/have beer st review loads to te intended use o' i 2x6 strongbacks and fastened to e ) nails. Strongback ends or restraine o not erect truss Standard	cc. rdance w e sections indard Ah n modifier verify this f this truss a, on edge each truss cks to be ed by othe backward	ith the 2015 s R502.11.1 a NSI/TPI 1. d. Building at they are s. e, spaced at s with 3-10d attached to w er means. ds.	und valls						
	Max Grav	19=14-3-4 22=14-3-4 13=609 (I 15=150 (I 17=147 (I 19=147 (I 21=147 (I 23=149 (I	8, 20=14-3-8, 21=14 8, 23=14-3-8, 24=14 LC 1), 14=129 (LC 1 LC 1), 16=146 (LC 1 LC 1), 18=147 (LC 1 LC 1), 20=147 (LC 1 LC 1), 22=146 (LC 1 LC 1), 24=51 (LC 1)	-3-8, 1, -3-8 ), ), ), ), ),	) Dead + Flo Plate Increa Uniform Lo Vert: 13- Concentrat Vert: 12=	or Live (balanced ase=1.00 ads (lb/ft) 24=-10, 1-12=-10 ed Loads (lb) =-568	): Lumbe 10	r Increase=1.	00,						
FORCES	(lb) - Max	kimum Corr	npression/Maximum												
TOP CHORD	1-24=-48 2-3=-6/0, 6-7=-6/0, 10-11=-6	/0, 12-13=- 3-4=-6/0, 4 7-8=-6/0, 8 /0 11-12=-	-602/0, 1-2=-6/0, 4-5=-6/0, 5-6=-6/0, 8-9=-6/0, 9-10=-6/0,									- IN	N'ITH CA	ROLIN	
BOT CHORD	23-24=0/ 19-20=0/ 15-16=0/	6, 22-23=0 6, 18-19=0 6, 14-15=0	//6, 21-22=0/6, 20-21 //6, 17-18=0/6, 16-17 //6_13-14=0/6	=0/6, =0/6,							4	Z	in the second	2 Ant	-
WEBS	2-23=-13 5-20=-13 8-17=-13 11-14=-1	3/0, 3-22=- 3/0, 6-19=- 3/0, 9-16=- 20/0	-134/0, 4-21=-133/0, -133/0, 7-18=-133/0, -133/0, 10-15=-136/0	),									SEA 0363	L 22	
NOTES											1	5	·	all S	
1) All plates	are 1.5x3 N	1T20 unless	s otherwise indicated	i.								11	S. NGIN	EFRAN	
2) Gable req	uires contin	uous botto	m chord bearing.									11	C	BEIN	
<li>J) I russ to b</li>	Truss to be fully sheathed from one face or securely							11							

 Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). September 21,2022

Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A & B	
Q2200855	K202	Floor Supported Gable	1	1	Job Reference (optional)	154309753

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Sep 21 07:07:49 ID:WgupdW9BahHGojBCu5C1dEzCRzH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



#### Scale = 1:24

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 IRC2018	5/TPI2014	<b>CSI</b> TC BC WB Matrix-R	0.08 0.02 0.03	<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	PLATES MT20 Weight: 51 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural we	2(flat) 2(flat) 3(flat) 3(flat) ood shea	thing directly applic	6) LC	Recommend 10-00-00 oc a (0.131" X 3") at their outer DAD CASE(S)	2x6 strongbacks and fastened to e nails. Strongbac ends or restraine Standard	, on edge each truss cks to be a ed by othe	, spaced at with 3-10d attached to wa r means.	alls					
BOT CHORD	6-0-0 oc pur Rigid ceiling bracing.	lins, exc directly	ept end verticals. applied or 10-0-0 oc	;										
REACTIONS	(size) 11 14 17 20	1=11-8-0 4=11-8-0 7=11-8-0 0=11-8-0	, 12=11-8-0, 13=11 , 15=11-8-0, 16=11 , 18=11-8-0, 19=11 , 18=11-8-0, 19=11	-8-0, -8-0, -8-0,										
	Max Grav 11 13 15 17	1=43 (LC 3=152 (L 5=147 (L 7=147 (L 9=146 (L	1), 12=122 (LC 1), C 1), 14=145 (LC 1) C 1), 16=147 (LC 1) C 1), 18=147 (LC 1) C 1), 18=147 (LC 1) C 1), 20=60 (LC 1)	), ), ),										
FORCES	(lb) - Maximu Tension	um Com	pression/Maximum											
TOP CHORD	1-20=-55/0, 3-4=-8/0, 4-5 7-8=-8/0, 8-9	10-11=-3 5=-8/0, 5 9=-8/0, 9	87/0, 1-2=-8/0, 2-3=- -6=-8/0, 6-7=-8/0, -10=-8/0	-8/0,										um.
BOT CHORD	19-20=0/8, 1 15-16=0/8, 1 11-12=0/8	18-19=0/8 14-15=0/8	3, 17-18=0/8, 16-17 3, 13-14=0/8, 12-13	=0/8, =0/8,								an'	OP TH CA	ROUT
WEBS	2-19=-132/0 5-16=-133/0 8-13=-138/0	, 3-18=-1 , 6-15=-1 , 9-12=-1	34/0, 4-17=-133/0, 34/0, 7-14=-132/0, 14/0								y		ight i	
NOTES											Ξ		SEA	L <u>:</u> E
<ol> <li>All plates</li> <li>Gable rec</li> <li>Truss to b braced ag</li> <li>Gable study</li> <li>Gable study</li> <li>This truss Internation</li> </ol>	are 1.5x3 MT2 uires continuou be fully sheathe gainst lateral mo ds spaced at 1- is designed in nal Residential	0 unless us botton d from o ovement -4-0 oc. accorda Code se	otherwise indicated n chord bearing. ne face or securely (i.e. diagonal web). nce with the 2015 ctions R502.11 1 at	nd							THE PARTY			EER. KUU
R802.10.2	2 and reference	ed standa	ard ANSI/TPI 1.										1111111	IIIII



September 21,2022

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A & B	
Q2200855	K203	Floor Supported Gable	2	1	Job Reference (optional)	154309754

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Sep 21 07:07:49  $ID:tjxdNrhw0Ff7mmR54Ex\_ZZzCT2J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:32.1						-								
Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES		CSI TC BC WB	0.08 0.01 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190	
BCDL	5.0	Code	IRC201	5/TPI2014	Matrix-R							Weight: 71 lb	FT = 20%F,	, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) SP No.2(flat) Structural wood s 6-0-0 oc purlins, Rigid ceiling direc bracing. (size) 16=16. 20=16. 22=16. 22=16. 22=16. 22=16. 23=16. 24=16. 23=16. 22=14. 22=14. 22=14. 22=14. 23=14. 23=14.	*Except* 30-31,16-32: sheathing directly applie except end verticals. tly applied or 10-0-0 or 11-8, 17=16-11-8, 11-8, 19=16-11-8, 11-8, 23=16-11-8, 11-8, 23=16-11-8, 11-8, 28=16-11-8, 11-8, 28=16-11-8, 11-8, 30=16-11-8 (LC 1), 17=120 (LC 1), 2 (LC 1), 21=147 (LC 1), 7 (LC 1), 28=147 (LC 1) 7 (LC 1), 28=147 (LC 1) 7 (LC 1), 28=147 (LC 1)	N( 1) 2) 3) 2x4 4) 5) ed or c 6) L( ), ), ), ), ), ),	All plates are Gable requir Truss to be f braced agair Gable studs This truss is International R802.10.2 ar Recommend 10-00-00 oc (0.131" X 3") at their outer DAD CASE(S)	e 1.5x3 MT20 unli es continuous bo ully sheathed from spaced at 1-4-0 of designed in acco Residential Code nd referenced sta 2x6 strongbacks and fastened to ef nails. Strongbar ends or restraine Standard	ess other ttom chor m one fac ient (i.e. d oc. rrdance w e sections andard AN s, on edge each truss cks to be ed by othe	wise indicated d bearing. e or securely iagonal web) ith the 2015 R502.11.1 a ISI/TPI 1. e, spaced at with 3-10d attached to w er means.	d. valls						
FORCES	(lb) - Maximum C Tension	ompression/Maximum									X	ORIESS	6.24	11
TOP CHORD	1-30=-49/0, 15-10 3-4=-7/0, 4-5=-7/ 7-8=-7/0, 8-10=-7 12-13=-7/0, 13-14	6=-29/0, 1-2=-7/0, 2-3= 0, 5-6=-7/0, 6-7=-7/0, 7/0, 10-11=-7/0, 11-12= 4=-7/0, 14-15=-7/0	-7/0, -7/0,							0	a	SFA	Till	2
BOT CHORD	29-30=0/7, 28-29 24-26=0/7, 23-24 20-21=0/7, 19-20 16-17=0/7	=0/7, 27-28=0/7, 26-27 =0/7, 22-23=0/7, 21-22 =0/7, 18-19=0/7, 17-18	7=0/7, 2=0/7, 3=0/7,							THUR .		0363	22	mm
WEBS	2-29=-132/0, 3-24 5-26=-133/0, 6-24 8-22=-133/0, 10-2 12-19=-132/0, 13	8=-134/0, 4-27=-133/0, 4=-133/0, 7-23=-133/0, 21=-133/0, 11-20=-134 -18=-138/0, 14-17=-11	/0, 2/0									Septembe	EEA. ILBERT	, INC.

818 Soundside Road Edenton, NC 27932







**Trenco** 818 Soundside Rd Edenton, NC 27932

Re: Q2200854 Garman Homes - Honeysuckle A Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carolina Structural Systems, LLC.

Pages or sheets covered by this seal: I56593907 thru I56593932

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

North Carolina COA: C-0844



February 11,2023

# Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	A01	Common Supported Gable	1	1	Job Reference (optional)	156593907

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:35 ID:TQMyn9GoQuaSDHDyWp0\_7VzDUEQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



32-3-8

# Scale = 1:63.6

Plate Offsets (X, Y): [21:0-4-2,0-1-8]

