

Trenco 818 Soundside Rd Edenton, NC 27932

# Re: 3466725 CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply.

Pages or sheets covered by this seal: T30100011 thru T30100039

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

North Carolina COA: C-0844



March 21,2023

Velez, Joaquin

**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	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	A1	Piggyback Base Supported Gable	1	1	T30100011 Job Reference (optional)

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:50 ID:eSvJ5iz0TWxjgDknVt356hzaKKe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:84.6 Plate Offsets (X, Y): [9:0-1-11,Edge], [13:0-1-11,Edge]

		E													
Loading		(psf)	Spacing	2-0-0	)	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.00		тс	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Ps/Pf)	:	8.3/20.0	Lumber DOL	1.15		BC	0.21	Vert(TL)	n/a	-	n/a	999			
TCDL		10.0	Rep Stress Incr	YES		WB	0.09	Horiz(TL)	0.00	22	n/a	n/a			
BCLL		0.0*	Code	IRC2	015/TPI2014	Matrix-MS		( )							
BCDL		10.0											Weight: 253 lb	FT = 20%	
					FORCES	(lb) - Maximum	Compressio	on/Maximum		3) Tri	uss desid	ined fo	or wind loads in th	e plane of the	truss
	2x4 SP N	0.2				Tension	00111010001			onl	v. For st	uds ex	posed to wind (n	ormal to the fa	ce).
BOT CHORD	2x4 SP N	0.2			TOP CHORD	1-2=-110/155, 2	2-3=-153/18	9, 3-4=-78/14	6.	see	Standa	d Indu	stry Gable End D	etails as appli	cable,
OTHERS	2x4 SP N	0.3				4-5=-95/183, 5-0	6=-139/215	, 6-7=-185/24	8,	or	consult q	ualified	d building designe	er as per ANSI	/TPI 1.
BRACING						7-8=-241/304, 8	-9=-207/25	5, 9-10=-188/	241,	4) ** 1	CLL: AS	CE 7-	10; Pr=20.0 psf (i	oof live load: L	umber
TOP CHORD	Structura	l wood she	athing directly applie	d or		10-11=-188/241	, 11-12=-18	38/241,		DO	L=1.15 F	Plate D	OL=1.00); Pf=20	.0 psf (flat roof	
	10-0-0 oc	purlins, ex	cept			12-13=-188/241	, 13-14=-20	)7/255,		sno	w); Ps=	varies	(min. roof snow=	8.3 psf Lumbe	er
	2-0-0 oc r	purlins (10-	0-0 max.): 9-13.			14-15=-241/304	, 15-16=-18	35/242,		DO	L=1.15 F	Plate D	OL=1.00) see loa	id cases; Cate	gory II;
BOT CHORD	Rigid ceil	ing directly	applied or 6-0-0 oc			16-17=-139/209	, 17-18=-95	5/178,		Exp	B; Fully	Exp.;	Ct=1.10; Unobst	ucted slippery	,
	bracing.					18-19=-70/141,	19-20=-141	/1//,		sur					
WEBS	1 Row at	midpt	7-34, 8-32, 10-31, 1	1-30,		20-21=-105/151	20 20 - 110	0/107	:	5) R0	of design	snow	load has been re	duced to acco	unt for
			12-29, 14-28, 15-27		BOT CHORD	1-39=-122/109,	26 27- 14	0/107, 19/107		SIU SIU SIU	uido odo	quata	drainago to prov	ont water pend	ling
REACTIONS	(size)	22=22-11	-0, 23=22-11-0,			35-36-118/107	, 30-37=-1 ' 34-3511	8/107,		7) Ca	ble stude	quale	d at 1-4-0 oc	shi water ponu	ing.
		24=22-11	-0, 25=22-11-0,			32-34=-118/107	, 31-32=-11	8/107		7) Oa 8) Thi	e truce h	as hee	n designed for a	10.0 nsf bottor	m
		26=22-11	-0, 27=22-11-0,			30-31=-118/107	, 01 0 <u>2</u> = 1 . 29-30=-11	8/107.		chc	ord live lo	ad nor	aconcurrent with	any other live l	oads
		28=22-11	-0, 29=22-11-0,			28-29=-118/107	, 27-28=-11	8/107,		9) * T	nis truss	has be	en designed for	a live load of 2	0.0psf
		30=22-11	-0, 31=22-11-0,			26-27=-118/107	, 25-26=-11	8/107,		on	the botto	m cho	rd in all areas wh	ere a rectangle	8
		32=22-11	-0, 34=22-11-0, 0.26=22.11.0			24-25=-118/107	, 23-24=-11	8/107,		3-0	6-00 tall	by 2-0	0-00 wide will fit I	petween the bo	ottom
		37-22-11	-0, 30=22-11-0,			22-23=-118/107	', 21-22=-11	8/107		cho	ord and a	ny oth	er members.		
		39=22-11	-0, 30–22-11-0, -0		WEBS	2-39=-152/83, 3	8-38=-136/1	28, 4-37=-89/	59,						
	Max Horiz	39=-206 (	I C 10)			5-36=-89/65, 6-	35=-91/66,	7-34=-106/83	,				mm	IIIII.	
	Max Uplift	22=-202 (	LC 11) 23=-230 (LC	: 10)		8-32=-122/20, 1	0-31=-135/	63, 11-30=-79	9/47,				I'L'H G	AIROUL	
	max opint	24=-36 (L	C 14). 25=-57 (LC 1	5).		12-29=-133/63,	14-28=-120	)/20, 00,47,05,00					"all H	4.01	10
		26=-48 (L	C 15), 27=-68 (LC 1	5),		10-27=-100/84,	10-20=-91/	00, 17-20=-85 101	9/00,			3	O'.EB	Mo: V	14
		30=-17 (L	C 10), 34=-68 (LC 14	4),		20-22-1/7/70	9-23=-132/	124,				2.		11.5.5	12
		35=-48 (L	C 14), 36=-57 (LC 14	4),	NOTEO	20-22=-147/79						-	:0	V K.	-
		37=-38 (L	C 15), 38=-243 (LC	11),	NUIES	d voof live loode k							: 05	E	- E
		39=-219 (	LC 10)		1) Unbalance	d roof live loads r	lave been c	considered for					SE/	AL :	
	Max Grav	22=324 (L	_C 25), 23=273 (LC 1	13),	2) Wind ASC	E 7-10: \/ult=115	mph (3-500	and quet)					: 0418	360 :	- E -
		24=121 (L	-C 30), 25=122 (LC 2	26),	Vasd=91m	D = 10, V = 10	• BCDI =6 (	)nsf: h=30ft: C	:at			=	: 0410	: .	2
		20=113 (L	_C 26), 27=115 (LC 2	26), 27)	II: Exp B: E	nclosed: MWFR	S (envelope	) exterior zon	e			-	N		2
		20=147 (L 30-105 (I	C 1) 31-161 (LC 2	∠ <i>r)</i> , R)	and C-C Ex	kterior (2) zone: c	antilever le	ft and right	-			1	: ENG	-ER. A	3
		32=148 (L	C(28) 34=115 (10)	25)	exposed; e	end vertical left ar	nd right exp	osed;C-C for				1	GIN	IFE. CV	5
		35=113 (1	_C 25), 36=122 (I C 2	25).	members a	Ind forces & MWF	RS for rea	ctions shown;					1.40	VEL	
		37=121 (L	_C 26), 38=286 (LC	12).	Lumber DC	DL=1.60 plate grip	DOL=1.33	5					1, YUIN	Villin	
		39=337 (L	_C 26)	.,,									1000	mm	
		``	,											March	21,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	A1	Piggyback Base Supported Gable	1	1	T30100011 Job Reference (optional)

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 39, 243 lb uplift at joint 38, 38 lb uplift at joint 37, 57 lb uplift at joint 36, 48 lb uplift at joint 35, 68 lb uplift at joint 34, 17 lb uplift at joint 30, 68 lb uplift at joint 27, 48 lb uplift at joint 26, 57 lb uplift at joint 25, 36 lb uplift at joint 24, 230 lb uplift at joint 23 and 202 lb uplift at joint 22.

11) N/A

- 12) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (lb/ft) Vert: 1-9=-37, 9-13=-60, 13-21=-37, 21-40=-20 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:50 ID:eSvJ5iz0TWxjgDknVt356hzaKKe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	A2	Piggyback Base	3	1	T30100012 Job Reference (optional)

(psf)

20.0

Plate Grip DOL

5-12=-42/270, 6-12=-244/185, 6-10=-102/79,

2-15=-904/125, 2-14=0/576, 7-9=-904/125,

7-10=0/576

Lumber DOL=1.60 plate grip DOL=1.33

1) Unbalanced roof live loads have been considered for

Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;

1.00

Scale = 1:79.6

Loading

NOTES

2)

this design.

TCLL (roof)

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:53 ID:AKSe9cn1i6NDCWMfwRmpKqzaKJb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



0.34 Vert(LL)

0.13

13-14

>999

240 MT20

Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15		BC	0.48	Vert(CT)	-0.15	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.27	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC20	15/TPI2014	Matrix-MS								
BCDL	10.0											Weight: 171 lb	FT = 20%
LUMBER			3	3) ** TCLL: AS	CE 7-10; Pr=20	).0 psf (roof	live load: Lu	umber					
TOP CHORD	2x4 SP No.2			DOL=1.15 F	Plate DOL=1.00	); Pf=20.0 p	sf (flat roof						
BOT CHORD	2x4 SP No.2			snow); Ps=	varies (min. roo	f snow=8.3	psf Lumber						
WEBS	2x4 SP No.3			DOL=1.15 F	Plate DOL=1.00	) see load c	ases; Categ	ory II;					
BRACING				Exp B; Fully	Exp.; Ct=1.10;	Unobstruct	ed slippery						
TOP CHORD	Structural wood she	eathing directly applie	d or	surface									
	5-11-1 oc purlins, e	xcept	2	<ol> <li>Roof design</li> </ol>	snow load has	been reduc	ced to accou	nt for					
	2-0-0 oc purlins (6-0	0-0 max.): 4-5.	_	slope.									
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	; 5	<ol> <li>Provide ade</li> </ol>	quate drainage	to prevent	water pondi	ng.					
	bracing.		6	6) This truss h	as been design	ed for a 10.	0 psf bottom	۱ <u>.</u>					
REACTIONS	(size) 9=0-3-8,	15=0-3-8	-	chord live lo	ad nonconcurre	ent with any	other live lo	ads.					
	Max Horiz 15=202 (	LC 11)		) ^ I his truss	has been desig	ned for a liv	e load of 20	.0pst					
	Max Uplift 9=-8 (LC	15), 15=-8 (LC 14)		on the botto	m chord in all a	reas where	a rectangle	4					
	Max Grav 9=990 (L	C 2), 15=990 (LC 2)		3-06-00 tall	by 2-00-00 wide	e Will Tit Det		tom					
FORCES	(lb) - Maximum Con	nnression/Maximum		Drovido mo		tion (by oth	DL = 10.0p	5I.					
IONOLO	Tension	npression/maximum	c	bearing plat	e canable of wit	hetandina 8	Blb uplift at i	oint					
TOP CHORD	1-2=-51/25 2-3=-90	04/98 3-4=-784/184		15 and 8 lb	unlift at joint 9	instantung c	s ib upint at j	Unit					
	4-5=-478/182.5-6=	-784/184. 6-7=-904/9	8. c	) This trues is	designed in ac	cordance w	ith the 2015						
	7-8=-49/25		-, .	Internationa	Residential Co	de sections	R502 11 1	and					
BOT CHORD	1-15=-14/44, 14-15	=-182/209,		R802 10 2 a	and referenced	standard Al	JSI/TPI 1	ana					
	13-14=-81/671, 12-	13=-6/510, 10-12=0/5	586, 1	0) Graphical p	urlin representa	tion does n	ot depict the	size					
	9-10=-12/42, 8-9=-1	12/42		or the orient	ation of the pur	lin along the	e top and/or	0.20					A
WEBS	3-14=-102/79, 3-13	=-244/185, 4-13=-42/	270,	bottom chor	d.							"THY	ARO.

тс

#### LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate 1) Increase=1.00 Uniform Loads (lb/ft)
  - Vert: 1-4=-37, 4-5=-60, 5-8=-37, 16-19=-20



GRIP

244/190

March 21,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	A3	Piggyback Base	5	1	T30100013 Job Reference (optional)

Run: 8.63 S. Nov 19 2022 Print: 8.630 S. Nov 19 2022 MiTek Industries. Inc. Mon Mar 20 15:11:54 ID:fc7jeCcJSJ4Q\_67wTRW\_dNzaKIW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

GRIP

244/190

FT = 20%

Page: 1



LUMBER TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2
WEBS	2x4 SP No.3
BRACING	• • • • • • • • • •
TOP CHORD	Structural wood sheathing directly applied or 5-11-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max): 4-5
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 8= Mechanical, 14=0-3-8
	Max Horiz 14=220 (LC 13)
	Max Uplift 8=-2 (LC 15), 14=-8 (LC 14)
	Max Grav 8=893 (LC 2), 14=982 (LC 2)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-50/26, 2-3=-896/98, 3-4=-773/185,
	4-5=-471/182, 5-6=-772/185, 6-7=-854/98,
	7-8=-858/74
BOT CHORD	1-14=-13/43, 13-14=-198/208,
	12-13=-97/666, 11-12=-23/502,
	9-11=-28/559, 8-9=-19/39
WEBS	3-13=-97/80, 3-12=-249/185, 4-12=-42/266,
	5-11=-42/260, 6-11=-223/178, 6-9=-137/80,
	7-9=-9/572, 2-14=-899/125, 2-13=0/572
NOTEO	

NOTES

Scale = 1:77.7

Loading

TCDL

BCLL

BCDL

TCLL (roof)

Snow (Ps/Pf)

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 3) \*\* TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=8.3 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 4) Roof design snow load has been reduced to account for slope.
- 5) Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom 6)
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members, with BCDL = 10.0psf. Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 9)
- bearing plate capable of withstanding 2 lb uplift at joint 8 and 8 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

#### LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate 1) Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-4=-37, 4-5=-60, 5-7=-37, 8-15=-20



March 21,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	A4	Piggyback Base	6	1	T30100014 Job Reference (optional)

TCDL

BCLL

BCDL

WEBS

Run: 8.63 S. Nov 19 2022 Print: 8.630 S. Nov 19 2022 MiTek Industries. Inc. Mon Mar 20 15:11:54 ID:DI?AWtuJdaDz?mL?rrtY6WzaKEH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



March 21,2023

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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	A5	Piggyback Base Supported Gable	1	1	T30100015 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:55 ID:?MbvTsp\_kwoB7R9clpEMBYzaKD5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



23-7-0

Scale = 1:82.4

## Plate Offsets (X, Y): [9:0-1-11,Edge], [13:0-1-11,Edge]

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Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(	oc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.00		TC	0.22	Vert(LL)	n/a		-	n/a	999	MT20	244/19	90
Snow (Ps/Pf)		8.3/20.0	Lumber DOL	1.15		BC	0.17	Vert(TL)	n/a		-	n/a	999			
TCDL		10.0	Rep Stress Incr	YES		WB	0.12	Horiz(TL)	-0.01		22	n/a	n/a			
BCLL		0.0*	Code	IRC2	015/TPI2014	Matrix-MS										
BCDL		10.0												Weight: 251	lb FT = 2	20%
LUMBER					FORCES	(lb) - Maximum C	ompressi	on/Maximum		3)	Trus	s desig	ned f	or wind loads	n the plane	of the truss
TOP CHORD	2x4 SP N	0.2				Tension					only.	For st	uds e	xposed to wind	d (normal to	the face),
BOT CHORD	2x4 SP N	0.2			TOP CHORD	1-2=-86/114, 2-3=	=-119/123	3, 3-4=-62/10	З,		see S	Standaı	rd Ind	ustry Gable Er	d Details as	s applicable,
WEBS	2x4 SP N	0.3				4-5=-107/140, 5-6	6=-151/18	84, 6-7=-197/2	239,		or co	nsult q	ualifie	d building des	igner as per	r ANSI/TPI 1.
OTHERS	2x4 SP N	0.3				7-8=-254/306, 8-9	9=-216/25	56, 9-10=-197	/242,	4)	** TC	LL: AS	CE 7	10; Pr=20.0 p	sf (roof live	load: Lumber
BRACING						10-11=-197/242,	11-12=-1	97/242,			DOL	=1.15 F	Plate D	OOL=1.00); Pf	=20.0 psf (fl	at roof
TOP CHORD	Structura	l wood she	athing directly applie	ed or		12-13=-197/242,	13-14=-2	16/256,			snow	'); Ps=	varies	s (min. roof sno	ow=8.3 psf l	Lumber
	6-0-0 oc	purlins. ex	cept end verticals. a	nd		14-15=-254/306,	15-16=-1	97/260,			DOL	=1.15 F	Plate D	DOL=1.00) see	load cases	s; Category II;
	2-0-0 oc	purlins (10-	0-0 max.): 9-13.			16-17=-151/226,	17-18=-1	14/196,			Exp	3; Fully	Exp.;	Ct=1.10; Unc	bstructed sl	lippery
BOT CHORD	Rigid ceil	ing directly	applied or 6-0-0 oc			18-19=-108/153,	19-20=-2	15/250,			surfa	ce				
	bracing.	• •				20-21=-121/103,	21-22=-2	08/176		5)	Root	design	snow	load has bee	n reduced to	o account for
WEBS	1 Row at	midpt	7-33, 8-32, 10-31, 1	1-30,	BOT CHORD	1-39=-87/89, 38-3	39=-152/1	130, 50/400		$\sim$	SIOPE	). 	~	ducine as to a		
			12-29, 14-28, 15-27			37-38=-152/130,	30-37=-1	52/136, 52/126		(0) 7)	PIOVI		quate	drainage to p	revent wate	er ponding.
REACTIONS	(size)	22=22-8-0	), 23=22-8-0, 24=22	-8-0,		32-33-152/130,	31-321	52/130,		/) 0)	Thic	e siuus truce b	os bo	eu al 1-4-0 00	x a 10.0 pcf	fbottom
		25=22-8-0	0, 26=22-8-0, 27=22	-8-0,		30-31=-152/136	29-30=-1	52/136		0)	chore	l live lo	ad no	nconcurrent w	ith any othe	r live loads
		28=22-8-0	0, 29=22-8-0, 30=22	-8-0,		28-29=-152/136.	27-28=-1	52/136.		9)	* Thie	s truss	has h	een designed	for a live lo:	ad of 20 Onsf
		31=22-8-0	0, 32=22-8-0, 33=22	-8-0,		26-27=-152/136.	25-26=-1	52/136.		0)	on th	e botto	m cho	ord in all areas	where a re-	ctangle
		35=22-8-0	), 36=22-8-0, 37=22	-8-0,		24-25=-152/136,	23-24=-1	52/136,			3-06-	00 tall	by 2-0	00-00 wide will	fit between	the bottom
	M	38=22-8-0	J, 39=22-8-0			22-23=-152/136					chord	d and a	ny oth	ner members.		
	Max Horiz	39=220 (L	_C 13) 1 C 12) 22 201 (LC	10)	WEBS	2-39=-148/62, 3-3	38=-107/1	17, 4-37=-91	/59,							
	wax upint	22=-229 (	(LC   3), 23 = -204 (LC )	5 TU), 5)		5-36=-89/65, 6-35	5=-91/66,	7-33=-107/84	4,						MILLIN.	
		24=-30 (L 26_ 40 (L	C 14), 25=-54 (LC 1 C 15) 27-66 (LC 1	5), 5)		8-32=-103/24, 10	-31=-126	/68, 11-30=-8	0/47,					"	GAD.	11.
		20=-43 (L 30=-10 (L	C 13), 27=-00 (LC 1 C 11) 33=-60 (LC 1	3), 4)		12-29=-131/68, 1	4-28=-11	8/24,						Natr	YNO	1 111
		35=-49 (L	C 14) 36=-56 (LC 1	4), 4)		15-27=-107/81, 1	6-26=-91	/66, 17-25=-9	3/67,				~	O	the .	AN'S
		37=-22 (1	C 15) 38=-195 (I C	11)		18-24=-79/51, 19	-23=-233	/172,					5	2.077	V V	1.7.
		39=-133 (	LC 10)	,,		20-22=-381/417							5	:0	* ' <b>`</b>	43. 3
	Max Grav	22=244 (L	_C 10), 23=320 (LC )	26).	NOTES								2			1 1 2
		24=100 (L	_C 25), 25=126 (LC	26),	1) Unbalance	d roof live loads ha	ve been	considered fo	r					: S	EAL	: =
		26=113 (L	_C 26), 27=115 (LC	26),	this design									: 04	1960	: =
		28=145 (L	_C 27), 29=158 (LC 1	27),	2) Wind: ASC	E 7-10; Vult=115m	iph (3-sec	cond gust)	<b>.</b> .				-	: 04	1000	- ÷ = =
		30=107 (L	_C 30), 31=153 (LC 3	27),	Vasd=91m	ipn; TCDL=6.0psf; I	BCDL=6.	upst; n=30ft;	Cat.				2	A		- A - S -
		32=129 (L	_C 28), 33=118 (LC	25),		vtorior (2) zone: co	(envelope	e) exterior ZOI	ie				-	·	a	. S.
		35=115 (L	_C 25), 36=118 (LC	25),	anu C-C E	and vertical left and	right even	n anu nynt					1	Vo NG	INEE	NS
		37=125 (L	LC 2), 38=208 (LC 1)	2),	members	and forces & MW/FF	RS for res	ictions shown					1	A	1111	N. IN
		39=326 (L	_C 26)		Lumber D	DI = 1.60 plate arin I	DOI = 1.3	3	,					11,90	IN VE	in
					24.11001 20		202-1.0	-						1111	mm	

March 21,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	A5	Piggyback Base Supported Gable	1	1	T30100015 Job Reference (optional)

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 22, 133 lb uplift at joint 39, 195 lb uplift at joint 38, 22 lb uplift at joint 37, 56 lb uplift at joint 36, 49 lb uplift at joint 35, 69 lb uplift at joint 33, 19 lb uplift at joint 30, 66 lb uplift at joint 27, 49 lb uplift at joint 26, 54 lb uplift at joint 25, 38 lb uplift at joint 24 and 204 lb uplift at joint 23.

11) N/A

- 12) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (lb/ft) Vert: 1-9=-37, 9-13=-60, 13-21=-37, 22-40=-20 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:55 ID:?MbvTsp\_kwoB7R9clpEMBYzaKD5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	B1	Common Structural Gable	1	1	T30100016 Job Reference (optional)

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:55 ID:5Kyr8XAUqr8TFrmmar\_JKBzaKTQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



## Plate Offsets (X, Y): [1:Edge,0-0-6], [23:Edge,0-0-6]

Scale = 1:88.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc	c) l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	0.13	41-4	2 >919	240	MT20	244/190	
Snow (Ps/Pf)	10.1/20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.19	4	1 >649	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	2	4 n/a	n/a			
BCLI	0.0*	Code	IRC2015/TPI2014	Matrix-MS		- (- )							
BCDL	10.0										Weight: 276 lb	FT = 20%	
	2x4 SP No 2		TOP CHORD	1-2=-355/57, 2-3=-{ 4-5503/194, 5-6-	523/129	, 3-4=-500/16	62, 255	2) V	Vind: ASCE	7-10; b: TCI	; Vult=115mph (;	3-second gust	) 0ft: Cat
	2x4 SF N0.2			7-8=-546/302 8-10	-683/3	86	_00,	ů	· Exn B· Er	nclose	d: MWFRS (env	elone) exterior	700e
	2x4 SF N0.2			10-11=-677/411 11	- 000/0 1-12=-6	-00, -03/428			nd C-C Fx	terior (	2) zone: cantile	ver left and rig	ht
	2x4 SP No 3			12-13=-301/307.13	3-14=-2	95/306.		e	xposed : e	nd ver	tical left and righ	it exposed:C-C	C for
	244 01 10.5			14-16=-263/265, 16	6-17=-2	31/224.		n	nembers ar	nd forc	es & MWFRS fo	or reactions sh	own:
	Structural wood obc	othing directly opplie	dor	17-18=-194/189, 18	3-19=-1	51/164,		L	umber DO	L=1.60	) plate grip DOL	=1.33	
		auting directly applie		19-20=-126/140, 20	)-21=-1	16/113,		3) -	Truss desid	ned fo	or wind loads in t	the plane of th	e truss
	Bigid coiling directly	(applied or 10.0.0 or		21-22=-160/119, 22	2-23=-1	13/87		΄ ο	nly. For st	, uds ex	posed to wind (	normal to the f	ace),
BOT CHORD	bracing	applied of 10-0-0 of	Ó BOT CHORD	1-44=-44/328, 43-4	4=-170	453,		s	ee Standai	d Indu	stry Gable End	Details as app	licable,
WEBS	1 Row at midnt	12-34		42-43=-170/453, 41	1-42=-1	70/453,		0	r consult q	ualified	d building desigr	er as per ANS	SI/TPI 1.
IOINTS	1 Brace at Jt(s): 45	.20.		40-41=-170/453, 39	9-40=-1	70/453,		4) T	CLL: ASCI	E 7-10	; Pr=20.0 psf (rc	of live load: Li	umber
	46 48 49			38-39=-170/453, 37	7-38=-1	21/220,		D	OL=1.15 F	Plate D	OL=1.00); Pf=2	0.0 psf (flat roo	of
REACTIONS	(size) 24=13-11	-8 25=13-11-8		36-37=-121/220, 35	5-36=-1	21/220,		S	now); Ps=′	10.1 ps	sf (roof snow: Lu	mber DOL=1.	15 Plate
	26=13-11	-8 27=13-11-8		34-35=-121/220, 33	3-34=-1	23/217,		E .	OL=1.00);	Categ	jory II; Exp B; Fi	Illy Exp.; Ct=1	.10;
	28=13-11	-8, 29=13-11-8,		32-33=-123/217, 30	)-32=-1	23/217,			Inobstructe	d slipp	pery surface		
	30=13-11	-8. 32=13-11-8.		29-30=-77/107, 28-	29=-77	107,		5) H	loof design	snow	load has been r	educed to acc	ount for
	33=13-11	-8, 34=13-11-8,		27-28=-77/107, 26-	2/=-//	107,		s ov c	iope.				
	35=13-11	-8, 36=0-3-8, 44=0-5	5-8	23-20=-77/107, 24-	25=-77	107,		0) (0 7) T		space	ed al 1-4-0 oc.	- 100 mathatt	
	Max Horiz 44=205 (	LC 11)	WERS	12 /9- 207/11/ /0	2 10- 2	10/127		<i>(</i> ) 1	his truss h	as bee	en designed for a	1 10.0 psi bollo	loode
	Max Uplift 24=-102	(LC 11), 25=-121 (LC	C 10),	49-50335/130 30	)-49=-3 )-503	+0/127,		U		au nui	iconcurrent with	any other live	iuaus.
	26=-19 (l	_C 14), 27=-41 (LC 1	5),	38-47=-163/456 46	6-47=-2	76/688						in the	
	28=-34 (l	_C 15), 29=-40 (LC 1	5),	45-46=-249/627, 12	2-45=-3	)7/752.					"THAY	ARO!	
	30=-100	(LC 14), 32=-46 (LC	15),	12-34=-227/0, 11-4	5=-85/1	2, 35-45=-51	/77,					6	11
	33=-9 (L0	C 10), 35=-25 (LC 11	),	10-46=-20/29, 37-4	6=-80/5	4, 8-47=-249	/121,			5.	SCOPPE	PION	11
	36=-128	(LC 25), 44=-143 (LC	; 14)	7-39=-103/64, 6-40	=-16/28	, 5-41=-40/38	3,			2		7:	1 2
	Max Grav 24=268 (	LC 25), 25=151 (LC 1	13),	4-42=-34/36, 3-43=	-43/39,	2-44=-303/96	б,			2	· · · /)	S 3	. =
	26=120 (	LC 2), 27=113 (LC 2)	o), 26)	13-48=-107/4, 33-4	8=-98/2	6, 14-49=-80	/54,			2	: SF	Δ1	: =
	20=111 (	LC 20), 29=114 (LC 2	20),	32-49=-91/63, 16-5	0=-80/5	1, 17-29=-89	/55,						: =
	33–124 (	LC 26), 32–120 (LC 2	20), 27)	18-28=-84/51, 19-2	7=-86/5	3, 20-26=-84	/47,				: 041	860	÷ =
	35-52 (1	C 25) 36-116 (LC 1	4)	21-25=-97/85, 22-2	4=-124	51				2	1 C C		
	44=660 (	I C 2)	NOTES							3	1 A. A.		5
FORCES	(lb) - Maximum Con	nression/Maximum	1) Unbalance	ed roof live loads have	e been o	considered fo	r			1	. SNO.	UEER. A	1.2
0.0000	Tension		this desigr	1.						1	0,	NEE	5
											1,40111	VELV	N
											1101	N MILLIN	
											20111	anne.	