<b>Loading</b> 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 IRC2018	3/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.09 0.06 0.13	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 21	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 224 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep 2x4 SP No.3 Structural wood she except end verticals Rigid ceiling directly 1 Row at midpt (size) 21=32-3-( 24=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 35=32-3-( 122-38 (L 24=-19 (L 26=-17 (L 35=-18 (L 35=-18 (L 35=-18 (L 35=-18 (L 35=-11 (L 25=160 (l 25=160 (l	t* 21-19:2x4 SP No.2 athing directly applied applied. 10-30, 9-31, 11-29 0, 22=32-3-0, 23=32-3 0, 25=32-3-0, 26=32-3 0, 25=32-3-0, 36=32-3 0, 29=32-3-0, 37=32-3 0, 36=32-3-0, 37=32-3 0, 36=32-3-0, 37=32-3 0, 36=32-3-0, 37=32-3 0, 36=32-3-0, 37=32-3 0, 20, 23=-13 (LC 12) C 12), 23=-13 (LC 12) C 12), 25=-18 (LC 12) C 12), 34=-6 (LC 12), C 12), 34=-6 (LC 12) C 12), 38=-45 (LC 12) C 12), 24=175 (LC 18) C 1), 24=160 (LC 24)	TC -0, -0, -0, -0, -0, -0, -0, -0,	P CHORD 1 3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I-39=-99/43, 1-2=-1 3-4=-105/87, 4-5=-9 7-8=-104/150, 8-9=- 10-11=-148/226, 11 12-13=-104/150, 13 15-16=-63/71, 16-17 18-19=-95/72, 19-20 8-39=-68/93, 37-38 15-36=-68/93, 30-31 8-29=-68/93, 20-32 24-25=-68/93, 23-24 24-25=-68/93, 24-25 24-25=-68/93, 24-25 24-25=-68/93, 24-25 24-25=-68/93,	34/121 6/74, 5 128/191 12=-12 -15=-8° 72/4 0=0/30, 3=-68/9 1=-68/9 1=-68/9 1=-68/9 1=-68/9 1=-68/9 1=-68/9 1=-68/9 1=-68/9 1=-68/9 1=-125/7 26=-12( 22=-12( been of 0) (3-sec CDL=6.( Exp B, con conrect() 2, con 2, con 38 z( 2, con 38 z( 38 z( 3-8	, 2-3=-112/96 -7=-88/111, 1, 9-10=-148/ 28/191, 1/111, 3, 17-18=-79/ 19-21=-133/ 3, 36-37=-68/ 3, 32-34=-68/ 3, 22-334=-68/ 3, 22-334=-68/ 3, 22-23=-68/ 42, 8-32=-120/ 42, 8-32=-120/ 42, 8-32=-120/ 5, 4-36=-120/ 4, 11-29=-126/ 5, 4-36=-120/ 5, 4-36=-120/	5, 6 (226, 8 (753, 12 (93, 993, 993, 993, 993, 993, 993, 993,	<ul> <li>Gá</li> <li>Gá</li> <li>Th</li> <li>ch</li> <li>ch</li> <li>ch</li> <li>ch</li> <li>ch</li> <li>Pr</li> <li>be</li> <li>36</li> <li>at</li> <li>18</li> <li>a6</li> <li>at</li> <li>18</li> <li>a6</li> <li>at</li> <li>18</li> <li>a6</li> <li>at</li> <li>a</li></ul>	ble studs is truss h ord live lo his truss the botto 66-00 tall ord and a ovide me aring plat , 6 lb upli iff at join , 11 lb up ioint 29, 2 lb uplift a joint 29, 2 is truss is ernationa 02,10,2 is truss d uoctural w ord and 1 bottom	s space as bee bom choo by 2-0 any oth chanic te capo ff at joint at joint at joint as desig and ref lesign 1 (/2" gyly chord.	ad at 2-0-0 oc. en designed for a nconcurrent with a sen designed for a rd in all areas wh 0-00 wide will fit I er members. al connection (by able of withstandii nt 31, 23 lb uplift 8 lb uplift at joint 28, 17 25, 19 lb uplift at lb uplift at joint 28, 17 25, 19 lb uplift at lb uplift at joint 22 ned in accordance dential Code sect erenced standarc requires that a mi eething be applie bsum sheetrock b	10.0 psf bottom any other live load: a live load of 20.0p ere a rectangle between the bottor others) of truss to og 47 lb uplift at joi at joint 32, 17 lb 5, 20 lb uplift at joi t at joint 38, 6 lb uplift at joint 24, 13 lb uplift uplift at joint 26 joint 24, 13 lb uplift with the 2018 ions R502.11.1 an I ANSI/TPI 1. nimum of 7/16" d directly to the to e applied directly f	s. ssf m int int int plift 3, ft nd pto
FORCES	28=160 (I 30=174 (I 32=160 (I 35=160 (I 37=157 (I 39=129 (I (Ib) - Maximum Com Tension	LC 1), 29=166 (LC 24) LC 12), 31=165 (LC 24) LC 1), 34=160 (LC 1), LC 1), 36=161 (LC 23) LC 1), 38=206 (LC 17) LC 18) LC 18)	, , , , , , , , , , , , , , , , , , ,	left and right exposed;C-C reactions sho DOL=1.60 Truss design only. For stu see Standarc or consult qu All plates are Truss to be fi braced again	exposed ; end verti for members and f own; Lumber DOL= ned for wind loads in ds exposed to wind I Industry Gable En alified building desi 2x4 MT20 unless o ully sheathed from o st lateral movemen	cal left forces & 1.60 pla n the pl I (norm d Detai gner as otherwis one fac t (i.e. d	and right & MWFRS for ate grip ane of the tru al to the face) ils as applicat s per ANSI/TP se indicated. e or securely iagonal web).	ss ), ble, Pl 1.				SEA 0363	ER. K	WHITTER .

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



February 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	A01	Common Supported Gable	1	1	Job Reference (optional)	156593907
Carolina Structural Systems (Sta	r, NC)), Ether, NC - 27247,	Run: 8.63 S Nov 19 2	2022 Print: 8.	630 S Nov 1	9 2022 MiTek Industries, Inc. Fri Feb 10 12:31:35	Page: 2

ID:TQMyn9GoQuaSDHDyWp0\_7VzDUEQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	A02	Common	7	1	Job Reference (optional)	156593908

5x6= 5

16-1-8

8-1-0

22

7<sup>12</sup>

2x4

3x4

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

10-3-1 10-2

Scale = 1:69.3

Loading

TCDL

BCLL

BCDL

WEBS

SLIDER

BRACING

FORCES

TOP CHORD

BOT CHORD

this design

DOL=1.60

WEBS

NOTES 1)

2)

3)

4)

TOP CHORD

BOT CHORD

REACTIONS (size)

LUMBER

TOP CHORD

BOT CHORD

-- 1-6-0

Tension

MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-2-12, Interior (1) 3-2-12 to 16-1-8, Exterior(2R) 16-1-8

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

to 19-4-4, Interior (1) 19-4-4 to 33-1-8 zone; cantilever

All plates are MT20 plates unless otherwise indicated.

chord live load nonconcurrent with any other live loads.

This truss has been designed for a 10.0 psf bottom

TCLL (roof)

0-9-5

8-0-8

8-0-8

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:38 ID:RiAhAXkhx3qHEt\_C6jhMX0zDUCX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 /

3x4.

24-2-8

8-1-0

23

Page: 1

33-1-8

0-10-0

10 % မံြ

GRIP

244/190

244/190

FT = 20%

32-3-8

8-1-0

6 3 3x4 🖌 3x4 2 8 9 24 25 13 26 12 27 11 28 29 3x8 II MT18HS 3x10 = 3x6 =3x6= 3x6= 3x6 =3x8 II 32-3-8 11-5-15 20-9-1 32-3-0 11-5-15 9-3-2 11-5-15 0-0-8 Plate Offsets (X, Y): [1:0-3-0,0-3-4], [9:0-3-0,0-2-15] PLATES 2-0-0 CSI DEFL in l/defl L/d (psf) Spacing (loc) 20.0 Plate Grip DOL 1.00 TC 0.66 Vert(LL) -0.33 11-20 >999 240 MT20 10.0 Lumber DOL 1.15 BC 0.93 Vert(CT) -0.59 11-20 >656 180 MT18HS 0.0\* Rep Stress Incr YES WB 0.34 Horz(CT) 0.06 9 n/a n/a 10.0 Code IRC2018/TPI2014 Matrix-AS Weight: 159 lb 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 2x4 SP No.2 3-06-00 tall by 2-00-00 wide will fit between the bottom 2x4 SP DSS \*Except\* 12-9:2x4 SP No.1 chord and any other members, with BCDL = 10.0psf. 2x4 SP No.3 Refer to girder(s) for truss to truss connections. 6) Left 2x4 SP No.2 -- 1-6-0, Right 2x4 SP No.2 Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 9 lb uplift at joint 1 and 30 lb uplift at joint 9. Structural wood sheathing directly applied. This truss is designed in accordance with the 2018 8) Rigid ceiling directly applied. International Residential Code sections R502.11.1 and 1= Mechanical, 9=0-3-8 R802.10.2 and referenced standard ANSI/TPI 1. Max Horiz 1=-167 (LC 10) 9) This truss design requires that a minimum of 7/16" Max Uplift 1=-9 (LC 12), 9=-30 (LC 12) structural wood sheathing be applied directly to the top Max Grav 1=1495 (LC 17), 9=1540 (LC 18) chord and 1/2" gypsum sheetrock be applied directly to (Ib) - Maximum Compression/Maximum the bottom chord. LOAD CASE(S) Standard 1-3=-2144/97, 3-5=-1941/137, 5-7=-1944/136, 7-9=-2149/97, 9-10=0/25 1-13=-115/1896, 11-13=0/1289, 9-11=-127/1775 5-13=-3/861, 5-11=-3/867, 7-11=-440/150, 3-13=-438/150 Unbalanced roof live loads have been considered for Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; Vin and a strain of the



818 Soundside Road Edenton, NC 27932

SEAL

036322

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	A03	Common	2	1	Job Reference (optional)	156593909

Scale = 1:74.4

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:39 ID:w3xUxNOdg95rAxyXd?eUavzDUAO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



	(7, 1). [2.000,001],	[10:0 0 0;0 2 10]; [1	2.0 0 0,0 0	ı <u>], [</u> 11.0 0 0,	001									
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 IRC2018/	TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.84 0.97 0.58	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.36 -0.60 0.07	(loc) 15 15 10	l/defl >999 >646 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 174 lb	<b>GRIP</b> 244/190 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS FORCES	2x4 SP No.2 2x4 SP DSS *Excep 12-17:2x4 SP No.1 2x4 SP No.3 Left 2x4 SP No.2 1-6-0 Structural wood she Rigid ceiling directly 6-0-0 oc bracing: 14 (size) 2=0-3-8, Max Horiz 2=169 (LC Max Grav 2=1723 (I (lb) - Maximum Com Tension	t* 16-14:2x4 SP No.2 1-6-0, Right 2x4 SP No.2 athing directly applie applied. Except: -16 10=0-3-8 C 11) _C 17), 10=1720 (LC apression/Maximum	4) 2, 5) No.2 6) d. 7) 18) LOA	This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an This truss is ( International R802.10.2 ar This truss de structural wo chord and 1/2 the bottom ch AD CASE(S)	s been designed di nonconcurrent ias been designe n chord in all area y 2-00-00 wide v ny other members designed in acco Residential Code nd referenced sta sign requires tha od sheathing be 2" gypsum sheet hord. Standard	f for a 10. t with any d for a liv as where will fit betv s, with BC ordance w e sections andard AN at a minim applied d rock be a	D psf bottom other live loa e load of 20.0 a rectangle ween the botts DL = 10.0pst th the 2018 s R502.11.1 a ISI/TPI 1. um of 7/16" irrectly to the to pplied directly	ids. Opsf om f. ind top y to						
TOP CHORD BOT CHORD WEBS	1-2=0/26, 2-4=-248( 6-8=-2284/37, 8-10= 2-13=-82/2178, 10-1 15-16=-89/0, 14-15= 16-17=0/894, 6-16= 12-14=0/908, 4-17= 13-15=-161/0	)/0, 4-6=-2274/37, 2489/0, 10-11=0/25 13=-82/2061, 89/0 0/1039, 6-14=0/1051 -426/156, 8-12=-431/	, 156,										11111	
NOTES 1) Unbalanct this desig 2) Wind: ASC Vasd=95r B=45ft; L= MWFRS ( 2-4-4, Inte 19-4-4, Inte 19-4-4, Inte and right e exposed;( reactions DOL=1.6( 3) All plates	ed roof live loads have n. CE 7-16; Vult=120mph mph; TCDL=6.0psf; BC =32ft; eave=4ft; Cat. II; (directional) and C-C E erior (1) 2-4-4 to 16-1-8 terior (1) 19-4-4 to 33- exposed ; end vertical C-C for members and f shown; Lumber DOL= ) are MT20 plates unles	been considered for (3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior(2E) -0-10-8 to 8, Exterior(2R) 16-1-8 1-8 zone; cantilever le left and right forces & MWFRS for 1.60 plate grip s otherwise indicated	to əft							A CONTRACTOR OF CONTRACTOR OFO		SEA 0363		A DAMAGE AND A DESCRIPTION OF A DESCRIPR



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	A04	Common	1	1	Job Reference (optional)	156593910

Run: 8.63 S. Nov 19 2022 Print: 8.630 S. Nov 19 2022 MiTek Industries. Inc. Fri Feb 10 12:31:40 ID:HevxOyhIT1ZfVNd5Oz3aQTzDU8j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



# LUMBER

NOTES 1)

2)

3)

4)

this design.

DOL=1.60

Loading

TCDL

BCLL

BCDL

TCLL (roof)

Scale = 1:77.1

2x4 SP DSS *Except* 16-13:2x4 SP No.2
2x4 SP No.3
Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2
1-6-0
Structural wood sheathing directly applied.
Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 13-16
(size) 1=0-3-8, 9=0-3-8
Max Horiz 1=-167 (LC 10)
Max Grav 1=1676 (LC 17), 9=1721 (LC 18)
(lb) - Maximum Compression/Maximum
Tension
1-3=-2486/0, 3-5=-2284/38, 5-7=-2289/37,
7-9=-2492/0, 9-10=0/25
1-17=-80/2183, 12-17=0/1542, 11-12=0/1542
9-11=-81/2063, 14-16=-45/0, 13-14=-45/0
16-17=0/925, 5-16=0/1045, 5-13=0/1054,

12-14=-168/0

Unbalanced roof live loads have been considered for

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;

B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed;

MWFRS (directional) and C-C Exterior(2E) 0-0-0 to

3-2-12, Interior (1) 3-2-12 to 16-1-8, Exterior(2R) 16-1-8

to 19-4-4, Interior (1) 19-4-4 to 33-1-8 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

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.