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 **Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



March 21,2023

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	B1	Common Structural Gable	1	1	T30100016 Job Reference (optional)

- 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 30, 25 lb uplift at joint 35, 143 lb uplift at joint 44, 9 lb uplift at joint 33, 46 lb uplift at joint 32, 40 lb uplift at joint 29, 34 lb uplift at joint 28, 41 lb uplift at joint 27, 19 lb uplift at joint 26, 121 lb uplift at joint 25, 102 lb uplift at joint 24 and 128 lb uplift at joint 36.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:55 ID:5Kyr8XAUqr8TFrmmar\_JKBzaKTQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	B2	Common	3	1	T30100017 Job Reference (optional)

Run: 8.63 S. Nov 19 2022 Print: 8.630 S. Nov 19 2022 MiTek Industries. Inc. Mon Mar 20 15:11:56 ID:g4\_sQ4hS\_S7YVAnSwgAnyrzaKNb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

1)

2)

March 21,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	В3	Common Girder	1	2	T30100018 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:57 ID:yqqM9ofuFRcGWCV3OWUn0JzaKC?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:70.9

## Plate Offsets (X, Y): [6:Edge,0-3-8], [7:0-3-8,0-5-0], [10:0-5-0,0-4-12]

Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL	(psf) 20.0 10.1/20.0 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 IRC2015	5/TPI2014	CSI TC BC WB Matrix-MS	0.96 0.81 0.67	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.18 0.01	(loc) 7-8 7-8 6	l/defl >999 >906 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 358 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP No.2 *Except 2x4 SP No.3 Structural wood shee 6-0-0 oc purlins, exc Rigid ceiling directly bracing. 1 Row at midpt (size) 6=0-3-8, 8 11=0-5-8 Max Horiz 11=-220 (L Max Uplift 6=-22 (LC Max Grav 6=2729 (L 11=1516 ( (lb) - Maximum Com Tension 1-2=-824/30, 2-3=-16 4-5=-2548/43, 1-11= 10-11=-219/665, 8-1 6-7=-54/408	* 9-6:2x6 SP DSS athing directly applied cept end verticals. applied or 10-0-0 oc 4-8 =0-3-8, (req. 0-3-11), _C 29) 11), 8=-157 (LC 10) C 2), 8=7261 (LC 2), LC 25) pression/Maximum 5/784, 3-4=-32/558, -621/6, 5-6=-1980/38 0=-123/582, 7-8=0/18	2) i or 3) 4) , 5) 6) 7) 378, 8)	All loads are except if note CASE(S) sec provided to d unless otherw Unbalanced this design. Wind: ASCE Vasd=91mph II; Exp B; Enc cantilever left right exposed TCLL: ASCE DOL=1.15 PI snow); Ps=10 DOL=1.00); ( Unobstructed Roof design s slope. This truss ha chord live loa * This truss h on the bottom	considered equally id as front (F) or ba istribute only loads vise indicated. roof live loads have 7-10; Vult=115mph ; TCDL=6.0psf; BC closed; MWFRS (er and right exposed ; Lumber DOL=1.6 7-10; Pr=20.0 psf ate DOL=1.00); Pf= 0.1 psf (roof snow: Category II; Exp B; I slippery surface snow load has been s been designed fo d nonconcurrent w as been designed in chord in all areas	r applier ack (B) nection noted been of (3-sec CDL=6.0 nvelope (roof liv =20.0 p Lumbe Fully E n reduc or a 10.0 rith any for a liv where	d to all plies, face in the LC s have been as (F) or (B), considered fo cond gust) Opsf; h=30ft; ( ) exterior zor vertical left an grip DOL=1.15 P xp.; Ct=1.10; ved to accoun D psf bottom other live load e load t 20.C a rectangle	DAD r Cat. le; d 33 er Plate t for ds. 0psf	12) Har prov lb d up a lb d up a 873 14 l 18-( 873 The resp <b>LOAD (</b> 1) De Inc	riger(s) o vided su own and at 4-0-1. own and at 10-0- lb dowr b up at 0-12, an lb dowr b up at lb dowr b up at 0-12, an lb dowr b up at 0-12, an lb dowr b up at 0-12, an lb dowr b up at lb dowr lb dowr b up at lb dowr b up at lb dowr b up at lb dowr lb dowr l	r r othe ffficienti 1 14 lb 2, 873 1 14 lb 12, 873 1 14 lb 12, 873 1 14 lb 12, 873 1 16-0-1 4 873 a and 1 16-0-1 4 873 a and 1 16-0-1 5 90 0 5 12 1.00 5 12 5 1	b r connection devi t to support conce up at 2-0-12, 87 lb down and 14 I up at 8-0-12, 87 3 lb down and 14 Ib up at 14-0 2, 873 lb down and lb down and 14 lb 4 lb up at 12-0 ion of such conne hers. ndard alanced): Lumber b/ft) 3-55-40, 6-11=-2 ads (lb) B), 8=-660 (B), 78 B), 13=-660 (B), 78 B), 13=-660 (B), 78 B), 13=-660 (B), 78 B), 13=-660 (B), 78 C), 13=-660 (B), 13=-600	ce(s) shall be sntrated load(s) 873 3 lb down and 14 lb b up at 6-0-12, 873 3 lb down and 14 lb l b up at 12-0-12, 12, 873 lb down and ind 14 lb up at o up at 20-0-12, and 12 on bottom chord. Section device(s) is the r Increase=1.15, Plate 20 =-660 (B), 10=-660 14=-660 (B), 15=-660 19=-660 (B)
WEBS NOTES 1) 2-ply truss (0.131"x3" Top chord: oc. Bottom chi- staggered Web conno	3-8=-1053/0, 4-8=-2t 2-8=-1953/201, 2-10 5-7=0/1491 to be connected toget ) nails as follows: s connected as follows ords connected as follows ords connected as follows at 0-7-0 oc. ected as follows: 2x4 -	325/190, 4-7=0/3217, =0/2137, 1-10=-86/12 : 2x4 - 1 row at 0-9-0 pws: 2x6 - 2 rows 1 row at 0-9-0 oc.	25, 9) 10	3-06-00 tall b chord and an WARNING: F than input be ) Provide mech bearing plate joint 8 and 22 ) This truss is d International R802.10.2 ar	y 2-00-00 wide will y other members, n Required bearing si aring size. hanical connection capable of withsta 2 Ib uplift at joint 6. designed in accord Residential Code s ad referenced stand	fit betv with BC ze at jo (by oth nding 1 ance w sections dard AN	veen the bott int (s) 8 greater ers) of truss to 57 lb uplift at ith the 2015 i R502.11.1 a ISI/TPI 1.	om er o			"The second seco	SE 0418	AL B60 VEER.EL

March 21,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	C1	Common Supported Gable	1	1	T30100019 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:58 ID:QaUTW6A\_h9LtyUf3PhXc8OzaKW?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale =	1:48.1
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Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL	(psf) 20.0 10.1/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.04 0.06 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 77 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 10-0-0 oc purlins. Rigid ceiling directly bracing. (size) 12=10-3- 15=10-3- 15=10-3- 18=10-3 Max Horiz 20=97 (L Max Uplift 12=60 (I 14=-32 (I 19=-97 (I Max Grav 12=166 ( 14=113 ( 16=158 ( 18=113 ( 20=174 (	eathing directly applie y applied or 6-0-0 oc 0, 13=10-3-0, 14=10- 0, 16=10-3-0, 17=10- 0, 19=10-3-0, 20=10- C 11) C 11), 13=-92 (LC 1: C 14), 18=-31 (LC 1: LC 14), 20=-70 (LC 1: LC 25), 13=129 (LC 2: LC 28), 17=119 (LC 2: LC 29), 19=135 (LC 2: LC 26)	1) 2) d or 3-0, 3-0, 3-0, 4) 5), 5), 4), 26), 5), 26), 5), 26), 6) 25), 7) 25), 7)	Unbalanced this design. Wind: ASCE Vasd=91mpl II; Exp B; En and C-C Ext exposed ; er members an Lumber DOL Truss desig only. For stt see Standard or consult qu TCLL: ASCE DOL=1.15 P snow); Ps=1 DOL=1.00; Unobstructer Roof design slope. Gable studs This truss ha chord live loa	roof live loads h 7-10; Vult=115r ,; TCDL=6.0psf; closed; MWFRS erior (2) zone; c ad vertical left ar d forces & MWF =1.60 plate grip ned for wind loa dds exposed to v d Industry Gable alified building d 7-10; Pr=200, g late DOL=1.00; 0.1 psf (roof snc Category II; Exp d slippery surfac snow load has t spaced at 1-4-0 is been designe ad nonconcurrer as been design	ave been of mph (3-sec BCDL=6. § (envelope antilever le dright exp RS for ree DOL=1.3; ds in the p vind (norm e End Deta designer a bosf (roof liv Pf=20.0 p w: Lumbe B; Fully E ee oc. d for a 10. tt with any ed for a liv	considered fc cond gust) Opsf, h=30ft; e) exterior zon ff and right bosed;C-C for ctions showr lane of the tr ial to the face ils as applica s per ANSI/TI re load: Lumb sf (flat roof r DOL=1.15 F xp.; Ct=1.10; wed to accour 0 psf bottom other live loa re load of 20.0	or Cat. ne r JSS ), ble, Plate Plate t for uds. Opsf						
FORCES	(lb) - Maximum Cor Tension 1-2=-53/77, 2-3=-66 4-5=-73/102, 5-6=- 7-8=-73/98, 8-9=-34	npression/Maximum 5/83, 3-4=-35/80, 104/126, 6-7=-104/12 4/77, 9-10=-58/77,	6, 9)	on the bottor 3-06-00 tall t chord and ar Provide mec bearing plate	n chord in all are by 2-00-00 wide by other membe hanical connect capable of with	eas where will fit betw rs. ion (by oth istanding 2	a rectangle veen the both ers) of truss t 29 lb uplift at j	om to joint			in the second second	NORTH G	APOLINA PONACA	ALL NO
BOT CHORD	10-11=-48/73 1-20=-60/55, 19-20 17-18=-56/51, 16-1 14-15=-56/51, 13-1 11-12=-56/51	=-56/51, 18-19=-56/5 7=-56/51, 15-16=-56/ 4=-56/51, 12-13=-56/	1, 51, 51, 10 11	17, 31 lb upl uplift at joint 13, 70 lb upl ) N/A	ift at joint 18, 97 15, 32 lb uplift a ift at joint 20 and	Ib uplift at it joint 14, s 60 lb upli	joint 19, 28 li 92 lb uplift at ft at joint 12.	o joint				SE 041	AL 860	WILLING .
WEBS	6-16=-131/58, 5-17 3-19=-90/71, 7-15= 9-13=-87/69, 2-20=	=-92/43, 4-18=-87/58 -91/42, 8-14=-87/58, -82/35, 10-12=-79/35	, L(	International R802.10.2 a DAD CASE(S)	Residential Coo nd referenced st Standard	de sections andard AN	SR502.11.1 a	ind			and the second		VEEP. EL	nn.

March 21,2023

818 Soundside Road Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	D1	Monopitch	1	1	Job Reference (optional)

Run: 8.63 S Feb 9 2023 Print: 8.630 S Feb 9 2023 MiTek Industries, Inc. Tue Mar 21 13:19:45 ID:VSjNZ1fZJQwtMFcUJ4meYozaJxD-9k4UzySrv?EBI4wZutbiHGVvzbxIOAAPvEULwNzYj3E

3-4-4	4-8-4	6-0-4	7-4-4
3-4-4	1-4-0	1-4-0	1-4-0



#### 

Scale = 1:40.8

## Plate Offsets (X, Y): [1:0-0-7,0-0-14], [1:0-0-12,1-0-4]

Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL	(psf) 20.0 18.7/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.47 0.50 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.19 0.02	(loc) 8-9 8-9 1	l/defl >903 >465 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 31 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS FORCES NOTES	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins, exo Rigid ceiling directly bracing. (lb/size) 1=319/0-3 Max Horiz 1=61 (LC Max Uplift 1=c-21 (LC Max Grav 1=330 (LC (lb) - Max. Comp./Max (lb) or less except with	athing directly applie cept end verticals. applied or 10-0-0 or 8-8, 6=238/0-1-8 15) : 12), 6=-24 (LC 16) C 2), 6=-24 (LC 23) ax. Ten All forces hen shown.	6) 7) 8) c 10 11 250 12	Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall t chord and ar Bearing at jo using ANSI/ designer sho 0) Provide mec bearing plate 1 and 24 lb u 2) This truss is International R802.10.2 a	spaced at 0-0-0 as been designe ad nonconcurrer has been design m chord in all arr oy 2-00-00 wide yy other membe iint(s) 6 consider TPI 1 angle to gr ould verify capac thanical connect e at joint(s) 6. thanical connect e capable of with uplift at joint 6. designed in acc Residential Coo nd referenced st	o oc. d for a 10.0 ht with any hed for a live eas where will fit betw rs. rs parallel t rain formula city of beari- cion (by other heranding 2 cordance wid de sections tandard AN	) psf bottom other live loa e load of 20. a rectangle veen the bott o grain value a. Building ng surface. ers) of truss 1 lb uplift at j th the 2015 R502.11.1 a ISI/TPI 1.	ads. Opsf rom to to joint and						
1) Wind: ASC	CE 7-10; Vult=115mph	(3-second gust)	LC	DAD CASE(S)	Standard									

 Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=18.7 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.

SEAL 041860

March 21,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	D2	Monopitch	9	1	T30100021 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:58 

Page: 1



Scale = 1:25

Plate Offsets (	(X, Y): [1:0-0-7,0-0-14	], [1:0-2-4,Edge]										
Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL	(psf) 20.0 18.7/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/TPI2014	CSI TC BC WB 4 Matrix-MP	0.64 0.46 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.16 0.02	(loc) 3-8 3-8 1	l/defl >999 >541 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0										Weight: 26 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing. (size) 1=0-3-8, 3 Max Horiz 1=61 (LC Max Uplift 1=-21 (LC	athing directly appli cept end verticals. applied or 10-0-0 o 3=0-1-8 15) 2 12), 3=-24 (LC 16)	6) * This ti on the I 3-06-00 chord a 7) Bearing using A designe 8) Provide bearing 1 and 2 10) This tru Internal	uss has been designe pottom chord in all area tall by 2-00-00 wide w nd any other members at joint(s) 3 considers NSI/TPI 1 angle to gra re should verify capacit mechanical connectic plate at joint(s) 3. mechanical connectic plate capable of withs 4 lb uplift at joint 3. ss is designed in acco ional Residential Code	d for a liv as where vill fit bety s parallel in formul y of bear on (by oth tanding 2 rdance we e sections	re load of 20. a rectangle ween the bott to grain value a. Building ing surface. iers) of truss 21 lb uplift at j ith the 2015 s R502.11.1 a	Opsf om to to ioint					
FORCES	Max Grav 1=330 (LC (lb) - Maximum Com Tension 1-2=-62/45, 2-3=-18	0/89	R802.1 LOAD CAS	0.2 and referenced sta E(S) Standard	Indard Al	NSI/TPI 1.						
BOT CHORD	1-3=-117/96											
<ol> <li>Wind: ASt Vasd=91n II; Exp B; and C-C E exposed ; members Lumber D</li> <li>TCLL: AS DOL=1.15 snow; Ps DOL=1.00 Unobstruc</li> <li>Roof desig slope.</li> <li>Unbalancı design.</li> <li>This truss chord live</li> </ol>	CE 7-10; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er Exterior (2) zone; cantil end vertical left and rig and forces & MWFRS IOL=1.60 plate grip DO CE 7-10; Pr=20.0 psf ( 5 Plate DOL=1.00); Pf= :=18.7 psf (roof snow: L D); Category II; Exp B; I cted slippery surface gn snow load has been ed snow loads have be has been designed for load nonconcurrent wi	(3-second gust) DL=6.0psf; h=30ft; ( welope) exterior zor ever left and right ght exposed;C-C for for reactions shown DL=1.33 roof live load: Lumb 20.0 psf (flat roof mber DOL=.115 F Fully Exp.; Ct=1.10; n reduced to account een considered for the r a 10.0 psf bottom th any other live load	Cat. ne ; er Plate t for nis ds.							and an and a state of the state	SE/ 0418	AROLINA AL 360 VEER EL MINING
WARN Design v a truss sy building o is always fabricatio Safety In	NING - Verify design paramete alid for use only with MiTeKe system. Before use, the buildi design. Bracing indicated is to required for stability and to p n, storage, delivery, erection nformation available from T	ers and READ NOTES ON o connectors. This design ng designer must verify th to prevent buckling of ind prevent collapse with pos and bracing of trusses ai russ Plate Institute, 2670	THIS AND INCLUDED MI is based only upon param e applicability of design p ividual truss web and/or cl sible personal injury and p ind truss systems, see Crain Highway, Suite 203	TEK REFERENCE PAGE MII letters shown, and is for an ir arameters and properly inco- nord members only. Addition roperty damage. For gener- <b>ANSJ/TPH Quality Cr</b> Waldorf, MD 20601	I-7473 rev. 5 Individual bu rporate this nal tempora al guidance <i>iteria, DSB</i>	5/19/2020 BEFOR ilding componen design into the c ry and permaner regarding the -89 and BCSI B	E USE. t, not overall nt bracing uilding Cor	nponent			AT ENGINEER B18 Soundside R Edenton, NC 275	NG BY A Mitek Affiliate Road 332

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	D3	Monopitch	5	1	T30100022 Job Reference (optional)

5-10-8

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

1-11-8

-5-14

Run; 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:58 ID:p42ZWNLxWQzA5IkuiAZO1ozaJgr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

2x4 🛛 12 3 ∟ 2 8 0 3x8 II 1-8-0 3

2x4 II



1

0



<u></u>]-3-8

Scale = 1:23.6

Plate Offsets (X, Y): [1:0-0-6,0-0-14], [1:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC	0.30	Vert(LL)	0.04	3-5	>999	240	MT20	244/190
Snow (Ps/Pf)	18.7/20.0	Lumber DOL	1.15		BC	0.22	Vert(CT)	-0.04	3-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC201	5/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 21 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Except Left: 2x4 SP No.3 Structural wood shea 5-9-0 oc purlins, exc	* 2-3:2x4 SP No.2 thing directly applie ept end verticals.	5 6 ed or 7	This truss ha chord live lo * This truss on the botto 3-06-00 tall chord and a Bearing at jo using ANSI/	as been designed ad nonconcurren has been design m chord in all are by 2-00-00 wide ny other member pint(s) 3 consider TPI 1 angle to gr	d for a 10.0 at with any ed for a liv eas where will fit betw rs. s parallel t ain formula	) psf bottom other live loa e load of 20.0 a rectangle veen the botto o grain value a. Building	ads. Opsf om					
BOT CHORD	Rigid ceiling directly a bracing. (size) 1=0-3-8, 3: Max Horiz 1=46 (LC 1 Max Uplift 1=-47 (LC Max Grav 1=208 (I C	applied or 10-0-0 o =0-1-8 15) 12), 3=-50 (LC 12) 2) 3=178 (I C 2)	c 8	<ul> <li>designer should verify capacity of bearing surface.</li> <li>8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.</li> <li>9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1 and 50 lb uplift at joint 3.</li> </ul>									
FORCES	(lb) - Maximum Comp Tension	pression/Maximum	1	Internationa R802 10 2 a	designed in account of the sidential Codure of the sidential Codure of the sidential Codure of the siden of t	ordance wi le sections andard AN	th the 2015 R502.11.1 a ISI/TPI 1	and					
TOP CHORD	1-2=-48/47, 2-3=-121	/83	1	DAD CASE(S)	Standard	andara	0,1111						
BOT CHORD	1-3=-51/56		_	5/12 5/10E(0)	etandulu								
NOTES													
<ol> <li>Wind: ASC Vasd=91m II; Exp B; I and C-C E</li> </ol>	CE 7-10; Vult=115mph ( nph; TCDL=6.0psf; BCE Enclosed; MWFRS (env Exterior (2) zone; cantile	(3-second gust) DL=6.0psf; h=30ft; ( velope) exterior zor ver left and right	Cat. ne									IN ATH C	ROUT

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=1.33 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof 2)

snow); Ps=18.7 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface

3) Roof design snow load has been reduced to account for slope.

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



March 21,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	D4	Monopitch	1	1	T30100023 Job Reference (optional)

Run: 8,63 S Nov 19 2022 Print: 8,630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:59 ID:p42ZWNLxWQzA5IkuiAZO1ozaJgr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1	3-2-8	4-6-8	5-10-8
Γ	3-2-8	1-4-0	1-4-0





Scale = 1:38.4

Plate Offsets	(X, Y): [1:0-0-6,0-0-14]	], [1:0-3-8,Edge]											
Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL	(psf) 20.0 18.7/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.23 0.25 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.04 -0.05 0.00	(loc) 6-7 6-7 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 24 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep Left: 2x4 SP No.3 Structural wood sheat 5-9-0 oc purlins, exa Rigid ceiling directly bracing. (size) 1=0-3-8, 5 Max Horiz 1=46 (LC Max Uplift 1=-47 (LC Max Grav 1=208 (LC (lb) - Maximum Com Tension 1-2=-49/29, 2-3=-43, 4-5=-97/78 1-7=-45/39, 6-7=-23, 2-7=-30/24, 3-6=-29	t* 4-5:2x4 SP No.2 athing directly applie cept end verticals. applied or 10-0-0 or 5=0-1-8 15) 2 12), 5=-50 (LC 12) 2 2), 5=178 (LC 2) pression/Maximum /31, 3-4=-38/33, /25, 5-6=-23/25	4 5 6 9 9 1 1	<ul> <li>Unbalanced design.</li> <li>This truss ha chord live loa</li> <li>This truss for the bottor 3-06-00 tall b chord and ar</li> <li>Bearing at jo using ANSI/1 designer shot</li> <li>Provide mec bearing plate</li> <li>Provide mod bearing plate</li> <li>1 and 50 lb u</li> <li>This truss is International R802.10.2 ar</li> <li>OAD CASE(S)</li> </ul>	snow loads hav as been designe ad nonconcurrer has been designe of chord in all ar y 2-00-00 wide by other membe int(s) 5 conside (FPI 1 angle to g uld verify capac hanical connect at joint(s) 5. hanical connect capable of with uplift at joint 5. designed in acc Residential Con nd referenced s Standard	re been cor ad for a 10.0 nt with any hed for a liv eas where will fit betw ers. rs parallel t rain formula city of beari tion (by oth- tion (by oth- nstanding 4 cordance wi de sections tandard AN	Isidered for t opsf bottom other live loze e load of 20. a rectangle veen the bott o grain value a. Building ng surface. ers) of truss of truss 7 lb uplift at ith the 2015 R502.11.1 a ISI/TPI 1.	his ads. Opsf om to to joint					
NOTES 1) Wind: AS( Vasd=91r II; Exp B; and C-C E exposed ; and right of	CE 7-10; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (en Exterior (2) zone; cantili end vertical left and rig exposed;C-C for memb	(3-second gust) DL=6.0psf; h=30ft; C ivelope) exterior zon ever left and right ght exposed; porch lu ers and forces &	Cat. e eft								and a second	OPTH C	ROLING

- MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 2) DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof
- snow); Ps=18.7 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.