11-13=0/934, 3-17=-427/157, 7-11=-430/156,

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. This truss is designed in accordance with the 2018

International Residential Code sections R502.11.1 and

- R802.10.2 and referenced standard ANSI/TPI 1. 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top
- chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

6)

# VIII III IIII IIII 1111111111 SEAL 036322 G mmm February 11,2023

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	A05	Common	4	1	Job Reference (optional)	156593911

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:40 ID:HevxOyhIT1ZfVNd5Oz3aQTzDU8j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading TCLL (ro TCDL BCLL BCDL	of)	(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 IRC207	18/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.84 0.61 0.48	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.58 0.07	(loc) 14 14 9	l/defl >999 >674 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 173 lb	<b>GRIP</b> 244/190 244/190 FT = 20%	
LUMBER TOP CHI BOT CHI WEBS SLIDER BRACIN TOP CHI BOT CHI REACTIO	G ORD ORD ORD ORD ORD ONS (	2x4 SP No.2 2x4 SP DSS *Exce 2x4 SP No.3 Left 2x4 SP No.2 - 1-6-0 Structural wood sh Rigid ceiling directl 6-0-0 oc bracing: 1 (size) 1= Mech Max Horiz 1=-167 ( Max Grav. 1=-167 (	pt* 16-13:2x4 SP No. 1-6-0, Right 2x4 SP eathing directly applied y applied. Except: 3-16 anical, 9=0-3-8 LC 10) (C 17) 0=1721 (C	5 2 No.2 6 7 ed. 8	<ul> <li>* This truss h on the bottor 3-06-00 tall b chord and ar</li> <li>Refer to gird</li> <li>This truss is International R802.10.2 ar</li> <li>This truss de structural wo chord and 1/ the bottom c</li> </ul>	as been designed n chord in all area by 2-00-00 wide w y other members er(s) for truss to tr designed in accor Residential Code nd referenced star sign requires that od sheathing be a 2" gypsum sheetn hord. Standard	d for a liv is where ill fit betw , with BC uss conr dance w sections ndard AN a minim applied di ock be ap	e load of 20.0 a rectangle veen the botto DL = 10.0psf nections. ith the 2018 is R502.11.1 a ISI/TPI 1. um of 7/16" irrectly to the to pplied directly	Opsf om f. and top y to						
	. r	Max Grav 1=16/6	(LC 17), 9=1721 (LC	18)	( )										
FORCES	5	(lb) - Maximum Cor	npression/Maximum												
TOP CH	ORD	1-3=-2486/0, 3-5=-3	2284/38, 5-7=-2289/3	87,											
		7-9=-2492/0, 9-10=	0/25												
BOT CH	ORD	1-17 = -80/2183, 15 = -81/2063, 14	-1/=0/1542, 11-15=0/	1542, /0											
WEBS		9-1101/2003, 14- 16-17=0/925, 5-16- 11-13=0/934, 14-15 7-11=-430/156	=0/1045, 5-13=0/1054 5=-168/0, 3-17=-427/*	1, 157,											
NOTES														11111	
1) Unba	alanced	d roof live loads have	e been considered for	r									THUA	ROUL	
<ul> <li>this of</li> <li>2) Wind</li> <li>Vasc</li> <li>B=45</li> <li>MWF</li> <li>3-2-1</li> <li>to 19</li> <li>left a</li> <li>expo</li> <li>react</li> <li>DOL</li> <li>3) All pl</li> </ul>	design. I: ASCI I=95mp 5ft; L=3 FRS (di I2, Inte I-4-4, Ir nd righ sed;C- tions sh =1.60 ates an	E 7-16; Vult=120mp ph; TCDL=6.0psf; Br 32ft; eave=4ft; Cat. II irrectional) and C-C I erior (1) 3-2-12 to 16 nterior (1) 19-4-4 to tt exposed ; end ver -C for members and hown; Lumber DOL= re MT20 plates unle	h (3-second gust) CDL=6.0psf; h=25ft; l; Exp B; Enclosed; Exterior(2E) 0-0-0 to 1-8, Exterior(2R) 16- 33-1-8 zone; cantileventical left and right forces & MWFRS for =1.60 plate grip ss otherwise indicated	1-8 er d.							Guinner		SEA 0363	L22 EF. BEALIN	
A) This	4		an a 100 maf hatt										I A C	ILV N	

- MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-2-12, Interior (1) 3-2-12 to 16-1-8, Exterior(2R) 16-1-8 to 19-4-4, Interior (1) 19-4-4 to 33-1-8 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
- All plates are MT20 plates unless otherwise indicated. 3)
- 4) 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

February 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	A06	Common	3	1	Job Reference (optional)	156593912

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:41

Page: 1



MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-4-4, Interior (1) 2-4-4 to 16-1-8, Exterior(2R) 16-1-8 to 19-4-4, Interior (1) 19-4-4 to 33-1-8 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

All plates are MT20 plates unless otherwise indicated. 3)

This truss has been designed for a 10.0 psf bottom 4)

chord live load nonconcurrent with any other live loads.

1)

2)

818 Soundside Road

Edenton, NC 27932

G

mmm February 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	A07	Common Supported Gable	1	1	Job Reference (optional)	156593913

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:41 ID:eCyOw2VOkJjBFY3bjZCvYPzDU2V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:63.6

Plate Offsets (X, Y): [22:0-4-2,0-1-8]

<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 IRC2018/TPI2014	CSI TC BC WB Matrix-AS	0.07 0.05 0.13	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 22	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 226	<b>GRIP</b> 244/190 lb FT = 20%	6
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea except end verticals. Rigid ceiling directly 1 Row at midpt (size) 22=32-3-0 29=32-3-0 32=32-3-0 39=32-3-0 39=32-3-0 39=32-3-0 39=32-3-0 39=32-3-0 125=-19 (Li 25=-19 (Li 25=-19 (Li 27=-17 (Li	athing directly applied applied. 11-31, 10-32, 12-30 0, 23=32-30, 24=32-3 1, 26=32-3-0, 31=32-3 1, 33=32-3-0, 35=32-3 1, 40=32-3-0 C 12), 24=-12 (LC 12 C 12), 24=-12 (LC 12 C 12), 29=-22 (LC 12 C 12), 29=-22 (LC 12 C 12), 29=-27 (LC 12)	TOP CHORD 4, BOT CHORD 3-0, 3-0, 3-0, 3-0, 3-0, webs ), ), ),	$\begin{array}{c} 2-40 = -149/23, 1-2\\ 3-4 = -112/101, 4-5\\ 6-8 = -85/108, 8-9 =\\ 10-11 = -146/223, 1\\ 12-13 = -126/188, 1\\ 13-19 = -71/52, 19-\\ 20-22 = -128/11\\ 39-40 = -67/95, 38-\\ 36-37 = -67/95, 37-\\ 32-33 = -67/95, 27-\\ 25-26 = -67/95, 24-\\ 22-23 = -67/95, 24-\\ 22-23 = -67/95, 24-\\ 22-23 = -67/95, 24-\\ 22-23 = -67/95, 24-\\ 22-23 = -67/95, 24-\\ 23-30 = -120/61, 8-3\\ 5-37 = -120/56, 4-3\\ 12-30 = -126/54, 16\\ 17-25 = -120/56, 16\\ 19-23 = -125/73\\ \end{array}$	=0/31, 2- =-106/92 -102/147 1-12=-1. 3-14=-11 >-17=-56 20=-86/7 39=-67/9 32=-67/9 22=-67/9 22=-67/9 25=-67/9 -32=-120/5 8=-122/5 3-29=-12( >-24=-12)	3=-137/125, , 5-6=-94/80, , 9-10=-126/1 46/223, 02/147, 68, 17-18=-64 1, 20-21=0/30 5, 33-35=-67/ 5, 33-35=-67/ 5, 33-35=-67/ 5, 33-35=-67/ 5, 23-24=-67/ 5/42, 4, 6-36=-120/ 3, 3-39=-130/ 0/61, 1/52,	88, 4/44, ), 95, 95, 95, 95, 95, 95, 73,	5) Trus brac 6) Gat 7) This cho 8) * Th on t 3-06 cho 9) Prov bea 40, uplii 27, uplii 27, uplii 10) N/A 11) This Inte R80	ss to be sed agai le studs truss h rd live lc is truss he botto 5-00 tall rd and a vide med- ring plat 7 lb upli t at join 12 lb upli t at join 18 lb up t at join 18 lb up t at join 18 lb up t at join 19 lb up t at join 19 lb up t at join 10 lb up 10 lb up t at join 10 lb up 10 lb up	fully sl latting space space as bee ad noinhas bee m choo by 2-00 my oth chanicc e capa ft at joio : 35, 11 lift at jr : 30, 22 : 24 an e desigg I Residand ref	heathed from c eral movement ed at 2-0-0 oc. en designed for nconcurrent wi een designed f rd in all areas 0-00 wide will er members. al connection ( able of withstar int 32, 22 lb up 8 lb uplift at join oint 38, 40 lb u 2 lb uplift at join oint 26, 19 lb u d 39 lb uplift a ned in accorda dential Code so ferenced stand	a 10.0 psf bc th any other li ra live load where a recta fit between the by others) of f dding 18 lb up lift at joint 33, rt 36, 19 lb up plift at joint 25 t joint 23. nnce with the : ections R502. ard ANSI/TPI	currely web). ttom ve loads. of 20.0psf ngle e bottom truss to lift at joint 17 lb lift at joint 9, 7 lb lift at joint 5, 12 lb 2018 11.1 and 1.
FORCES	33=-22 (L 36=-18 (L 36=-18 (L 40=-18 (L 40=-18 (L 24=161 (L 24=161 (L 29=160 (L 31=172 (L 33=160 (L 38=162 (L 40=182 (L (lb) - Maximum Com Tension	C 12), 35=-17 (LC 12 C 12), 37=-19 (LC 12 C 12), 39=-40 (LC 12 C 10) C 17), 23=176 (LC 1 C 1), 25=160 (LC 24 C 1), 27=160 (LC 1), C 1), 30=166 (LC 24 C 12), 32=166 (LC 2 C 1), 35=160 (LC 1), C 1), 37=160 (LC 17 C 1), 39=187 (LC 17 C 18) pression/Maximum	), NOTES ), 1) Unbalanc, this desig 2) Wind: AS( 2) Wind: AS( 2) Wind: AS( 4), B=45ft; L= MWFRS ( 2-1-8, Ext 19-4-4, E) left and rig 2, reactions 0, DOL=1.6( 3) Truss des only. For see Stanc or consult 4) All plates	ed roof live loads hav CE 7-16; Vult=120mj nph; TCDL=6.0psf; E s32ft; eave=2ft; Cat. directional) and C-C erior(2N) 2-1-8 to 16 terior(2N) 19-4-4 to ht exposed ; end ve C-C for members and shown; Lumber DOL ) signed for wind loads studs exposed to win lard Industry Gable E qualified building de are 2x4 MT20 unless	ve been of bh (3-sec 3CDL=6.0 II; Exp B Corner(3 -1-8, Cor 33-1-8 zer trical left d forces 8 = 1.60 pla s in the pla find Deta signer as s otherwi	considered for ond gust) )psf; h=25ft; Enclosed; ED: 0-10-8 to ner(3R) 16-1- one; cantilever and right & MWFRS for ate grip ane of the true at to the face) ils as applicab s per ANS/ITP se indicated.	8 to r ss , ble, 1 1.		1 Contraction		SE 036	ARO SIGULA AL 322 NEER	

February 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	A07	Common Supported Gable	1	1	Job Reference (optional)	156593913
Carolina Structural Systems (Sta	r, NC)), Ether, NC - 27247,	Run: 8.63 S Nov 19 2	2022 Print: 8.	630 S Nov 1	9 2022 MiTek Industries, Inc. Fri Feb 10 12:31:41	Page: 2

ID:eCyOw2VOkJjBFY3bjZCvYPzDU2V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

12) 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



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	B01	Common Supported Gable	1	1	Job Reference (optional)	156593914

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Fri Feb 10 15:27:39 ID:9ehSCRKQ6jQ90h?C8C8SemzDUGw-npAj2d0w578rizjaX2A7sVi4GsyVuNFQM\_tN9uzmVMo





FORCES

WEBS

NOTES

TOP CHORD

this design.