March 21,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	D6	Monopitch Supported Gable	4	1	T30100024 Job Reference (optional)

6-8-0 6-8-0

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:11:59 ID:f50P4wjKBfGCgul2?enQAfzaJrz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









Scale = 1:34.7

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	0.83	Vert(LL)	-0.10	4-5	>772	240	MT20	244/190
Snow (Ps/Pf)	18.7/20.0	Lumber DOL	1.15		BC	0.53	Vert(CT)	-0.20	4-5	>386	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC201	5/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 38 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 4=0-1-8, § Max Horiz 5=115 (LC Max Grav 4=267 (LC Max Grav 4=267 (LC (lb) - Maximum Com Tension 2-5=-228/132, 1-2=0 3-4=-203/117 4-5=-181/139	athing directly applied cept end verticals. applied or 10-0-0 oc 5=0-1-8 C 13) C 16), 5=-35 (LC 12) C 23), 5=292 (LC 2) pression/Maximum )/14, 2-3=-80/67,	5 6 7 dor 8 9 1 1	<ul> <li>This truss ha load of 12.0 overhangs n</li> <li>This truss ha chord live loa</li> <li>This truss h on the bottor 3-06-00 tall t chord and ar</li> <li>Bearing at jo using ANSI/ designer sho</li> <li>Provide mec bearing plate 4 and 35 lb u</li> <li>This truss is International 8802 10 2 a</li> </ul>	as been designed psf or 2.00 times on-concurrent wit as been designed ad nonconcurrent has been designe m chord in all area by 2-00-00 wide w ny other members int(s) 4, 5 consist hanical connectio e at joint(s) 4, 5. hanical connectio e capable of withs uplift at joint 5. designed in accoor Residential Code d referenced sta	for great flat roof li h other lin for a 10.0 with any d for a liv as where rill fit betv ars paralli in formula y of bear n (by oth tanding 2 rdance w s sections nodard AD	er of min roof bad of 20.0 p ve loads. D psf bottom other live load e load of 20.1 a rectangle veen the bott el to grain val a. Building ing surface. ers) of truss 1 crs) of truss 1 ith the 2015 s R502.11.1 a SU/TPI 1	live sf on ds. Dpsf om ue o o o nt					
WEBS	2-4=-104/153		L	OAD CASE(S)	Standard		NOI/1111.						
NOTES				.,									
<ol> <li>Wind: ASC Vasd=91m</li> </ol>	CE 7-10; Vult=115mph ph; TCDL=6.0psf; BC	(3-second gust) DL=6.0psf; h=30ft; C	at.									unin C	AD

II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;

- Lumber DOL=1.60 plate grip DOL=1.33 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=18.7 psf (roof snow: Lumber DOL=1.15 Plate 2) DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.

C SEAL 041860

March 21,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	E1	Common Supported Gable	1	1	T30100025 Job Reference (optional)

Run: 8.63 S Feb 9 2023 Print: 8.630 S Feb 9 2023 MiTek Industries, Inc. Tue Mar 21 13:21:02 ID:zyj2xFpsHhoDzrlOa9GaATza6SZ-LxLLYzPPJGBzkDTl0zWE\_wGWNR?xOuM14170ClzYj2?

Page: 1





Scale = 1:34.7

3-2-13

Loading TCLL (roof) Snow (Ps/Pi TCDL BCLL BCDL	(psf) 20.0 f) 6.8/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.06 0.07 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 10-11 11-12 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 66 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHOR BOT CHOR OTHERS BRACING TOP CHOR BOT CHOR REACTION: (Ib)	<ul> <li>D 2x4 SP No.2</li> <li>D 2x4 SP No.2</li> <li>2x4 SP No.3</li> <li>D Structural wood she 10-0-0 oc purlins.</li> <li>D Rigid ceiling directly bracing.</li> <li>S All bearings 14-7-0. e</li> <li>10 Max Horiz 18=-36 (L Max Uplift All uplift 1 10, 11, 12 Max Grav All reactic (s) 10, 11 19 (lb) - Max. Comp./M (lb) or less except w</li> </ul>	athing directly appli applied or 6-0-0 oc xcept 10=0-3-8, 19= C 17) 00 (lb) or less at joi 2, 13, 15, 17, 18, 19 ons 250 (lb) or less a , 12, 13, 14, 15, 17, ax. Ten All forces hen shown.	5 6 7 8 9 =0-3-8 1 at joint 1 18, 1 18, 1	<ul> <li>Roof design slope.</li> <li>Unbalanced design.</li> <li>Gable studs</li> <li>This truss ha chord live lo.</li> <li>* This truss la chord and an 0. Provide mec bearing plate joint(s) 15, 1</li> <li>This truss is International R802.10.2 a</li> </ul>	snow load has b snow loads have spaced at 2-0-0 as been designed ad nonconcurren has been designed m chord in all are by 2-00-00 wide thanical connecti e capable of with 7, 18, 13, 12, 11 designed in accor Residential Cod nd referenced sta Standard	been reduc e been cor oc. d for a 10.0 t with any ed for a liv ass where will fit betw 's. on (by oth standing 1 , 10, 19. ordance w le sections andard AN	ed to accour asidered for t 0 psf bottom other live loa e load of 20. a rectangle veen the bott ers) of truss t 00 lb uplift at the 2015 R502.11.1 a (SI/TPI 1.	nt for his ads. Opsf com t t and				-	
NOTES 1) Unbalar this desi 2) Wind: A Vasd=9 II; Exp E and C-C exposed	iced roof live loads have ign. SCE 7-10; Vult=115mph 1mph; TCDL=6.0psf; BC 8, Enclosed; MWFRS (er Exterior (2) zone; cantil 1; end vertical left and riu	been considered fo (3-second gust) DL=6.0psf; h=30ft; ivelope) exterior zon ever left and right ght exposed;C-C for	or Cat. ne r									NHTH C	

- members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
  Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=6.8 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface

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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SEAL

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March 21,2023

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Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	E2	Common	1	1	T30100026 Job Reference (optional)

 1
 Job Reference (optional)

 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:00
 Page: 1

 ID:GZA6zS6wd3qprX70\_ChD8Xza6SB-RfC?Psb70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
 Page: 1



Scale = 1:32.3

## Plate Offsets (X, Y): [1:0-2-5,Edge], [3:0-2-5,Edge], [4:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC	0.59	Vert(LL)	-0.07	4-14	>999	240	MT20	244/190	
Snow (Ps/Pf)	17.2/20.0	Lumber DOL	1.15		BC	0.43	Vert(CT)	-0.11	4-14	>999	180	MT20HS	187/143	
TCDL	10.0	Rep Stress Incr	YES		WB	0.11	Horz(CT)	0.02	3	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TF	PI2014	Matrix-MS									
BCDL	10.0											Weight: 61 lb	FT = 20%	
LUMBER			5) U	nbalanced	snow loads have	been cor	nsidered for t	his						
TOP CHORD	2x4 SP No.2		de	esign.										
BOT CHORD	2x4 SP No.2		6) A	Il plates are	MT20 plates unle	ess other	wise indicate	ed.						
WEBS	2x4 SP No.3		7) TI	his truss ha	s been designed	for a 10.0	) psf bottom							
WEDGE	Left: 2x6 SP No.2		ch	hord live loa	d nonconcurrent	with any	other live loa	ads.						
	Right: 2x6 SP No.2		8) *	This truss h	as been designe	d for a liv	e load of 20.	0psf						
BRACING			0	n the botton	n chord in all area	as where	a rectangle							
TOP CHORD	Structural wood she	athing directly applie	dor <sup>3</sup>	-06-00 tall b	y 2-00-00 wide w	ill fit betv	veen the bott	om						
	5-1-1 oc purlins.		ch	hord and an	y other members									
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	; 9) P	rovide mech	nanical connectio	n (by oth	ers) of truss	to						
	bracing.		De	earing plate	capable of withs	tanding 3	of its uplift at	joint						
REACTIONS	(size) 1=0-3-8, 3	3=0-3-8	10) T	and 31 lb u	plift at joint 3.	danco w	ith the 2015							
	Max Horiz 1=-36 (LC	2 17)	10) In	ternational	Residential Code	sections	R502 11 1	and						
	Max Uplift 1=-31 (LC	2 12), 3=-31 (LC 13)	R	802 10 2 ar	nd referenced sta	ndard AN	ISI/TPI 1							
	Max Grav 1=657 (LC	C 2), 3=657 (LC 2)		CASE(S)	Standard									
FORCES	(lb) - Maximum Com	pression/Maximum	20/12	0/102(0)	olandara									
	Tension													
TOP CHORD	1-2=-898/134, 2-3=-	898/134												
BOT CHORD	1-3=-59/790													
WEBS	2-4=0/276													
NOTES												minin	11111	
1) Unbalance	ed roof live loads have	been considered for	•									"TH 9	ARO	
this design	ן. רב ד 40: עניוג 445	( <b>0</b>												1,
2) Wind: ASC	JE 7-10; Vult=115mpn	(3-second gust)	<b>Net</b>								5	V. FER	HONEV	10
	Enclosed: MW/ERS (or	DL=6.0psi; n=30ii; C	-al.								31	<b>~</b>	1 4:7	3
and C-C E	Enclosed, MWERG (el	ever left and right	e								2	· ? )	V X	1
exposed .	end vertical left and rid	aht exposed C-C for									2	: CE	AL :	=
members	and forces & MWFRS	for reactions shown:										: 31/	<u>-</u> :	=
Lumber D	OL=1.60 plate grip DO	L=1.33									2	0418	360 🔅	<b>-</b>
3) TCLL: AS	CE 7-10; Pr=20.0 psf (	roof live load: Lumbe	er								=			
DOL=1.15	Plate DOL=1.00); Pf=	20.0 psf (flat roof									3	1. A.		
snow); Ps	=17.2 psf (roof snow: l	_umber DOL=1.15 P	late								-		IFER. A	1
DOL=1.00	); Category II; Exp B; I	Fully Exp.; Ct=1.10;									1	0,	15.5.6	5
Unobstruc	ted slippery surface											1, OLIN	VELIN	
<ol> <li>Roof designation</li> </ol>	gn snow load has beer	reduced to account	tor									11101		
siope.													Morch	21 2022
													iviarch	∠ i ,∠u23



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	E3	Roof Special	3	1	T30100027 Job Reference (optional)

Run: 8.63 S. Nov 19 2022 Print: 8.630 S.Nov 19 2022 MiTek Industries. Inc. Mon Mar 20 15:12:00 ID:WrGN?9duVHFiV8wH?kzIObza6RW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



FORCES (lb) - Maximum Compression/Maximum Tension 1-2=-184/41, 2-3=-1376/142, 3-4=-1378/142, TOP CHORD 4-5=-183/40 BOT CHORD 1-12=-36/69, 11-12=0/0, 10-11=0/0,

Max Grav 6=666 (LC 2), 12=665 (LC 2)

2-9=-66/1307, 4-9=-65/1307, 7-8=0/0, 6-7=0/0, 5-6=-5/67 WEBS 3-9=0/300, 2-11=0/53, 4-7=0/54

#### NOTES

Scale = 1:37.5

Loading

TCDL

BCLL

BCDL

WEBS

LUMBER

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

BRACING

TCLL (roof)

Snow (Ps/Pf)

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 3) DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=17.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface



March 21,2023



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12 and 42 lb uplift at joint 6.

LOAD CASE(S) Standard

9)

This truss is designed in accordance with the 2015

R802.10.2 and referenced standard ANSI/TPI 1.