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.42	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-MR							Weight: 105 lb	FT = 20%
LUMBER			4)	All plates are	2x4 MT20 unles	s otherwi	se indicated.						
TOP CHORD	2x4 SP No.2		5)	Truss to be fu	ully sheathed from	n one fac	e or securely	,					
BOT CHORD	2x4 SP No.2			braced again	st lateral movem	ent (i.e. d	iagonal web)						
WEBS	2x4 SP No.2		6)	Gable studs s	spaced at 2-0-0 o	DC.							
OTHERS	2x4 SP No.3		7)	This truss ha	s been designed	for a 10.0	) psf bottom						
BRACING				chord live loa	d nonconcurrent	with any	other live loa	ids.					
TOP CHORD	Structural wood shea	athing directly applied	or <sup>8)</sup>	* This truss h	as been designe	d for a liv	e load of 20.0	Opsf					
	6-0-0 oc purlins, exc	ept end verticals.		on the botton	n chord in all area	as where	a rectangle						
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc		3-06-00 tall b	y 2-00-00 wide w	vill fit betw	een the bott	om					
	bracing.			chord and an	y other members	S							
REACTIONS	All bearings 14-5-0.		9)	Provide mech	nanical connectio	on (by oth	ers) of truss f	to					
(lb) -	Max Horiz 20=182 (L	C 11)		bearing plate	capable of withs	tanding 1	UU Ib uplift al	1					
()	Max Uplift All uplift 10	00 (lb) or less at joint(s	s) (a)	joint(s) 12, 1/	7, 18, 19, 15, 14,	13 excep	t (jt=id) 20=1	07.					
	12 13 14	15 17 18 19 excent	ý 10)	N/A									

- 11) This truss is designed in accordance with the 2018
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard



Page: 1

818 Soundside Road Edenton, NC 27932

2)	Wind: ASCE 7-16; Vult=120mph (3-second gust)
	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(3E) -0-10-8 to
	2-1-8, Exterior(2N) 2-1-8 to 7-3-0, Corner(3R) 7-3-0 to
	10-3-0, Exterior(2N) 10-3-0 to 15-4-0 zone; cantilever
	left and right exposed ; end vertical left and right
	exposed;C-C for members and forces & MWFRS for
	reactions shown; Lumber DOL=1.60 plate grip
	DOL=1.60
3)	Truss designed for wind loads in the plane of the truss
	only. For studs exposed to wind (normal to the face),
	soo Standard Industry Gable End Datails as applicable

20=-107 (LC 10)

5-6=-143/293, 6-7=-143/293

1) Unbalanced roof live loads have been considered for

6-16=-343/105

Max Grav All reactions 250 (lb) or less at joint (s) 12, 13, 14, 15, 17, 18, 19, 20

except 16=261 (LC 12)

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

see Standard Industry Gable End Details as applic or consult qualified building designer as per ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	B02	Common Girder	1	3	Job Reference (optional)	156593915

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:46 ID:jLhBux9mAcJ61Clh22dGwbzDU?4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.9

# Plate Offsets (X, Y): [1:0-3-0,0-2-0], [7:0-3-0,0-6-1], [8:0-3-0,0-4-4], [9:0-3-0,0-4-4]

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 NO IRC2018	/TPI2014	CSI TC BC WB Matrix-MS	0.51 0.74 0.47	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.11 0.03	(loc) 8-9 8-9 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 325 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 Left 2x6 SP No.2 1 1-6-0 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=0-3-8, 7 Max Horiz 1=138 (LC Max Uplift 1=-69 (LC Max Grav 1=5132 (L) (b) Maximum Com	1-6-0, Right 2x6 SP N athing directly applied applied or 10-0-0 oc 7=0-3-8 C 7) :8), 7=-83 (LC 8) .C 14), 7=6362 (LC 1	4) lo.2 5) d or 6) 7) 3) 8)	Wind: ASCE Vasd=95mph B=45ft; L=24 <sup>4</sup> MWFRS (dire end vertical le plate grip DO This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Provide mech bearing plate 1 and 83 lb u This truss is o	7-16; Vult=120mph ; TCDL=6.0psf; BC (t; eave=4ft; Cat. II; ectional); cantilever aft and right expose L=1.60 s been designed fo d nonconcurrent wi as been designed fo chord in all areas y 2-00-00 wide will y other members, w nanical connection capable of withstar plift at joint 7. designed in accorde	n (3-sec CDL=6.0 Exp B left an- ed; Lun r a 10.0 ith any for a liv where fit betw with BC (by oth nding 6 ance w	ond gust) Dpsf; h=25ft; Enclosed; d right exposed; d right exposed; ber DOL=1.6 ) psf bottom other live load of 20.0 a rectangle veen the botto DL = 10.0psf ers) of truss tr 9 lb uplift at jo the the 2018 DE22 44 4 5	ed; 0 ds. )psf o pom o point					
TOP CHORD BOT CHORD WEBS <b>NOTES</b> 1) 3-ply truss (0.131"x3" Top chord oc. Bottom ch staggered Web conn 2) All loads a except if n CASE(S) s provided to unless oth 3) Unbalance this design	(ii) - Maximi Com Tension 1-3=-5067/108, 3-4= 4-5=-4925/193, 5-7= 1-9=-77/3510, 8-9=-: 4-8=-112/3524, 5-8= 3-9=-57/222 is to be connected togef 1) nails as follows: s connected as follows: s connected as follows: ords connected as follows: s connected as follows: ords connected as follows: ords connected as follows: s connected as follows: ords connected as follows: ords connected as follows: a considered equally interview of the follows: ords connected as follows: a considered as follows: a cons	-4893/193, -5092/109 3/2592, 7-8=-22/3476 -58/215, 4-9=-111/34 ther with 10d s: 2x4 - 1 row at 0-9-0 cows: 2x6 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ lections have been noted as (F) or (B), been considered for	9) 6 147, 1) AD	R802.10.2 ar Hanger(s) or provided suff Ib down and 2 up at 4-0-12 1451 Ib down 21 Ib up at 1 12-0-12, and bottom chord device(s) is ti <b>AD CASE(S)</b> Dead + Roo Plate Increa Uniform Loa Vert: 1-4= Concentrate Vert: 16= 20=-1271 23=-1271	di referenced stand other connection di cient to support coi 21 lb up at 2-0-12, 1453 lb down and and 21 lb up at 8- 0-0-12, and 1460 lb 1471 lb down and . The design/selec he responsibility of Standard f Live (balanced): L se=1.00 ids (lb/ft) -60, 4-7=-60, 10-1- d Loads (lb) -1277 (B), 18=-127 (B), 21=-1271 (B), (B)	4=-20 (1 (B), 21 lb u 0-12, 1 0 down 17 lb u tion of others. 24=-20	R302.11.1 a ) shall be ted load(s) 1- o down and 2 up at 6-0-12, 460 lb down - and 21 lb up o at 14-0-12 - such connect Increase=1.1 9=-1271 (B), 271 (B),	460 1 lb and at on ion 15,		Willing		SEAL O	

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



February 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	C01	Common Supported Gable	1	1	Job Reference (optional)	156593916

(s) 8, 9, 10, 11, 12

3-4=-141/283, 4-5=-142/284

1) Unbalanced roof live loads have been considered for

Wind: ASCE 7-16; Vult=120mph (3-second gust)

and right exposed ; end vertical left and right

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(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 4-6-8, Corner(3R) 4-6-8 to 7-6-8, Exterior(2N) 7-6-8 to 10-0-0 zone; cantilever left

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, or consult qualified building designer as per ANSI/TPI 1. All plates are 2x4 MT20 unless otherwise indicated.

4-10=-327/103

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Fri Feb 10 15:30:22 ID:pDxQIMhdHe41?9jnLo9GJtzDUGT-1\_yz20zXxvYs7t6j0447QfPmHAGisiAGcB6yrVzmVKG



Scale = 1:39.2

FORCES

WEBS NOTES

2)

3)

4)

TOP CHORD

this design.

DOL=1.60

<b>Loading</b> FCLL (roof) FCDL 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 IRC2018	3/TPI2014	CSI TC BC WB Matrix-MR	0.10 0.06 0.18	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: 57 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD WEBS DTHERS BRACING TOP CHORD BOT CHORD REACTIONS (lb) -	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. All bearings 9-1-0. Max Horiz 12=-131 (I Max Uplift All uplift 1	athing directly applie cept end verticals. applied or 10-0-0 oc LC 10) 00 (lb) or less at join	5) 6) 7) 8) d or 2 9) t(s) 10	Truss to be f braced agair Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall t chord and an Provide mec bearing plate joint(s) 12, 8 ) N/A ) This truss is	iully sheathed from ist lateral moven spaced at 2-0-0 is been designer ad nonconcurren nas been designer n chord in all are by 2-00-00 wide 'n y other member hanical connecti e capable of with , 11, 9.	orm one fac nent (i.e. d oc. d for a 10.0 t with any ed for a liv- cas where will fit betw s. on (by othe standing 1	e or securely iagonal web) 0 psf bottom other live loa e load of 20. a rectangle reen the bott ers) of truss i 00 lb uplift a th the 2018	/ ). Opsf om to t					

- 8, 9, 11, 12 Max Grav All reactions 250 (lb) or less at joint All reactions 250 (lb) or less at joint R802.10.2 and referenced standard ANSI/TPI 1.
  - LOAD CASE(S) Standard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	C02	Common Girder	1	2	Job Reference (optional)	156593917

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:47 ID:E\_vO75VqRW2Y58KMWng8tizDU1D-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38.2

# Plate Offsets (X, Y): [4:Edge,0-8-0], [5:0-4-0,0-6-0], [6:Edge,0-8-0]

Loading	(t	psf)	Spacing	2-0-0		CSI	0.47	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
I CLL (root)	2	0.0	Plate Grip DOL	1.00			0.47	Vert(LL)	-0.03	4-5	>999	240	MIZU	244/190	
	I	0.0	Lumber DOL Bon Stroop Inor	1.15 NO		BC	0.49		-0.05	4-5	>999	180	MI 1005	244/190	
	1	0.0	Codo			WD Matrix MS	0.74		0.00	4	II/a	II/a	Woight: 137 lb	ET - 20%	
BCDL		0.0	CODE	IRC2010	0/11/12/14	Wall IX-IVIS							weight. 137 lb	FT = 20%	
LUMBER FOP CHORD BOT CHORD	2x4 SP No.2 2x8 SP No.2			4)	Wind: ASCE Vasd=95mph B=45ft; L=24	7-16; Vult=120mph i; TCDL=6.0psf; BC ft; eave=4ft; Cat. II;	n (3-sec CDL=6.0 ; Exp B	cond gust) 0psf; h=25ft; ; Enclosed;							
NEBS	2x4 SP No.3 *	Except	t* 6-1,4-3:2x4 SP No	.2	MWFRS (dire	ectional); cantilever	r left an	d right expos	sed ;						
BRACING					end vertical le	eft and right expose	ed; Lun	nber DOL=1.	60						
TOP CHORD	Structural woo 6-0-0 oc purlin	od shea ns, exc	athing directly applied cept end verticals.	d or 5)	All plates are	MT20 plates unles	ss other	wise indicate	ed.						
BOT CHORD	Rigid ceiling d bracing.	lirectly	applied or 10-0-0 oc	6)	chord live loa	s been designed to id nonconcurrent w	vith any	other live loa	ads.						
REACTIONS	(size) 4=0	)-3-8, 6	=0-3-8	7)	<ul> <li>I his truss h</li> </ul>	as been designed	for a liv	e load of 20.	Upst						
	Max Horiz 6=-	107 (LC	C 6)		3-06-00 tall h	v 2-00-00 wide will	fit hetv	veen the bott	om						
	Max Grav 4=4	151 (L	C 13), 6=3113 (LC 1	4)	chord and an	y other members.	int bott								
ORCES	(lb) - Maximun Tension	n Com	pression/Maximum	8)	This truss is	designed in accord	ance w	ith the 2018	and						
TOP CHORD	1-2=-2796/0, 2	2-3=-27	796/0, 1-6=-2311/0,		R802.10.2 ar	nd referenced stand	dard AN	ISI/TPI 1.	anu						
	5-6=-1/520 4-	-5=0/54	18	9)	Hanger(s) or	other connection d	levice(s	s) shall be	1050						
NEBS	2-5=0/3595 1	-5=0/1	553 3-5=0/1448		Ib down at 2	-2-12 1656 lb dow	n ot 1	$2_{-12}$ and 16	56 lb						
	20 0.0000, 1	0 0/11			down at 6-2-	12, and 1659 lb dow	wn at	8-2-12 on bo	ttom						
1) 2-plv truss	s to be connected	d toaetl	her with 10d		chord. The d	lesign/selection of	such co	onnection dev	vice						
(0.131"x3'	') nails as follows	s:			(s) is the resp	consibility of others	i.								
Top chord	is connected as f	follows	: 2x4 - 1 row at 0-9-0	) LC	AD CASE(S)	Standard							minin	1111	
OC.				1)	Dead + Roc	of Live (balanced): I	Lumber	Increase=1.	.15,			-	WHY CA	Pall	
Bottom ch	ords connected	as follo	ows: 2x8 - 2 rows		Plate Increa	ise=1.00						1	21	01/11	
staggered	at 0-5-0 oc.	. 0.4	1 manual 0 0 0 00		Uniform Loa	ads (lb/ft)	~~					E	OWFESS	3. N/2	
	lected as follows	5: ZX4 -	1 row at 0-9-0 oc.		Vert: 1-2=	=-60, 2-3=-60, 4-6=	-20					71	1	No SI	1
2) All IOdus a	are considered ed	Quality a	applied to all plies,	חע	Concentrate		(D) 0-	4057 (D)					:0	A.	2
CASE(S)	section. Plv to pl	lv conn	ections have been		10=-1360	1357 (B), 8=-1357 ( ) (B)	(В), 9=-	1357 (В),			-		CEAL	6 - <b>1</b> .	
provided t	o distribute only	loads r	noted as (F) or (B),		101500	(0)					=	:	SEA	- :	1
unless oth	erwise indicated	i.											03632	22 :	-
3) Unbalance	ed roof live loads	s have	been considered for								-				Ξ
this desigr	n.											1	· ~	- ···	1
												3.5	NGINE	En	2
												14	710	THE AN	
												1	1 CA C	IL BY	

# this design.



GI 11111111 February 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	D01	Monopitch Supported Gable	2	1	Job Reference (optional)	156593918

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Fri Feb 10 15:30:52 ID:AEtxN8?C94h4JfVXXKTJd0zDVE1-dyKhZdL\_eQSTLe\_gK48OACB22gq3ckZqkW75QCzmVJn







5-10-8

Scale = 1:25.8													
Loading TCLL (roof) TCDL BCLL BCDI	(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 IRC2018	8/TPI2014	CSI TC BC WB Matrix-AS	0.13 0.11 0.07	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	<b>GRIP</b> 244/190 ET = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS (lb) -	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood she except end verticals Rigid ceiling directly All bearings 5-8-0. Max Horiz 2=61 (LC Max Uplift All uplift 1 2, 5, 6, 7 Max Grav All reactic (s) 2, 5, 7	6) 7) 8) ed, 9) nt(s) LC	Provide mec bearing plate joint(s) 5, 2, N/A This truss is International R802.10.2 a This truss de structural wo chord and 1/ the bottom c DAD CASE(S)	chanical conne e capable of w 6, 2. designed in a l Residential C asign requires bod sheathing (2" gypsum sh hord. Standard	ction (by oth ithstanding 1 ccordance wi vode sections standard AN that a minim be applied di eetrock be ap	ers) of truss 00 lb uplift a R502.11.1 a ISI/TPI 1. um of 7/16" rectly to the oplied directl	to t and top y to						
FORCES	(lb) - Max. Comp./M (lb) or less except w	ax. Ten All forces hen shown.	250										
NOTES 1) Wind: AS0 Vasd=95r B=45ft; L= MWFRS ( 2-1-8, Ext and right of	CE 7-16; Vult=120mph nph; TCDL=6.0psf; BC =24ft; eave=2ft; Cat. II; (directional) and C-C C ierior(2N) 2-1-8 to 5-8- exposed ; end vertical	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; orner(3E) -0-10-8 to 12 zone; cantilever la left and right	eft										11111

- 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 2) 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 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.

CHILDRAN MAN WILLIAM DE LA COMPANY SEAL 036322 G 400000 February 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	D02	Monopitch	6	1	Job Reference (optional)	156593919

5-10-8

-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. Fri Feb 10 12:31:47 ID:Lm9kNEMaJR14aD8FQgPPaXzDjUO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.7

# Plate Offsets (X, Y): [2:0-0-5,Edge]

	(psf)	Spacing	2-0-0		CSI	0.40	DEFL	in 0.02	(loc)	l/defl	L/d	PLATES	GRIP 244/190
	20.0		1.00		BC	0.40	Vert(CT)	-0.02	4-7	>000	180	11120	244/190
BCU	0.0*	Ren Stress Incr	VES		WB	0.20	Horz(CT)	-0.05	/ /	- 333 n/a	n/a		
BCDI	10.0	Codo	IDC2010	7.TDI2014	Matrix AS	0.00	11012(01)	0.00	-	n/a	n/a	Woight: 22 lb	ET - 20%
DODL	10.0	Code	11(02010	0/11 1201 <del>4</del>	Matrix-A0							Weight. 22 lb	11-2070
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 2=0-3-0, 4 Max Horiz 2=95 (LC Max Uplift 2=-11 (LC Max Grav 2=286 (LC	athing directly applied applied. 4=0-1-8 12) 2 12), 4=-14 (LC 12) C 1), 4=225 (LC 1)	6) 7) d. 8) LC	Provide mec bearing plate 2 and 14 lb ( This truss is International R802.10.2 a This truss de structural wo chord and 1/ the bottom c AD CASE(S)	hanical connection e capable of withs uplift at joint 4. designed in accor Residential Cod nd referenced stat sign requires the od sheathing be 2" gypsum sheet hord. Standard	on (by oth standing 1 ordance wi e sections andard AN at a minimi applied di trock be aj	ers) of truss i 1 lb uplift at j ith the 2018 R502.11.1 a ISI/TPI 1. um of 7/16" rectly to the oplied directly	to joint and top y to					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/17, 2-3=-169/4	43, 3-4=-136/118											
BOT CHORD	2-4=-92/137												
NOTES													
<ol> <li>Wind: ASG Vasd=95n B=45ft; L= MWFRS ( 2-1-8, Inte and right exposed;( reactions DOL=160 2) This truss chord live</li> </ol>	CE 7-16; Vult=120mph nph; TCDL=6.0psf; BC :24ft; eave=4ft; Cat. II; directional) and C-C E: rrior (1) 2-1-8 to 5-8-12 exposed ; end vertical I C-C for members and fi shown; Lumber DOL=' ) has been designed for load nonconcurrent with	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior(2E) -0-10-8 to 2 zone; cantilever left left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load	c							4		OR FESS	ROLIN

- \* This truss has been designed for a live load of 20.0psf 3) 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. 4)
- Provide mechanical connection (by others) of truss to 5) bearing plate at joint(s) 2, 4.

Konner and Anna Q SEAL 036322 GI 11111111 February 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	E01	Monopitch Supported Gable	1	1	Job Reference (optional)	156593920

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Fri Feb 10 15:31:34 ID:xd445izF1X0Bj\_UcYo3iMTzDUoy-O1sZN\_sKIKIVO5BlovuEt3xDGb6mSky0O2IJvmzmVJ7

2x4 II

5-10-0

2x4 II

February 11,2023

Page: 1



3x4 =

Scale = 1:25.7

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 IRC2018	8/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.21 0.38 0.07	<b>DEFL</b> 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: 23 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS (lb) -	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she: except end verticals. Rigid ceiling directly All bearings 5-9-8. Max Horiz 2=61 (LC Max Uplift All uplift 1 2, 7 Max Grav All reaction (s) 2, 5, 7 (lb) - Max. Comp./Mi	athing directly applie applied. 11), 7=61 (LC 11) 00 (lb) or less at join ns 250 (lb) or less at join except 6=314 (LC 1) ax. Ten All forces 2	6) 7) 8) d, 9) t(s) LC t joint 550	Provide mecl bearing plate joint(s) 2, 2. N/A This truss is 4 International R802.10.2 ar This truss de structural wo chord and 1/2 the bottom cl PAD CASE(S)	hanical connection capable of withsta designed in accord Residential Code s do referenced stan sign requires that a od sheathing be ap " gypsum sheetro hord. Standard	(by oth anding 1 lance w sections dard AN a minim oplied di ck be a	ers) of truss t 00 lb uplift at ith the 2018 i R502.11.1 a ISJ/TPI 1. um of 7/16" irectly to the t oplied directly	o nd op / to						
	(lb) or less except w	hen shown.												
1) Wind: AS( Vasd=95n B=45ft; L= MWFRS ( 2-2-0, Ext and right e exposed; reactions : DOL =1 60	CE 7-16; Vult=120mph nph; TCDL=6.0psf; BC :24ft; eave=2ft; Cat. II; directional) and C-C C erior(2N) 2-2-0 to 5-8-4 exposed ; end vertical I 3-C for members and for shown; Lumber DOL=1	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; orner(3E) -0-10-0 to 4 zone; cantilever left eft and right orces & MWFRS for 1.60 plate grip	t								- III	WITH CA	ROUT	
<ol> <li>2) Truss des only. For see Stand or consult</li> </ol>	signed for wind loads ir studs exposed to wind ard Industry Gable End qualified building desig	n the plane of the trus (normal to the face), d Details as applicab gner as per ANSI/TP	ss , le, I 1.							Jun 1		SEA	L	
<ul> <li>Gable Stud</li> <li>This truss</li> <li>chord live</li> </ul>	has been designed for	a 10.0 psf bottom	le							111		0363	22	
5) * This trus	s has been designed for	or a live load of 20.0	psf							-	1	·	A 1. 3	

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 - Honeysuckle A Roof	
Q2200854	E02	Monopitch	6	1	Job Reference (optional)	156593921

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:48 ID:bFeaeLpAQXh4yAl3siRwAAzDjtc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

0-3-8



3x4 =



Scale = 1:28.5

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

			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	0.39	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.27	Vert(CT)	-0.05	4-7	>999	180		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL		10.0	Code	IRC2018/	/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%
				6)	Provide med	anical connection	(by oth	ers) of truss	to					
	2v4 SP N	<u>,</u> 2		0)	bearing plate	capable of withsta	andina 1	1 lb uplift at	ioint					
BOT CHORD	2x4 SP No	2.2 2			2 and 14 lb u	plift at joint 4.		i io apint at	Joint					
OTHERS	2x4 SP No	2.2 2		7)	This truss is	designed in accord	dance w	ith the 2018						
BRACING		J.L		,	International	Residential Code	sections	R502.11.1 a	and					
	Structural	wood she	athing directly applied	4	R802.10.2 ar	nd referenced stan	dard AN	ISI/TPI 1.						
BOT CHORD	Rigid ceili	na directly	annlied	. 8)	This truss de	sign requires that a	a minim	um of 7/16"						
BEACTIONS		2-0 2 9 /			structural wo	od sheathing be ap	pplied d	rectly to the	top					
REACTIONS	(SIZE)	2-0-3-0, 4	12)		chord and 1/2	2" gypsum sheetro	ock be a	oplied directl	y to					
	Max Liplift	2-94 (LC	(12)		the bottom cl	nord.								
	Max Grav	2=282 (LC	C 1), 4=222 (LC 1)	LO	AD CASE(S)	Standard								
FORCES	(lb) - Maxi	mum Com	pression/Maximum											
	Tension													
TOP CHORD	1-2=0/17,	2-3=-166/	42, 3-4=-134/117											
BOT CHORD	2-4=-91/1	35												
NOTES														
1) Wind: AS	CE 7-16; Vul	t=120mph	(3-second gust)											
Vasd=95r	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=25ft;											
B=45ft; L=	=24ft; eave=4	4ft; Cat. II;	Exp B; Enclosed;											
MWFRS (	directional)	and C-C E	xterior(2E) -0-10-8 to											
2-1-8, Inte	erior (1) 2-1-8	3 to 5-7-12	zone; cantilever left											
and right of	exposed ; en	id vertical I	eft and right											1111
exposed;	S-C for mem	bers and to	DICES & IVIVVERS TOF										N'TH CA	Bally
	SHOWH, LUIH	Del DOL-	1.00 plate grip									1	R	S. S. Later
2) This trues	, has been de	seigned for	a 10.0 pef bottom									<u> </u>	FESO	Que in
chord live	load noncor	current wi	th any other live load	2							4	1	It I	Sin 1
3) * This trus	s has been	designed f	or a live load of 20 0n	sf								-		
on the bot	tom chord ir	all areas	where a rectangle								-	:	SEA	1 : =
3-06-00 ta	all by 2-00-00	) wide will	fit between the botton	n							=		JLA	5 5 5
chord and	l any other m	nembers.									=		0363	22 : =
4) Bearing a	t joint(s) 4 co	onsiders pa	arallel to grain value									i (		1 E -
using ANS	SI/TPI 1 angl	e to grain	formula. Building									1	·	- 1 S
designer s	should verify	capacity c	f bearing surface.									2.0	NO.	Ethick
5) Provide m	echanical co	onnection (	by others) of truss to									1	A GIN	1. 15
bearing pl	ate at joint(s	) 4.										1	CA O	II BEN'

- 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.
- 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.