International Residential Code sections R502.11.1 and

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	F1	Roof Special Structural Gable	1	1	T30100028 Job Reference (optional)

Run: 8,63 S Nov 19 2022 Print: 8,630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:00 ID:W17CCsODMEafkaoHVawTKnza6C.I-RfC2PsB70Ha3NSaPaal 8w3uITXbGKWrCDoi7.I4z.IC?f

Page: 1

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		2-0-4	4-0-4 6-0-4	8-0-4	10-0-4 12	-0-4 14-0-4 15-	<u>-10-8 18</u>	-4-12	2	28-11-6			31-9-0	
		2-0-4	2-0-0 2-0-0	2-0-0	2-0-0 2-	1 8 8	10-4 2	-0-4		0-6-10			2-9-10	
					. 1-	8-8	-5-0							
				1-8-8	 ↓ 1-8-8 ↓	2×4 II	5x8 II							
-	Г		1-8-8	1	12 244 1	3x4 ≈ 2x4 II 9		3x6 II	~					
				4	2,74 1	7 8			12					
			2	2 2x4 u F	2x4 II 635				36					
8- 6-			2x4 II 4			ဆု ကို				$\geq$		2x4 II		
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		1			3 3			28 0					14	
-	LĕŢ							18 <del>.</del>						
	C	3x4= 2	27 26 2	2524 2	××××××××××××××××××××××××××××××××××××××	21 20	××××××××××××××××××××××××××××××××××××××	4x6 =				1716	⊠ 15	
		2	2x4 II 2x4 II 2	2x4 II 2	2x4 II 2x4 II	2x4 II 2x4 II	3x4=	2x4 II				2X4 II	3x4=	
				3x4 =				2x4=	-					
		0-11-0	1 1 4-0-4 1 6-0-4	8-0-4	10-0-4 1 12	-0-4 14-0-4 15-	16-4-12 8-12	8-6-8	2	28-6-8		-30 28-11-6	.10-0 31-9-0	
		0-11-0	2-0-0 2-0-0	2-0-0	2-0-0 2-	0-0 2-0-0 1-	8-80-8-02	2-1-12	1	0-0-0		0-4-14	0-11-0	
Scale = 1:60.5		1-1-4	1									1-1	0-10	_
Plate Offsets (	X, Y): [28:	0-2-3,Edge												
Loading		(psf)	Spacing	2-0-0		CSI	0.02	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
Snow (Ps/Pf)	1	7.2/20.0	Lumber DOL	1.00		BC	0.93	Vert(CT) -0	.24 17	>759 >494	240 180	WI120	244/190	
TCDL		10.0	Rep Stress Incr	YES	015/TDI2014	WB Matrix MS	0.38	Horz(CT) 0	.14 15	n/a	n/a			
BCDL		10.0	Code	INCZ	J15/1F12014	Wathx-WiS						Weight: 165 lb	FT = 20%	
LUMBER					WEBS	10-19=-650/107	, 19-28=-5	02/181,	LOAD	CASE(S)	Star	ndard		
TOP CHORD	2x4 SP N	lo.2 *Excep	ot* 10-12,12-14:2x6	SP		10-28=-277/763	, 13-16=0/- -22=-127/5	45, 9-20=-179/59, 0 5-23=-125/53	,					
BOT CHORD	2x4 SP N	lo.2 *Excep	ot* 18-11:2x4 SP No	o.3		4-25=-120/39, 3-	-26=-211/9	5, 2-27=-131/101	I					
WEBS BRACING	2x4 SP N	lo.3			NOTES 1) Unbalance	ed roof live loads h	ave been (	considered for						
TOP CHORD	Structura	I wood she	athing directly appli	ied or	this design			()						
BOT CHORD	2-2-0 oc Rigid ceil	purlins. ling directly	applied or 6-0-0 oc	;	<li>Z) Wind: ASC Vasd=91n</li>	ph; TCDL=6.0psf;	mpn (3-sec ; BCDL=6.0	ond gust) Opsf; h=30ft; Cat.						
DEACTIONS	bracing.	15-0.2.9	10 15 7 9 20 15	7 0	II; Exp B; I and C-C F	Enclosed; MWFRS	6 (envelope antilever le	e) exterior zone						
REACTIONS	(SIZE)	15=0-3-8, 21=15-7-8	8, 22=15-7-8, 20=15- 8, 22=15-7-8, 23=15	-7-8, 5-7-8,	exposed ;	end vertical left an	nd right exp	osed;C-C for						
	Max Horiz	25=15-7-8 27=-72 (L	8, 26=15-7-8, 27=15 .C 17)	5-7-8	Lumber D	OL=1.60 plate grip	DOL=1.3	Stions shown,						
	Max Uplift	15=-110 (	(LC 13), 19=-117 (LC	.C 13),	<ol> <li>TCLL: AS DOI =1 15</li> </ol>	CE 7-10; Pr=20.0 p Plate DOI =1 00):	psf (roof liv Pf=20.0 p	e load: Lumber sf (flat roof						
		20=-18 (L 22=-18 (L	.C 16), 23=-24 (LC <sup>2</sup>	10), 12),	snow); Ps	=17.2 psf (roof sno	w: Lumbe	DOL=1.15 Plate	•					
		25=-4 (LC 27=-213 (	C 16), 26=-85 (LC 12 (LC 34)	2),	Unobstruc	i); Category II; Exp ted slippery surfac	e B; Fully E	xp.; Ct=1.10;						
	Max Grav	15=422 (L	LC 34), 19=950 (LC	23),	<ol> <li>Roof designation</li> <li>slope</li> </ol>	gn snow load has b	been reduc	ed to account for						
		20=188 (L 22=165 (L	LC 22), 21=201 (LC LC 22), 23=173 (LC	, ∠∠), ; 2),	5) Unbalance	ed snow loads have	e been cor	nsidered for this				minin	in the second se	
		25=160 (L 27=189 (I	LC 33), 26=350 (LC LC 33)	2),	<ul><li>design.</li><li>6) This truss</li></ul>	has been designe	d for a 10.0	) psf bottom				"aTH M	ROIT	
FORCES	(lb) - Max	kimum Com	pression/Maximum	1	chord live 7) * This true	load nonconcurrer	nt with any	other live loads.			3	S. EFS	ION N'	
TOP CHORD	Tension 1-2=-151	/468, 2-3=-	147/512, 3-4=-109/	475,	on the bot	tom chord in all are	eas where	a rectangle			3		N 7: -	
	4-5=-89/4	485, 5-6=-6	5/483, 6-8=-42/482,	,	3-06-00 ta chord and	any other member	will fit betv rs.	veen the bottom				SF4	AL E	
	U 3-113/4		, , , <del>,</del> , , , , , , , , , , , , , , ,	,	8) Provide m	echanical connecti	ion (by oth	ers) of truss to			2	0418	260	
	11-13=-4	0/150, 13-1	14=-105/54		bearing of	ate capable of with	nstanding 1	17 lb uplitt at ioin	)Ť					
BOT CHORD	11-13=-4 1-27=-44 25-26=-4	0/150, 13-1 9/159, 26-2 49/162, 23·	14=-105/54 27=-449/162, -25=-449/162,		bearing pl 19, 16 lb ι	ate capable of with plift at joint 20, 20	standing 1 Ib uplift at	17 lb uplift at join joint 21, 18 lb	it			1 0410		
BOT CHORD	11-13=-4 1-27=-44 25-26=-4 22-23=-4	0/150, 13-1 9/159, 26-2 49/162, 23- 49/162, 21-	14=-105/54 27=-449/162, -25=-449/162, -22=-449/162, -20=-449/162		bearing pl 19, 16 lb u uplift at joi 25, 85 lb u	ate capable of with iplift at joint 20, 20 nt 22, 24 lb uplift a iplift at joint 26, 213	istanding 1 Ib uplift at it joint 23, 4 3 Ib uplift a	17 lb uplift at join joint 21, 18 lb 4 lb uplift at joint t joint 27 and 110	)			. Enco	-ER. A	
BOT CHORD	11-13=-4 1-27=-44 25-26=-4 22-23=-4 20-21=-4 18-19=-1	0/150, 13-1 9/159, 26-2 49/162, 23- 49/162, 21- 49/162, 19- 1/41, 18-28	14=-105/54 27=-449/162, -25=-449/162, -22=-449/162, -20=-449/162, 3=-5/40, 11-28=-846	6/329,	bearing pl 19, 16 lb u uplift at joi 25, 85 lb u lb uplift at 9) This truss	ate capable of with uplift at joint 20, 20 nt 22, 24 lb uplift a uplift at joint 26, 21 joint 15.	Istanding 1 Ib uplift at it joint 23, 4 3 Ib uplift a	17 lb uplift at join joint 21, 18 lb 4 lb uplift at joint t joint 27 and 110 ith the 2015	)		A. A	× <sup>€</sup> NGIN	EEREL	
BOT CHORD	11-13=-4 1-27=-44 25-26=-4 22-23=-4 20-21=-4 18-19=-1 16-17=0/	0/150, 13-1 9/159, 26-2 49/162, 23- 49/162, 21- 49/162, 19- 1/41, 18-28 0, 15-16=0/	14=-105/54 27=-449/162, -25=-449/162, -22=-449/162, -20=-449/162, 3=-5/40, 11-28=-846 /0, 14-15=-13/35	6/329,	bearing pl 19, 16 lb u uplift at joi 25, 85 lb u lb uplift at 9) This truss Internation	ate capable of with uplift at joint 20, 20 nt 22, 24 lb uplift a uplift at joint 26, 21: joint 15. is designed in acc nal Residential Coc	Istanding 1 Ib uplift at it joint 23, 4 3 Ib uplift a ordance w de sections	17 lb uplift at join joint 21, 18 lb 4 lb uplift at joint t joint 27 and 110 ith the 2015 5 R502.11.1 and	)		A DATE OF THE OWNER		EER. EL IN	
BOT CHORD	11-13=-4 1-27=-44 25-26=-4 22-23=-4 20-21=-4 18-19=-1 16-17=0/	0/150, 13-1 9/159, 26-2 49/162, 23: 49/162, 21: 49/162, 19: 1/41, 18-28 0, 15-16=0,	14=-105/54 27=-449/162, -25=-449/162, -22=-449/162, -20=-449/162, 3=-5/40, 11-28=-846 /0, 14-15=-13/35	6/329,	bearing pl 19, 16 lb u uplift at joi 25, 85 lb u lb uplift at 9) This truss Internation R802.10.2	ate capable of with uplift at joint 20, 20 nt 22, 24 lb uplift a uplift at joint 26, 21: joint 15. is designed in acc nal Residential Coc and referenced st	Istanding 1 Ib uplift at it joint 23, 4 3 Ib uplift a ordance w de sections tandard AN	17 lb uplift at join joint 21, 18 lb 4 lb uplift at joint t joint 27 and 110 ith the 2015 • R502.11.1 and ISI/TPI 1.	)		AL DE		March 21.202	23



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	F2	Roof Special	1	1	T30100029 Job Reference (optional)

15-10-8

7-9-7

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

8-1-1

8-1-1

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:01





2-1-12

Scale = 1:56.6

Plate Offsets (X, Y):	[1:Edge,0-0-10], [1	:0-2-5,Edge], [7:0-2-4,0-0	-4], [7:0-1-3,0-2-0], [8:0-2	2-15,0-0-2], [8:0-0-13,1-2	-14], [11:0-8-0,0-4-0]
-----------------------	---------------------	----------------------------	------------------------------	----------------------------	------------------------

Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL LUMBER TOP CHORD BOT CHORD WEBS WEDGE	(psf) 20.0 17.2/20.0 10.0 0.0* 10.0 2x4 SP No.2 *Excep 2x4 SP No.2 *Excep 2x4 SP No.3 Left: 2x6 SP No.2	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code t* 4-6,6-8:2x6 SP No t* 12-5:2x4 SP No.3	2-0-0 1.00 1.15 YES IRC201 3) .2	5/TPI2014 TCLL: ASCE DOL=1.15 P snow); Ps=1 DOL=1.00); Unobstructe Roof docim	CSI TC BC WB Matrix-MS E 7-10; Pr=20.0 p late DOL=1.00); 7.2 psf (roof snor Category II; Exp d slippery surface	1.00 0.95 0.54 sf (roof liv Pf=20.0 p w: Lumbe B; Fully E e	DEFL Vert(LL) Vert(CT) Horz(CT) e load: Lumt sf (flat roof r DOL=1.15 I xp.; Ct=1.10;	in -0.34 -0.76 0.11 Der Plate	(loc) 7-11 7-11 8	l/defl >552 >245 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 158 lb	<b>GRIP</b> 244/190 187/143 FT = 20%	
BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91n II; Exp B; I and C-C exposed ; members Lumber D	Structural wood she Rigid ceiling directly 1 Row at midpt (size) 1=0-3-8, 8 Max Horiz 1=-72 (LC Max Uplift 1=-75 (LC 13=-52 (L Max Grav 1=458 (LC 13=2016 / (lb) - Maximum Com Tension 1-2=-452/463, 2-4=- 5-7=-94/1141, 7-8=- 1-15=-407/383, 13-1 12-13=-164/0, 11-12 2-15=0/338, 2-13=-1 11-13=-1167/276, 4- ed roof live loads have DE 7-10; Vult=115mph hph; TCDL=6.0psf; BC Enclosed; MWFRS (er Exterior (2) zone; cantil and forces & MWFRS OL=1.60 plate grip DO	athing directly applied applied. 2-13 3=0-3-8, 13=0-3-8 2 (17) 2 (16), 8=-27 (LC 17), C (13) C (13) C (13), 8=-276 (LC 34) (LC 2) pression/Maximum 66/1158, 4-5=0/1043 45/31 5=-407/383, 2=-690, 5-11=-748/2; J=0/0, 8-9=-14/38 089/184, 4-13=-918/ -11=-77/303, 7-9=0/5 been considered for (3-second gust) DL=6.0psf; h=30ft; C ivelope) exterior zone ever left and right pht exposed;C-C for for reactions shown; 'L=1.33	-, 6) 7) 8) , 9) , 114, 1 144, 1	Slope. Unbalanced design. All plates are This truss ha chord live loi * This truss l on the bottoo 3-06-00 tall t chord and a Provide mec bearing platt 13, 75 lb upl 0) This truss is International R802.10.2 a <b>DAD CASE(S)</b>	snow loads have e MT20 plates un as been designed ad nonconcurren has been designed n chord in all are by 2-00-00 wide to y other member hanical connective e capable of with iff at joint 1 and 2 designed in acco Residential Cod nd referenced sta Standard	e been cor less other f for a 10.7 t with any ed for a liv as where will fit betv s. on (by oth standing 5 27 lb uplift ordance w e sections andard AN	nsidered for t my seindicate of psf bottom other live load e load of 20. a rectangle veen the bott ers) of truss i2 lb uplift at at joint 8. it h the 2015 is R502.11.1 a JSI/TPI 1.	his ed. Opsf to joint and			The second se	SE/ 0418	AROLINA ONAL 360	and and and a second se

minim March 21,2023

818 Soundside Road Edenton, NC 27932

0-3-2



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	F3	Common	4	1	T30100030 Job Reference (optional)