GI 11111111 February 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	E03	Half Hip	4	1	Job Reference (optional)	156593922

-0-10-8 0-10-8

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

# Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Fri Feb 10 15:33:47 ID:SrJh3qF\_0hWkd9uUX?czcBzDUNU-?cPrHTTIRBWerXsJ4LnQm6xoJCVg7sWa\_F0r4ZzmVH2

5-9-8

1-3-8

1-5-4



3x6 = 2x4 u 12 4 Г 3 0-8-3 8 11 ſ¢





0-4-3



4-4-4

4-6-0

4-6-0



# Scale = 1:27.2

# Plate Offsets (X, Y): [2:0-0-9,0-0-4]

2-1-3

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	0.81	Vert(LL)	0.02	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.33	Vert(CT)	-0.05	7-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.22	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-MP							Weight: 24 lb	FT = 20%
ICDL BCLL BCDL IUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design B=45ft; L= MWFRS ( 2-1-8, Inte and right e exposed; C DL=1.60 3) Provide ac 4) This truss on the bot 3-06-00 ta 3-06-00 ta 3-06-000 ta 3-06-000 ta 3-06-000 ta 3-06-000 ta 3-06-000 ta 3-06-000 ta 3	10.0 0.0* 10.0 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep Structural wood she 5-9-8 oc purlins; ex 2-0-0 oc purlins; ex 2-0-0 oc purlins; ex 2-0-0 cc purlins; ex 2-11=-524/0, 3-11=- 2-7=0/483, 6-7=0/82 4-6=-988/0 ed roof live loads have 1. CE 7-16; Vult=120mph nph; TCDL=6.0psf; BC 2-C for members and f directional) and C-C E exposed; end vertical I 2-C for members and f shown; Lumber DOL=-0 dequate drainage to pr has been designed for load nonconcurrent wi s has been designed for tom chord in all areas II by 2-00-00 wide will	t* 3-7:2x4 SP No.2 athing directly applied cept end verticals, an , 4-5. applied or 10-0-0 oc 3-8, 6=616/ Mechanic 9) C 1), 6=661 (LC 17) ax. Ten All forces 2 hen shown. 499/0, 3-4=-424/0 20 been considered for (3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior(2E) -0-10-8 to ter and right orces & MWFRS for 1.60 plate grip event water ponding. r a 10.0 psf bottom th any other live load of a live load of 20.0p where a rectangle fit between the bottor	s. s. s. s. s. s. s. s. s. s.	<ul> <li>18/TPI2014</li> <li>This truss is International R802.10.2 ai</li> <li>Load case(si designer mu- correct for the or the orienta bottom chore.</li> <li>CAD CASE(S)</li> <li>Dead + Roor Plate Increa Uniform Loi Vert: 1-3 Concentrata Vert: 3=-</li> <li>Dead + 0.7 Lumber Inco Uniform Loi Vert: 1-3 Concentrata Vert: 3=-</li> </ul>	BC WB Matrix-MP designed in accord Residential Code s not referenced stam. 1, 2 has/have bee st review loads to v e intended use of t riln representation ation of the purlin a standard of Live (balanced): asse=1.00 ads (lb/ft) =-60, 4-5=-90, 6-8= ed Loads (lb) 467 5 Roof Live (balance rease=1.15, Plate I ads (lb/ft) =-50, 4-5=-140, 6-5 ed Loads (lb) 467	0.33 0.22 ance w sections dard AN n modifi erify that his truss does not ong the Lumber =-20 sed) + 0 ncrease s=-20	Vert(CT) Horz(CT) ith the 2018 R502.11.1 a (SI/TPI 1. ied. Building at they are s. to depict the s top and/or Increase=1. .75 Attic Floo ==1.00	-0.05 0.00	6	>999 n/a		Weight: 24 lb	FT = 20%
6) Refer to gi	irder(s) for truss to trus	ss connections.										February	/ 11,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V01	Valley	1	1	Job Reference (optional)	156593923

1-6-15

1-6-15

2x4 🥠

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. Fri Feb 10 12:31:49 ID:cpezMJIq8mRCoO7GNBxJTnzDjQ?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-10-6

1-3-8

3x4 =



3-1-13 Spacing 2-0-0 CSI DEFL in (loc) Plate Grip DOL 1.00 TC 0.07 Vert(LL) n/a Lumber DOL 1.15 BC 0.10 Vert(TL) n/a Rep Stress Incr YES WB 0.00 Horiz(TL) 3 0.00 IRC2018/TPI2014 Matrix-MP 7) \* 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 8) Structural wood sheathing directly applied or bearing plate capable of withstanding 1 lb uplift at joint 1 and 1 lb uplift at joint 3. Rigid ceiling directly applied or 10-0-0 oc 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 1=3-1-13, 3=3-1-13 R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard Max Uplift 1=-1 (LC 12), 3=-1 (LC 12) Max Grav 1=126 (LC 1), 3=126 (LC 1) (Ib) - Maximum Compression/Maximum

BOT CHORD

FORCES

NOTES

TOP CHORD

Scale = 1:24.4

Loading

TCDL

BCLL

BCDL

LUMBER

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

REACTIONS

TCLL (roof)

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

2x4 SP No.2

2x4 SP No.3

bracing.

Tension

1-3=-48/109

(size)

3-1-13 oc purlins.

Max Horiz 1=27 (LC 11)

(psf)

20.0

10.0

10.0

0.0\*

Code

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

1-2=-153/69, 2-3=-153/71

- 2) Wind: ASCE 7-16; 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(2E) 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
- 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.

Gable requires continuous bottom chord bearing. 4)

Gable studs spaced at 6-0-0 oc. 5)

This truss has been designed for a 10.0 psf bottom 6) 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 russ web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual russ web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual russ web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of frusses and russ 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



2x4 💊

3

l/defl

n/a

n/a 999

n/a n/a

L/d

999

PLATES

Weight: 10 lb

MT20

GRIP

244/190

FT = 20%

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V02	Valley	1	1	Job Reference (optional)	156593924

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:49 ID:YxEICBaQg9YKV5UN?YAnMdzDjQE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-5-13





Scale = 1:28.1

Plate Offsets (X, Y): [2:0-2-0,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 IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.20 0.31 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 18 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 BRACING TOP CHORD Structural wood shear 5-5-13 oc purlins. BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 1=5-5-13, Max Horiz 1=49 (LC Max Uplift 1=-2 (LC Max Grav 1=219 (LC FORCES (lb) - Maximum Com Tension TOP CHORD 1-2=-282/95, 2-3=-20 BOT CHORD 1-3=-83/202 NOTES 1) Unbalanced roof live loads have this design. 2) Wind: ASCE 7-16; Vult=120mph Vasd=95mph; TCDL=6.0psf; BC B=45ft; L=24ft; eave=4ft; Cat. II; MWFRS (directional) and C-C E: cantilever left and right exposed right exposed; C- C for members a for reactions shown; Lumber DO DOL=1.60 3) Truss designed for wind loads ir only. For studs exposed to wind see Standard Industry Gable Env or consult qualified building desig 4) Gable requires continuous bottor 5) Gable studs spaced at 6-0-0 oc. 6) This truss has been designed for chord live load nonconcurrent wi	athing directly applied applied or 10-0-0 oc 3=5-5-13 11) 12), 3=-2 (LC 12) C 1), 3=219 (LC 1) pression/Maximum 82/99 been considered for (3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior(2E) zone; ; end vertical left and and forces & MWFRS L=1.60 plate grip n the plane of the trus (normal to the face), d Details as applicabl gner as per ANSI/TPI m chord bearing. r a 10.0 psf bottom th any other live load:	7) * This trus on the bol 3-06-00 ta chord and 8) Provide m bearing pl and 2 lb u 9) This truss Internation R802.10.2 LOAD CASE( SS le, 11.	s has been designe tom chord in all area Il by 2-00-00 wide w any other members echanical connectio ate capable of withs olift at joint 3. is designed in accou- nal Residential Code and referenced sta <b>S</b> ) Standard	d for a liv as where rill fit betw n (by oth tanding 2 rdance w e sections ndard AN	e load of 20.0 a rectangle veen the bottc ers) of truss tr Ib uplift at joi th the 2018 R502.11.1 ar SI/TPI 1.	psf om ont 1 nd				SEA 0363	RO 22 E.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F	



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V03	Valley	1	1	Job Reference (optional)	156593925

3-11-3

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:49 ID:YfiseNMmgxPlyUg6VTNoA2zDjQV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:32.7

		-			-								
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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.33	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.12	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-MP							Weight: 32 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood shu 7-9-13 oc purlins. Rigid ceiling directl	eathing directly applied y applied or 6-0-0 oc	6) 7) or 8)	This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Provide med bearing plate	s been designed ad nonconcurrer has been design in chord in all are by 2-00-00 wide by other member hanical connect capable of with at juit 2 and 6	d for a 10.1 at with any ed for a liv eas where will fit betw rs. on (by oth standing 1	0 psf bottom other live loa e load of 20.1 a rectangle veen the botth ers) of truss t 4 lb uplift at j	ads. Opsf om to joint					
REACTIONS	bracing. (size) 1=7-9-13 Max Horiz 1=71 (LC Max Uplift 1=-14 (L	8, 3=7-9-13, 4=7-9-13 C 11) C 24), 3=-14 (LC 23),	9) LO	This truss is International R802.10.2 ar	designed in acc Residential Coc nd referenced st Standard	ordance w le sections andard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	and					

	4=-62 (LC 12)
Max Grav	1=64 (LC 23), 3=64 (LC 24), 4=558
	(LC 1)
(lb) Max	inauna Cananzaacian/Mauinauna

#### (Ib) - Maximum Compression/Maximum FORCES Tension TOP CHORD 1-2=-132/209, 2-3=-120/209

BOT CHORD 1-4=-164/190, 3-4=-164/190 2-4=-403/245 WEBS

## NOTES

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

Wind: ASCE 7-16; Vult=120mph (3-second gust) 2) 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(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-11-3, Exterior(2R) 3-11-3 to 7-1-14, Interior (1) 7-1-14 to 7-10-1 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

- 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.
- Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 6-0-0 oc.



Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V04	Valley	1	1	Job Reference (optional)	156593926

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:50 ID:vM\_K7GDEVFuSWemooy9\_hWzDjQh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale	= 1.30	3
Scale	- 1.39.	3

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	8/TPI2014	CSI TC BC WB Matrix-MS	0.31 0.48 0.26	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 42 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.3 2x4 SP No.3 Structural wood she 10-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=10-1-1: Max Horiz 1=94 (LC Max Uplift 1=-34 (LC 4=-88 (LC Max Grav 1=68 (LC (LC 1)	athing directly applied applied or 6-0-0 oc 3, 3=10-1-13, 4=10-1- 11) 2 24), 3=-34 (LC 23), 2 12) 2 3), 3=68 (LC 24), 4=	6) 7) <sup>I or</sup> 8) 13 <sup>9)</sup> 13 <b>L</b>	<ul> <li>This truss ha chord live loa</li> <li>* This truss h on the botton</li> <li>3-06-00 tall b chord and an</li> <li>Provide med</li> <li>bearing plate</li> <li>1, 34 lb uplift</li> <li>This truss is</li> <li>International</li> <li>R802.10.2 ar</li> <li>DAD CASE(S)</li> </ul>	s been designed f ad nonconcurrent v las been designed n chord in all areas by 2-00-00 wide wi y other members. hanical connection capable of withsta at joint 3 and 88 ll designed in accord Residential Code nd referenced stan Standard	or a 10.0 with any for a liv s where Il fit betw (by oth anding 3 b uplift a dance w sections dard AN	b) psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss to 4 lb uplift at jo t joint 4. ith the 2018 R502.11.1 ar ISI/TPI 1.	ls. psf m o int					
	(lb) - Maximum Com Tension	pression/Maximum											
BOT CHORD	1-4=-207/247, 3-4=-	207/247											
WEBS	2-4=-58//367												

NOTES

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

Wind: ASCE 7-16; Vult=120mph (3-second gust) 2) 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(3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 5-1-3, Corner(3R) 5-1-3 to 8-1-3, Exterior(2N) 8-1-3 to 10-2-1 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

- 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.



Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V05	Valley	1	1	Job Reference (optional)	156593927

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:50 ID:ckXF43xA9tsseywBOvjMjSzDjR3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

12-5-13 || 0-3-7 6-2-15 12-2-6 6-2-15 5-11-8 4x5= 3 2x4 II 2x4 II 5-11-8 6-3-3 13 14 2 4 12 12 Г 5 0-0-4 8 7 6 2x4 II 2x4 II 2x4 II 3x4 🕢 3x4 💊 12-5-13

Scale = 1:44.4

TCLL (roof) TCDL BCLL BCDL		20.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr Code	1.00 1.15 YES IRC2	2018/TPI2014	TC BC WB Matrix-MS	0.19 0.12 0.10	Vert(LL) Vert(TL) Horiz(TL)	n/a n/a 0.00	5	n/a n/a n/a	999 999 n/a	MT20 Weight: 57 lb	244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	UMBER           OP CHORD         2x4 SP No.2           30T CHORD         2x4 SP No.2           DTHERS         2x4 SP No.3           SRACING         Structural wood sheathing directly applied o 6-0-0 oc purlins.           30T CHORD         Structural wood sheathing directly applied or 10-0-0 oc bracing.           REACTIONS         (size)         1=12-5-13, 5=12-5-13, 6=12-5-13 7=12-5-13, 8=12-5-13           Max Horiz         1=116 (LC 11)         Max Uplift           Max Grav         1=112 (LC 18), 5=91 (LC 12), 6=325 (LC 18), 7=232 (LC 1), 9=232 (LC 18), 7=232 (LC 1),				<ol> <li>Truss desig only. For stu- see Standard or consult qu</li> <li>Gable studs</li> <li>Gable studs</li> <li>This truss hon the bottor 3-06-00 tall l chord and ar</li> <li>Provide mec bearing plate 1, 87 lb upliff</li> <li>This truss is International B802 10.2 a</li> </ol>	ned for wind loads uds exposed to wird d Industry Gable E alified building de es continuous bott spaced at 4-0-0 o as been designed ad nonconcurrent as been designed n chord in all area by 2-00-00 wide w ny other members shanical connection e capable of withst t at joint 8 and 87 designed in accor Residential Code nd referenced star	s in the p and (norm End Deta signer as signer as tom chor c. for a 10.1 with any d for a liv s where ill fit betv n (by oth canding 2 b uplift a dance w sections orderd AD	lane of the tru al to the face) ils as applicat s per ANSI/TF d bearing. D psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss tr 5 lb uplift at jo tt joint 6. ith the 2018 s R502.1.1.1 a ISU/TP1 1	ss , pole, rl 1. ds. psf m point					
FORCES	(lb) - Max Tension	imum Com	pression/Maximum		LOAD CASE(S)	Standard		<b>1</b> 01/1111.						
TOP CHORD	1-2=-130/ 4-5=-112/	'105, 2-3 <b>=</b> - '72	152/135, 3-4=-145/13	5,										
BOT CHORD	1-8=-37/1 5-6=-37/1	08, 7-8=-3 08	7/108, 6-7=-37/108,											
WEBS	3-7=-148/	0, 2-8=-26	2/284, 4-6=-261/283											11111
1) Unbalance	ed roof live I	oads have	been considered for									S	ATHUA	TOLIN

 Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) 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(3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 6-3-3, Corner(3R) 6-3-3 to 9-3-3, Exterior(2N) 9-3-3 to 12-6-1 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



Page: 1



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V06	Valley	1	1	Job Reference (optional)	156593928

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:51

Page: 1

ID:rwWorWdV2CjP86WOQ9mVCAzDjRS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 14-9-13 || 0-3-7 7-4-15 14-6-6 7-4-15 7-1-8 4x5 = 3 7-1-8 2x4 II 2x4 II 7-5-3 2 4 13 14 12 12 Г 5 ÷ 8 15 16 6 7 3x4 🕢 2x4 u 2x4 u 2x4 II 3x4 💊

14-9-13

Scale = 1:49.5

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 IRC20	018/TPI2014	CSI TC BC WB Matrix-MS	0.21 0.17 0.20	DEFL Vert(LL) Vert(TL) Horiz(TL)	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: 71 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 s 6-0-0 oc purlins. Rigid ceiling direc bracing. (size) 1=14-9 7=14-9 Max Horiz 1=-138 Max Uplift 1=-14 ( 8=-100 Max Grav 1=139 6=448 8=452	heathing directly applie tly applied or 6-0-0 oc -13, 5=14-9-13, 6=14-9 -13, 8=14-9-13 (LC 10), 6=-100 (LC 12 (LC 12) (LC 18), 5=115 (LC 17 (LC 18), 7=406 (LC 17 (LC 17)	ed or 9-13, ?), ),	<ol> <li>Truss desig only. For str see Standar or consult qu</li> <li>Gable requir</li> <li>Gable studs</li> <li>This truss ha chord live lo</li> <li>* This truss lo</li> <li>on the botton 3-06-00 tall 1</li> <li>chord and ai</li> <li>Provide mec bearing plate 1, 100 lb upl</li> <li>This truss is International 8802 10 2 a</li> </ol>	ned for wind loa uds exposed to d Industry Gabl Jalified building res continuous h spaced at 4-0-1 as been designe ad nonconcurre has been design m chord in all at by 2-00-00 widd hanical connect e capable of witt ift at joint 8 and designed in ac I Residential Con	ads in the p wind (norm e End Deta designer a oottom chor 0 oc. ed for a 10.1 nt with any ned for a 10.1 nt with any ned for a liv reas where e will fit betw ers, with BC tion (by oth hstanding 1 100 lb upli cordance w de sections standard AN	lane of the tr al to the face ils as applica s per ANSI/T d bearing. D psf bottom other live loa e load of 20. a rectangle veen the bott CDL = 10.0ps 4 lb uplift at ft at joint 6. ith the 2018 s R502.11.1 is SI/TPI 1	uss a), ble, PI 1. ads. Opsf f. to joint and					
FORCES	(lb) - Maximum C Tension	ompression/Maximum		LOAD CASE(S)	Standard								
TOP CHORD	1-2=-154/151, 2-3 4-5=-130/121	=-108/126, 3-4=-97/12	27,										
BOT CHORD	1-8=-68/146, 7-8= 5-6=-68/146	-68/146, 6-7=-68/146,											
WEBS NOTES	3-7=-212/0, 2-8=-	279/265, 4-6=-278/264	ļ									TH CA	RO

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) 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(3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 7-5-3, Corner(3R) 7-5-3 to 10-5-3, Exterior(2N) 10-5-3 to 14-10-1 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



SEAL

036322

G 11111111 February 11,2023 WWWWWWWW

Von and and the

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V07	Valley	1	1	Job Reference (optional)	156593929

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:51 ID:7?v1k5VDP7SqxZITr3b9o3zDjRc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

February 11,2023

818 Soundside Road Edenton, NC 27932







2x4 🧳 2x4 💊

1-10-13	

Scale = 1:24.7

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

Loading (psf) TCLL (roof) 20.0	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC 0.	02 Vert(LL)	in (lo n/a	oc) l/defl - n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.	05 Vert(TL)	n/a	- n/a	999		
BCLL 0.0*	Rep Stress Incr	YES	WB 0.	00 Horiz(TL)	0.00	3 n/a	n/a		
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-MP					Weight: 6 lb	FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 BRACING TOP CHORD Structural wood shear 1-10-13 oc purlins. BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 1=1-10-13 Max Horiz 1=-15 (LC Max Uplift 1=-1 (LC 1 Max Grav 1=76 (LC) FORCES (lb) - Maximum Comp Tension TOP CHORD 1-2=85/43, 2-3=-85/- BOT CHORD 1-3=-20/59 NOTES 1) Unbalanced roof live loads have I this design. 2) Wind: ASCE 7-16; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCI B=45ft; L=24ft; eave=4ft; Cat. II; I MWFRS (directional) and C-C Ex cantilever left and right exposed ; right exposed; C-C for members a for reactions shown; Lumber DOI DOL=1.60 3) Truss designed for wind loads in only. For studs exposed to wind see Standard Industry Gable Enc or consult qualified building desig 4) Gable requires continuous botton 5) Gable studs spaced at 2-0-0 oc. 6) This truss has been designed for chord live load nonconcurrent wit	athing directly applied applied or 10-0-0 oc , 3=1-10-13 10) 12), 3=-1 (LC 12) 1), 3=76 (LC 1) pression/Maximum 44 been considered for (3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; terior(2E) zone; end vertical left and and forces & MWFRS L=1.60 plate grip the plane of the truss (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	7) * This truss I on the botton 3-06-00 tall I chord and ar 8) Provide mec bearing plate and 1 lb upli 9) This truss is International R802.10.2 a LOAD CASE(S) s e, 1.	has been designed for a m chord in all areas wh by 2-00-00 wide will fit I y other members. chanical connection (by e capable of withstandir ft at joint 3. designed in accordanc I Residential Code sect ind referenced standard Standard	a live load of 20.0 ere a rectangle between the botto others) of truss t ig 1 lb uplift at joi e with the 2018 ions R502.11.1 a I ANSI/TPI 1.	Dpsf om to int 1			SEA 0363	EER. R. Internet

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V08	Valley	1	1	Job Reference (optional)	156593930

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:51 ID:j9iTYFGh6\_xfYVDdgsET\_rzDjRw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-2-13

Page: 1



Scale = 1:26.5

Plate Offsets (X, Y): [2:0-2-0,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 IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.12 0.18 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 14 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 BRACING TOP CHORD Structural wood she 4-2-13 oc purlins. BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 1=4-2-13 Max Horiz 1=-37 (LC Max Uplift 1=-1 (LC Max Uplift 1=-1 (LC (Ib) - Maximum Com Tension TOP CHORD 1-2=-212/83, 2-3=-2 BOT CHORD 1-3=-66/152 NOTES 1) Unbalanced roof live loads have this design. 2) Wind: ASCE 7-16; Vult=120mpt Vasd=95mph; TCDL=6.0psf; BC B=45ft; L=24ft; eave=4ft; Cat. II; MWFRS (directional) and C-C E cantilever left and right exposed right exposed;C-C for members for reactions shown; Lumber DC DOL=1.60 3) Truss designed for wind loads i only. For studs exposed to wind see Standard Industry Gable Er or consult qualified building desi 4) Gable requires continuous botto 5) Gable studs spaced at 6-0-0 oc. 6) This truss has been designed for chord live load nonconcurrent w	eathing directly applied y applied or 10-0-0 oc , 3=4-2-13 C 10) 12), 3=-1 (LC 12) C 1), 3=169 (LC 1) npression/Maximum 212/86 e been considered for n (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; xterior(2E) zone; ; end vertical left and and forces & MWFRS DL=1.60 plate grip n the plane of the trus d (normal to the face), id Details as applicable igner as per ANSI/TPI m chord bearing. r a 10.0 psf bottom ith any other live loads	7) * This truss on the botto 3-06-00 tall chord and a 8) Provide me bearing pla and 1 lb up 9) This truss is Internationa R802.10.2 : LOAD CASE(S s s e, 1.	has been designed m chord in all areas by 2-00-00 wide wi iny other members. chanical connectior e capable of withsta ift at joint 3. s designed in accord il Residential Code and referenced stan ) Standard	for a liv s where Il fit betv (by oth anding 1 dance w sections dard AN	e load of 20.0p a rectangle veen the bottor ers) of truss to Ib uplift at join ith the 2018 R502.11.1 an ISI/TPI 1.	osf m it 1 d		With the second s		SEA 0363	RO(11 22 EER.H. 11,2023	

ENGINEERING BY EREALCO AMITER Attiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V09	Valley	1	1	Job Reference (optional)	156593931

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:51 ID:B4kQBn4et3wwd1?YkVyiKTzDjSA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.2