Run: 8,63 S Nov 19 2022 Print: 8,630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:01 ID:sceCOoFlqj6rfYIMu7gSgXza5aT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:55.3

## Plate Offsets (X, Y): [1:Edge,0-0-14], [1:0-2-5,Edge], [7:Edge,0-0-14], [7:0-2-5,Edge]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC	0.95	Vert(LL)	-0.08	10-12	>999	240	MT20	244/190	
Snow (Ps/F	f) 17.2/20.0	Lumber DOL	1.15		BC	0.55	Vert(CT)	-0.17	10-12	>999	180	MT20HS	187/143	
TCDL	10.0	Rep Stress Incr	YES		WB	0.42	Horz(CT)	0.02	7	n/a	n/a			
BCLL	0.0*	Code	IRC2018	5/TPI2014	Matrix-MS									
BCDL	10.0											Weight: 143 lb	FT = 20%	
LUMBER			3)	TCLL: ASCE	7-10; Pr=20.0 psf	(roof liv	e load: Lumb	er						
TOP CHOR	D 2x4 SP No.2			DOL=1.15 PI	ate DOL=1.00); Pf=	=20.0 p	sf (flat roof							
BOT CHOR	D 2x4 SP No.2			snow); Ps=1	7.2 psf (roof snow:	Lumbe	DOL=1.15 F	Plate						
WEBS	2x4 SP No.3			DOL=1.00); (	Category II; Exp B;	Fully E	xp.; Ct=1.10;							
WEDGE	Left: 2x6 SP No.2		1)	Doof dooign	i siippery suriace	n roduo	ad to account	+ for						
	Right: 2x6 SP No.2		4)	slope	Show load has been	nieduc	eu lo accouri	1 101						
			. 5)	Unbalanced	snow loads have b	een cor	sidered for th	nis						
IOP CHOR	D Structural wood she	athing directly applie	d or o)	design.		0011 001		10						
	Z-Z-0 OC putitins. D Rigid ceiling directly	applied or 10-0-0 oc	. 6)	All plates are	MT20 plates unles	s other	wise indicate	d.						
	bracing		, T)	This truss ha	s been designed fo	or a 10.0	) psf bottom							
WEBS	1 Row at midpt	6-10 2-10		chord live loa	d nonconcurrent w	rith any	other live loa	ds.						
REACTION	<b>S</b> (size) 1-0-3-8 7	7-0-3-8 10-0-3-8	8)	* This truss h	as been designed	for a liv	e load of 20.0	)psf						
	Max Horiz 1=-69 (LC	(17)		on the botton	n chord in all areas	where	a rectangle							
	Max Uplift 1=-50 (LC	(12) 7=-56 (IC 17)		3-06-00 tall b	y 2-00-00 wide will	fit betv	een the botto	om						
	10=-18 (L	C 12)	0)	chord and an	y other members.	(by oth	oro) of truco t	•						
	Max Grav 1=584 (LC	C 33), 7=541 (LC 34)	9)	boaring plate	concello of withsto	(by oth nding 1	ers) or truss t 9 lb uplift at i	0 oint						
	10=1491	(LC 2)		10 50 lb unli	t at joint 1 and 56 l	hung i bunlift	at joint 7	UIII						
FORCES	(lb) - Maximum Com	pression/Maximum	10	) This truss is (	designed in accord	ance w	ith the 2015							
	Tension			International	Residential Code s	ections	R502.11.1 a	nd						
TOP CHOR	D 1-2=-771/127, 2-4=0	)/406, 4-6=0/474,		R802.10.2 ar	nd referenced stand	dard AN	ISI/TPI 1.						111.	
	6-7=-656/118		LC	DAD CASE(S)	Standard							M' G	10 111	
BOT CHOR	D 1-12=-104/682, 10-1	2=-104/682,										N'aTH Y	170/ 11	14
NEDO	8-10=-54/574, 7-8=-	54/5/4 - 026/177 6 9-0/27	70								1	O	in N	14
VEDO	2-10003/160 2-12	2=-930/177, 0-0=0/27	9,								3.	2.000	N: 5	12
	2 10- 333/103, 2 12	-0/000									2	:0	1 K .	-
1) Unbolo	and roof live loads have	been considered for										: 1		-
this des	ion	been considered for										SE/	۱L :	
2) Wind A	SCF 7-10: Vult=115mph	(3-second gust)									2	0418	860	
Vasd=9	1mph; TCDL=6.0psf; BC	DL=6.0psf; h=30ft; C	Cat.								-	: 0410		
II; Exp I	B; Enclosed; MWFRS (en	velope) exterior zon	е								-	1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -		2
and C-0	Exterior (2) zone; cantil	ever left and right									1	· ENIS	-cR. A	3
expose	d ; end vertical left and rig	ght exposed;C-C for									1	GIN	EF. CV	5
membe	rs and forces & MWFRS	for reactions shown;										1, AOU	VEL	
Lumber	DOL=1.60 plate grip DO	L=1.33										1, YUIN	V. IIII	
													inte.	
													March	21,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	G1	Common Supported Gable	1	1	T30100031 Job Reference (optional)

Run: 8.63 S Feb 9 2023 Print: 8.630 S Feb 9 2023 MiTek Industries, Inc. Tue Mar 21 13:22:02 ID:HSqdOLfhEvO\_xmo7k5JJzOzZ0eE-bUz18U81AilTxS3HXabJQallWdTUS1GttMfClpzYj13





Scale = 1:40.4

Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL	8	(psf) 20.0 3.1/20.0 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	)15/TPI2014	CSI TC BC WB Matrix-MS	0.11 0.10 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 12-13 22-23 12	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 91 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS (lb) -	2x4 SP Nc 2x4 SP Nc 2x4 SP Nc Structural 6-0-0 oc p Rigid ceilin bracing. All bearings Max Horiz Max Uplift Max Grav (lb) - Max. (lb) or less	0.2 0.2 0.3 wood she urlins. ng directly 21-0-0. e 22=37 (LC All uplift 1 12, 13, 14 23 All reaction (s) 12, 13 21, 22, 23 Comp./Mis e sccept w	athing directly appli applied or 6-0-0 oc xcept 12=0-3-8, 23= C 16) 00 (lb) or less at joi I, 15, 16, 18, 20, 21 ons 250 (lb) or less a , 14, 15, 16, 17, 18, ax. Ten All forces hen shown.	ed or =0-3-8 nt(s) , 22, at joint 20, 250	<ul> <li>5) Roof design slope.</li> <li>6) Unbalanced design.</li> <li>7) Gable studs</li> <li>8) This truss h chord live lo</li> <li>9) * This truss on the botto 3-06-00 tall</li> <li>10) Provide mea bearing plat joint(s) 18, 2</li> <li>11) This truss is Internationa R802.10.2 a</li> <li>LOAD CASE(S)</li> </ul>	snow load has b snow loads have spaced at 2-0-0 as been designe ad nonconcurren has been designe m chord in all are by 2-00-00 wide – ny other member shanical connecti e capable of with 20, 21, 22, 16, 15 designed in acco I Residential Cod und referenced stato Standard	been reduc e been cor oc. d for a 10.0 t with any ed for a liv eas where will fit betw rs. on (by oth standing 1 , 14, 13, 1: ordance w le sections andard AN	ed to accour asidered for the opsf bottom other live load e load of 20.0 a rectangle veen the botthers) of truss 1 00 lb uplift at 2, 23. th the 2015 R502.11.1 a ISI/TPI 1.	nt for his nds. Opsf om to t						
<ol> <li>Unbalance this design</li> <li>Wind: ASC Vasd=91n II; Exp B; I</li> </ol>	ed roof live lo n. CE 7-10; Vul nph; TCDL=6 Enclosed; M	bads have t=115mph 6.0psf; BC WFRS (en	been considered for (3-second gust) DL=6.0psf; h=30ft; ivelope) exterior zon	or Cat. ne									WHTH C	ROLIN	

- and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
  3) Truss designed for wind loads in the plane of the truss end forces are the trust of the trust
- only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber
- 4) TCLL: ASCE 7-10; PT=20.0 psr (roor live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=8.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface

SEAL 041860

March 21,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	G2	Common	5	1	T30100032 Job Reference (optional)

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:02 ID:a4HiRYylbHPapSek88kxxSzZ0ds-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:40.4

## Plate Offsets (X, Y): [1:0-2-4,Edge], [5:0-2-4,Edge]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	_
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC	0.78	Vert(LL)	-0.17	6-8	>999	240	MT20	244/190	
Snow (Ps/Pf)	18.7/20.0	Lumber DOL	1.15		BC	0.83	Vert(CT)	-0.41	6-8	>666	180			
TCDL	10.0	Rep Stress Incr	YES		WB	0.26	Horz(CT)	0.06	5	n/a	n/a			
BCLL	0.0*	Code	IRC2015	5/TPI2014	Matrix-MS									
BCDL	10.0											Weight: 91 lb	FT = 20%	
LUMBER			3)	TCLL: ASCE	7-10; Pr=20.0 psf	(roof liv	e load: Lumb	ber						
TOP CHORD	2x4 SP No.2			DOL=1.15 P	late DOL=1.00); Pt	f=20.0 p	sf (flat roof							
BOT CHORD	2x4 SP No.2			snow); Ps=1	8.7 psf (roof snow:	Lumber	DOL=1.15	Plate						
WEBS	2x4 SP No.3			DOL=1.00);	Category II; Exp B	; Fully E	xp.; Ct=1.10;	;						
WEDGE	Left: 2x4 SP No.3			Unobstructed	slippery surface									
	Right: 2x4 SP No.3		4)	Koot design	snow load has bee	en reduc	ea to accour	nt for						
BRACING	<b>a</b>		. 5)	Siupe.	snow loads have h	heen cor	sidered for t	his						
TOP CHORD	Structural wood shea 3-2-3 oc purlins.	athing directly applie	d or <sup>5)</sup>	design.										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	6)	this truss ha chord live loa	is been designed f ad nonconcurrent v	or a 10.0 with any	o pst bottom other live loa	ads.						
REACTIONS	(size) 1=0-3-8 5	5=0-3-8	7)	* This truss h	as been designed	l for a liv	e load of 20.	0psf						
	Max Horiz 1=37 (LC	16)		on the botton	n chord in all areas	s where	a rectangle							
	Max Uplift 1=-41 (LC	, 12), 5=-41 (LC 13)		3-00-00 tall t	y ∠-00-00 Wide Wi		veen ine bott	Om						
	Max Grav 1=910 (LC	C 2), 5=910 (LC 2)	8)	Provide med	hanical connection	h (by oth	ers) of truss	to						
FORCES	(lb) - Maximum Com	pression/Maximum	0)	bearing plate	capable of withst	anding 4	1 lb uplift at	joint						
	1 2- 1064/220 2 2-	1024/200		1 and 41 lb u	iplift at joint 5.		where 0015							
I OF CHURD	3-4-1934/239, 2-3=	-1964/200, -1964/239	9)	I NIS TRUSS IS	designed in accord	ance w	IT THE 2015	and						
BOT CHORD	1-8=-184/1850, 6-8=	-139/1421,		R802.10.2 a	nd referenced stan	Idard AN	ISI/TPI 1.	anu						
	5-6=-184/1850		LC	AD CASE(S)	Standard								1111	
WEBS	3-6=-59/627, 4-6=-28	80/122, 3-8=-59/627			2.13110010							C	AD	
	2-8=-280/122											"atty	10/11	
NOTES											3	01:245	10: 11	
1) Unbalance	ed roof live loads have	been considered for									2 .	< .: OVIA	No. 7	-
this desigi	n. CE 7 10: \/ult_115mph	(2 accord quat)									-	:0	K .	-
Z) WINU: ASO Vasd=01n	C = 1 - 10; Vuit=115mpn	(S-SECOND GUSI)	at								8	· .	A1 .	Ξ
II: Exp B:	Enclosed: MWFRS (en	velope) exterior zon	a 2									E SE/	AL :	Ξ
and C-C F	Exterior (2) zone: cantile	ever left and right	-									: 0418	360	-
exposed ;	end vertical left and ric	ht exposed;C-C for									1	1	· · ·	-
members	and forces & MWFRS	for reactions shown;									-			-
Lumber D	OL=1.60 plate grip DO	L=1.33									1		FER.A S	
											1	OWGIN	E. EVS	
											5	1, AOLIN	VELIN	

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



March 21,2023

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	G3	Common Girder	1	4	T30100033 Job Reference (optional)

Run: 8,63 S Nov 19 2022 Print: 8,630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:03 ID:OQ5Ee?SOOftc5FDh3821rnzZ06x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:40.4

## Plate Offsets (X, Y): [1:0-5-0,0-5-10], [5:0-5-0,0-5-10]

Loading TCLL (roof) Snow (Ps/Pf) TCDL	(psf) 20.0 18.7/20.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.15 NO		CSI TC BC WB	0.35 0.33 0.45	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.08 -0.16 0.02	(loc) 9 9 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190	
BCDL	10.0	Code	IRC201	0/1812014	IVIAUIX-IVIS							Weight: 585 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x10 SP DSS 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=0-3-8, 4 Max Horiz 1=37 (LC Max Uplift 1=-476 (L Max Grav 1=6484 (I	eathing directly applie r applied or 10-0-0 or 5=0-3-8 16) .C 8), 5=-158 (LC 9) .C 2), 5==2409 (LC 2)	3) ed or 4) c 5)	All loads are except if not CASE(S) se provided to o unless other Unbalanced this design. Wind: ASCE Vasd=91mp II; Exp B; En cantilever le right expose TCLL: ASCE	considered equa ed as front (F) or ction. Ply to ply co distribute only load wise indicated. roof live loads ha : 7-10; Vult=115m h; TCDL=6.0psf; i loclosed; MWFRS d; Lumber DOL=1 : 7-10; Pr=20.0 pc	Ily applied back (B) f connection ds noted a ve been o ph (3-sec BCDL=6.0 (envelope ed ; end v 1.60 plate of (roof liv 20.00 c	d to all plies, face in the LC s have been as (F) or (B), considered fo ond gust) pps; h=30ft; ( b) exterior zor ertical left an grip DOL=1. e load: Lumb	DAD r Cat. ne; d 33 er	13) Har pro lb c 337 sele res LOAD ( 1) De In Un	nger(s) c vided su own anc l b up at action of consibilit <b>CASE(S</b> ) cad + Sn crease= niform Lc Vert: 1-5 oncentra Vert: 9=	r other fficient 215 II 2-7-1 such o ty of ot ) Star ow (ba 1.00 bads (II 3=-57, ted Lo -2660	r connection devir t to support conci b up at 9-8-12, a 4 on bottom cho connection device hers. ndard alanced): Lumbei b/ft) 3-55-57, 1-55-20 ads (lb) (F), 19=-4175 (F	ce(s) shall be intrated load(s nd 4320 lb dov 'd. The design >(s) is the 'Increase=1.1{	) 2752 vn and i/ 5, Plate
	(lb) - Maximum Com Tension	npression/Maximum	,	snow); Ps=1 DOL=1.00);	8.7 psf (roof snov Category II; Exp I	v: Lumber B; Fully E	DOL=1.15 F xp.; Ct=1.10;	Plate						
BOT CHORD	3-4=-7233/479, 4-5= 1-10=-714/10056, 9 8-9=-416/6768, 6-8=	=-6299/423 -10=-714/10056, =-374/6079,	7) 8)	Roof design slope. Unbalanced	snow loads have	en reduc	ed to accoun sidered for th	t for nis						
WEBS	3-9=-269/3765, 2-9= 2-10=-27/763, 3-8=- 4-6=-864/112	=-1595/182, 10/460, 4-8=-108/11	9) 62, 10	This truss ha chord live lo ) * This truss l	as been designed ad nonconcurrent has been designe	for a 10.0 with any d for a liv	) psf bottom other live loa e load of 20.0	ds. Opsf				WITH Q	ARO	
NOTES 1) N/A				on the botton 3-06-00 tall I chord and a	m chord in all area by 2-00-00 wide w ny other members	as where vill fit betw 3.	a rectangle veen the botto	om			in the second se	NOFE	PON: 1	
<ol> <li>4-ply truss (0.131"x3" Top chord oc.</li> <li>Bottom ch staggered Web conn Attach BC</li> </ol>	to be connected toge ) nails as follows: s connected as follows ords connected as foll at 0-4-0 oc. ected as follows: 2x4 w/ 1/2" diam. bolts (A	ther with 10d s: 2x4 - 1 row at 0-9- ows: 2x10 - 5 rows - 1 row at 0-9-0 oc. STM A-307) in the	11 0 12	) Provide med bearing plate joint 1 and 1 ) This truss is International R802.10.2 a	hanical connection capable of withs 58 lb uplift at joint designed in acco Residential Code nd referenced sta	on (by othe tanding 4 5. rdance wi e sections indard AN	ers) of truss t 76 lb uplift at ith the 2015 R502.11.1 a ISI/TPI 1.	nd			THINK WARNEN	SE 041	AL 360	The second second

Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.



Page: 1

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



Thuman and

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	P1	Piggyback	14	1	T30100034 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:03 ID:E1aT52B6Jmh8HH6XpFa9VozaKYZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



2-10-10

Scale = 1:30.7

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [3:0-2-0,Edge], [4:0-2-6,0-1-0]

			,										
Loading	(psf)	Spacing Plate Grip DOI	2-0-0 1 00		CSI TC	0.04	DEFL Vert(LL)	in n/a	(loc)	l/defl	L/d 999	PLATES	<b>GRIP</b> 244/190
Snow (Ps/Pf)	8 3/20 0	Lumber DOI	1 15		BC	0.05	Vert(CT)	n/a	-	n/a	999		210,100
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC20	15/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 13 lb	FT = 20%
LUMBER			4	) TCLL: ASCE	E 7-10; Pr=20.0 p	osf (roof liv	e load: Lumb	ber					
TOP CHORD	2x4 SP No.2			DOL=1.15 P	late DOL=1.00);	Pf=20.0 p	sf (flat roof						
BOT CHORD	2x4 SP No.2			snow); Ps=8	.3 psf (roof snow	v: Lumber	DOL=1.15 PI	ate					
BRACING				DOL=1.00);	Category II; Exp	B; Fully E	xp.; Ct=1.10;						
TOP CHORD	Structural wood she	athing directly applie	ed or 5	) Roof design	d slippery suffac	e een reduc	ed to accour	t for					
	4-0-0 oc purlins.		5	slope	3110111080 1183 0	Jeen leuuc							
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	с 6	) This truss ha	as been designed	d for great	er of min roof	live					
PEACTIONS	(cizo) 2-2 10 10	1-2 10 10		load of 12.0	psf or 2.00 times	s flat roof le	ad of 20.0 p	sf on					
REACTIONS	(SIZE) 2=2-10-10	J, 4=2-10-10		overhangs n	on-concurrent w	ith other liv	/e loads.						
	Max Horiz 2=35 (LC	13)	7	) Gable requir	es continuous bo	ottom chor	d bearing.						
	Max Uplift 2=-4 (LC	14), 4=-4 (LC 15)	8	) Gable studs	spaced at 2-0-0	OC.							
		// ( /	9	) I his truss ha	as been designed	d for a 10.0	) pst bottom	de					
	Max Grav 2=136 (LC	C 2), 4=136 (LC 2)	1	O) * This truck	ad nonconcurren	nt with any	other live loa	lus. Opef					
			1	on the botto	n chord in all are	eu ior a liv	a rectande	оры					
FORCES	(lb) - Maximum Com	pression/Maximum		3-06-00 tall	ov 2-00-00 wide	will fit betv	veen the bott	om					
	Tension			chord and a	ny other member	rs.							
TOP CHORD	1-2=0/24, 2-3=-76/2	1, 3-4=-76/21, 4-5=0	<sup>)/24</sup> 1	1) Provide med	hanical connecti	ion (by oth	ers) of truss t	to					
BOT CHORD	2-4=-9/53			bearing plate	e capable of with	standing 4	Ib uplift at jo	oint					
NOTES				2, 4 lb uplift	at joint 4, 4 lb up	lift at joint	2 and 4 lb up	olift					
1) Unbalanc	ed roof live loads have	been considered fo	r .	at joint 4.								mini	IIIII.
this desig	n.	<i>(</i> <b>1</b> ) )	1	2) This truss is	designed in acco	ordance w	ith the 2015					WH C	ARO
2) Wind: AS	CE 7-10; Vult=115mph	(3-second gust)	Cat	International	Residential Cod		8 R502.11.1 a	and				i'a'	L. U.
	Enclosed: MW/ERS (or	DL=6.0psi; n=30it; (	Jal.	R0U2.1U.2 a 3) See Standau	d Industry Piggy	anuaru Ar back Trus	Connection				1	O'.FEB	Stor: V'
II; EXP B;	Enclosed; IVIVERS (eff	ever left and right	ie i	5) See Standar Detail for Co	a mausify Figgy	back itus a truss as a	applicable or					<	1. 7 :
exposed :	end vertical left and rid	ht exposed C-C for		consult qual	fied building des	ianer					Ξ	:2 M	
members	and forces & MWFRS	for reactions shown	: т	OAD CASE(S)	Standard	ignor.					Ξ	: 00	Λ1
Lumber D	OL=1.60 plate grip DO	L=1.33	, -		Otandara						=	: SE	AL :
3) Truss de	signed for wind loads ir	n the plane of the tru	ISS								=	: 041	860 :
only. For	studs exposed to wind	(normal to the face)	),								=		
see Stand	dard Industry Gable En	d Details as applical	ble,								-	N	
or consult	qualified building desig	gner as per ANSI/TF	PI 1.								1		FER.A.S
											1	0,	E. E.S
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												11 OIN	in the second seco
												2000	1111 C

March 21,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	P2	Piggyback	2	1	T30100035 Job Reference (optional)

0-6-7

1-5-5

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8,63 S Feb 9 2023 Print: 8,630 S Feb 9 2023 MiTek Industries, Inc. Tue Mar 21 13:30:56 ID:Pz9Q88v\_ssLjkgGuSfy\_CqzZ0ya-0q69oOaku9n\_ICjXil83\_mnhe4385eLAC7XLz\_zYiul

2-10-10

Page: 1



Scale = 1:26.8

Plate Offsets (X, Y): [2:0-2-6.0-1-0]. [4:0-2-6.0-1-0]

- 1410 0110010 (	(,,, ); [=:0 = 0,0 : 0];	[											
Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL	(psf) 20.0 8.3/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.02 0.03 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 14 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS (Ib) - FORCES NOTES 1) Unbalance this design 2) Wind: ASG Vasd=91n II; Exp 8; and C-C exposed ; members Lumber D 3) Truss des only. For see Stand or consult 4) TCLL: AS DOL=1.15 snow); Ps DOL=1.00 Unobstruct	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 4-0-0 oc purlins. Rigid ceiling directly bracing. All bearings 2-10-10. Max Horiz 2=35 (LC Max Uplift All uplift 1 2, 4, 7, 10 Max Grav All reactio (s) 2, 4, 6, (lb) - Max. Comp./Ma (lb) or less except will ed roof live loads have n. CE 7-10; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (en Exterior (2) zone; cantil end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO signed for wind loads ir studs exposed to wind lard Industry Gable End qualified building desig CE 7-10; Pr=20.0 psf ( 5 Plate DOL=1.00); Pf= =8.3 psf (roof snow: LL 0); Category II; Exp B; F	athing directly applie applied or 10-0-0 or 13), 7=35 (LC 13) 00 (lb) or less at joir ons 250 (lb) or less at , 7, 10 ax. Ten All forces hen shown. been considered fo (3-second gust) DL=6.0psf; h=30ft; ( ivelope) exterior zor ever left and right ght exposed;C-C for for reactions shown L=1.33 in the plane of the tru (normal to the face) d Details as applical gner as per ANSI/TF roof live load: Lumb 20.0 psf (flat roof imber DOL=1.15 Pl& Fully Exp.; Ct=1.10;	5) ed or 7) 8) c 9) 10 nt(s) 11 250 12 r 13 Cat. LC .; uss .), ble, PI 1. er ate	Roof design slope. This truss ha load of 12.0 overhangs r Gable requin Gable studs This truss ha chord live lo ) * This truss is on the botto 3-06-00 tall chord and a ) Provide meet bearing plat bearing plat bearing load R802.10.2 a ) See Standal Detail for Cc consult qual DAD CASE(S)	snow load has be as been designed psf or 2.00 times on-concurrent wit es continuous boi spaced at 1-4-0 of as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w my other members thanical connectio e capable of withs 2, 4. designed in accoo Residential Code nd referenced sta rd Industry Piggyb menection to base ified building desig Standard	een reduc for great flat roof li tho ther lini- titom choro- oc. I for a 10.1 t with any version ed for a liva as where will fit betworks. on (by oth standing 1 ordance we e sectionss andard AN boack Trus truss as a gner.	ed to accour er of min rool oad of 20.0 p re loads. d bearing. D psf bottom other live loa e load of 20.1 a rectangle veen the bott ers) of truss i 00 lb uplift ai ith the 2015 i R502.11.1 a ISI/TPI 1. s Connection applicable, or	nt for f live sf on ads. Opsf om to t and				SE 041	AL 860 VELERIT

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VIN VELIN

March 21,2023

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	VB1