Loa	ading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCI	L (roof)		20.0	Plate Grip DOL	1.00		TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCI	DL		10.0	Lumber DOL	1.15		BC	0.25	Vert(TL)	n/a	-	n/a	999			
BCI	LL		0.0*	Rep Stress Incr	YES		WB	0.07	Horiz(TL)	0.00	3	n/a	n/a			
BCI	DL		10.0	Code	IRC201	8/TPI2014	Matrix-MP							Weight: 26 lb	FT = 20%	
LUI BO OTI BR TOI BO	MBER P CHORD T CHORD HERS ACING P CHORD T CHORD ACTIONS	2x4 SP No 2x4 SP No 2x4 SP No Structural \ 6-6-13 oc   Rigid ceilin bracing. (size)	.2 .3 .3 wood shea purlins. Ig directly 1=6-6-13,	athing directly applie applied or 6-0-0 oc 3=6-6-13, 4=6-6-13	7) 8) d or 9)	<ul> <li>* This truss h on the botton 3-06-00 tall b chord and an</li> <li>Provide meci bearing plate</li> <li>This truss is International R802.10.2 ar</li> </ul>	as been designed n chord in all area: y 2-00-00 wide wi y other members. nanical connectior capable of withst designed in accord Residential Code nd referenced star	I for a liv s where II fit betw n (by oth anding 4 dance wi sections ndard AN	e load of 20.0 a rectangle veen the botto ers) of truss t 0 lb uplift at ju ith the 2018 R502.11.1 a ISI/TPI 1.	Dpsf om oint nd						
		Max Horiz Max Uplift Max Grav	1=-59 (LC 4=-40 (LC 1=67 (LC (LC 1)	10) 12) 23), 3=67 (LC 24), 4	L0 =434	OAD CASE(S)	Standard									
FOI	RCES	(lb) - Maxir Tension	num Com	pression/Maximum												
то	P CHORD	1-2=-96/15	1. 2-3=-76	6/149												
BO	T CHORD	1-4=-123/1	35 3-4=-	123/135												
WE	BS	2-4=-299/1	93	20,100												
NO	TES															
1)	Unbalance	ed roof live lo	ads have	been considered for												
	this design	ı.														
2)	Wind: ASC	CE 7-16; Vult	=120mph	(3-second gust)											111.	
	Vasd=95m	nph; TCDL=6	.0psf; BC	DL=6.0psf; h=25ft;										N''LL CA	D'''	
	B=45ft; L=	24ft; eave=4	ft; Cat. II;	Exp B; Enclosed;										THUA	ROIL	÷
	MWFRS (d	directional) a	nd C-C Ex	kterior(2E) zone;									A	n EQ	in Al	1
	cantilever	left and right	exposed	; end vertical left and								/	53	A FEE	NZ V	in
	right expos	sed;C-C for r	nembers a	and forces & MWFR	5							4	D		120	11
	for reaction	ns snown; Lu	imber DO	L=1.60 plate grip								-	с . р	.4		6
	DOL=1.60											-		SFA	L 🕴	=
3)	Truss des	signed for wir	id loads in	the plane of the true	S							=			5.	- E
		sidus expose	cable Free	(nonnal to the face),								=		0363	22	Ξ
	see Stand	aru industry	Gable End		e,							-	i (			- 3
4)		qualified Dull		Jilei as per ANSI/TP	1.								1	1		3
4) 5)	Cable requ			n chord bearing.									10	N. SNOW	-ER. X	2
5) (C	Gable stud	us spaced at	0-U-U 0C.	a 10.0 paf hatt									1	S, GIN	Er. A	N
0)	obord live	nas been de	signed for	a 10.0 pst bottom	•								1	CA -	BEN	Č.
	CHORD IIVA	IDAO HOHCON	curreni wa	in any oner live load	5											

- 4) Gable requires continuous bottom chord bearing. Gable studs spaced at 6-0-0 oc. 5)
- 6) 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



GI //////// February 11,2023

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Honeysuckle A Roof	
Q2200854	V10	Valley	1	1	Job Reference (optional)	156593932

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Fri Feb 10 12:31:52 ID:7fHuu1UvQ0ltFVI7MiZDr8zDjSx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:34.9

-

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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL		10.0	Lumber DOL	1.15		BC	0.47	Vert(TL)	n/a	-	n/a	999			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.18	Horiz(TL)	0.00	3	n/a	n/a			
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-MP							Weight: 36 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wo 8-10-13 oc pu Rigid ceiling o bracing	od shea urlins. directly	athing directly applied	6) 7) 1 or 8)	<ul> <li>This truss ha chord live loa</li> <li>* This truss h on the botton</li> <li>3-06-00 tall b</li> <li>chord and ar</li> <li>Provide mech</li> <li>bearing plate</li> <li>1, 31 lb uplift</li> </ul>	s been designed ad nonconcurren has been designe n chord in all are y 2-00-00 wide v y other member hanical connection capable of with at joint 3 and 86	for a 10.0 t with any ed for a liv as where will fit betw s. on (by oth standing 3 b buplift a	0 psf bottom other live loa e load of 20.1 a rectangle veen the botto ers) of truss f 1 lb uplift at j t joint 4.	ads. 0psf om to joint						
REACTIONS	(size) 1=1 Max Horiz 1=- Max Uplift 1=- 4=- Max Grav 1=1 (LC	8-10-13 -82 (LC -31 (LC -86 (LC 58 (LC 2 1)	, 3=8-10-13, 4=8-10- 10) 24), 3=-31 (LC 23), 12) 23), 3=58 (LC 24), 4=	-13 <sup>9)</sup> L =676	This truss is International R802.10.2 ar OAD CASE(S)	designed in acco Residential Cod nd referenced sta Standard	ordance w e sections andard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	and						

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-187/269, 2-3=-179/269 BOT CHORD 1-4=-204/258, 3-4=-204/258 2-4=-504/348 WEBS

## NOTES

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) 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(3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 4-5-11, Corner(3R) 4-5-11 to 7-5-11, Exterior(2N) 7-5-11 to 8-11-1 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

- 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.
- Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 4-0-0 oc.



Page: 1







PlotID	Length	Product	Plies	Net Qty
DBM1	6-00-00	1-3/4X9-1/4 LP-LVL 2900Fb-2.0E	2	2

# OPTIONAL SERENITY FIREPLACE

APPROVAL	oids all previous architectural or other truss sefore any trusses will be built. Verify all conditions ' you.	DATE:		Carolina Structural Systems	Roof Trusses • Floor Trusses • EWP Carolina Structural Systems	P.O. Box 157, Ether, NC 27247 225 Frame Shop Rd., Star, NC 27356 910-491-9004
SHOP DRAWING	RCE FOR FABRICATION OF TRUSSES AND V WAL OF THIS LAYOUT MUST BE RECEIVED I THAT WILL RESULT IN EXTRA CHARGES TC	APPROVED BY:	BIC TMA2 BIC TMA2 BIC 20034 BIC 20034 ANSITTP1 - 2007 ANSITTP1 - 2007	CAROLINA STRUCURAL SYSTEMS, LLC Siz, NC - Flant 69-437 910-491-6004	<u>DOF DATA</u>	Area: 23.89 SF
	ayout is the sole soui its. Review and Appro iure against changes	VED BY:	Y FIREPLACE		RC	Roof /
<u>ONLY</u>	at the specification of the THIS L/ The building designer is THIS L/ arthe design of the truss support LAYOU neral guidance regarding dison, WI 53179.	REVIEW	Plan: OPT. SERENITY	Date: 9/14/2022	Sales Rep: RW	Designer: JSP
THIS IS A TRUSS PLACEMENT DIAGRAM	These trusses are designed as individual building components to be incorporated into the building design , building designer. See individual design sheets for each truss design identified on the placement drawing. responsible for temporary and permanent bracing of the roof and floor system and for the overall structure structure including headers, beans, walls, and columns is the responsibility of the building designer. For ge bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive, Ma		Job #: SER FP	Customer: GARMAN HOMES	Site Address:	City, ST, ZIP:



**Trenco** 818 Soundside Rd Edenton, NC 27932

Re: SER\_FP Optional Serenity Fireplace

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carolina Structural Systems, LLC.

Pages or sheets covered by this seal: I54217081 thru I54217082

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



September 15,2022

# Gilbert, Eric

**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.



LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-8-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=26(LC 12)

Max Uplift 2=-31(LC 12), 3=-8(LC 12) Max Grav 2=134(LC 1), 3=37(LC 1), 4=34(LC 3)

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

# NOTES-

 Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; 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(3E) 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 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2 and 8 lb uplift at joint 3.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



818 Soundside Road Edenton, NC 27932



LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	2014	Matri	x-MP						Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-8-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=27(LC 12)

Max Uplift 2=-31(LC 12), 3=-5(LC 12) Max Grav 2=134(LC 1), 4=27(LC 3), 3=34(LC 1)

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

# NOTES-

 Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; 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(2E) 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 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2 and 5 lb uplift at joint 3.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.









# OPTIONAL SERENITY SCREENED POF

	APPROVAL	oids all previous architectural or other truss Before any trusses will be built. Verify all conditions 1 you.	DATE		Carolina Structural Systems	Roof Trusses • Floor Trusses • EWP Carolina Structural Systems	P.O. Box 157, Ether, NC 27247 225 Frame Shop Rd., Star, NC 27356 910-491-9004
	SHOP DRAWING	RCE FOR FABRICATION OF TRUSSES AND V WAL OF THIS LAYOUT MUST BE RECEIVED E THAT WILL RESULT IN EXTRA CHARGES TO	APPROVED BY:	BIC TRAZ BIC TRAZ BIC 2003.4 ANSTITH + 2002 BIC 2003.4 ANSTITH + 2007 ANSTITH + 2004	CAROLINA STRUCTRAL SYSTEMS, LLC Star, No Prant 50-437 910-491-0004	<u>DOF DATA</u>	Area: 139.14 SF
		IIS LAYOUT IS THE SOLE SOU YOUTS. REVIEW AND APPRC INSURE AGAINST CHANGES	VIEWED BY:	CREEN PORCH		<u>N</u>	Roof /
	<u>NLY</u>	t the specification of the The building designer is The Duilding designer is The design of the truss support LA crast guidance regarding TC TC sion, WI 53179.	RE	Plan: SERENITY S	Date: 9/14/2022	Sales Rep: RW	Designer: JSP
RCH	<u>THIS IS A TRUSS PLACEMENT DIAGRAM C</u>	These trusses are designed as individual building components to be incorporated into the building design at building designer. See individual design sheets for each truss design identified on the placement drawing. Th responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. structure including headers, beams, walls, and columns is the responsibility of the building designer. For gen bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive, Madi		Job #: SER SCRN PCH	Customer: GARMAN HOMES	Site Address:	City, ST, ZIP:



	L		10-0-0				
	1		10-0-0				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	<b>CSI.</b> TC 0.10 BC 0.06 WB 0.06 Matrix-S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.00 7 0.00 7 0.00 6	l/defl L/d n/r 120 n/r 120 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 38 lb         FT = 20%	
LUMBER-			BRACING-			1	

TOP CHORD

BOT CHORD

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

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

#### LUMBER-

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

REACTIONS. All bearings 10-0-0.

(lb) - Max Horz 2=-19(LC 10)

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

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

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

#### NOTES-

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

 2) Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; 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(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-0-0, Corner(3R) 5-0-0 to 8-0-0, Exterior(2N) 2-0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-0-0, Corner(3R) 5-0-0 to 8-0-0, Exterior(2N) 8-0-0 to 10-10-8 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

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 2-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

# LOAD CASE(S) Standard



	5-0- 5-0-	0 0	<u> </u>	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	<b>CSI.</b> TC 0.35 BC 0.35 WB 0.09 Matrix-MS	DEFL.         in         (loc)         I/defl         L/d           Vert(LL)         0.06         6-12         >999         240           Vert(CT)         -0.05         6-12         >999         180           Horz(CT)         -0.01         4         n/a         n/a	PLATES         GRIP           MT20         244/190           Weight: 36 lb         FT = 20%
LUMBER.	· · · · ·		BBACING-	

TOP CHORD

BOT CHORD

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

Rigid ceiling directly applied or 6-4-7 oc bracing.

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

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=453/0-3-0 (min. 0-1-8), 4=453/0-3-0 (min. 0-1-8) Max Horz 2=-19(LC 10)

Max Uplift2=-130(LC 12), 4=-130(LC 12)

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

TOP CHORD 2-13=-721/887, 3-13=-692/898, 3-14=-692/893, 4-14=-721/882

BOT CHORD 2-15=-781/657, 6-15=-781/657, 6-16=-781/657, 4-16=-781/657 WEBS 3-6=-334/224

NOTES-

 Unbalanced roof live loads have been considered for this design.
 Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; 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(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 10-10-8 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

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

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=130, 4 = 130.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard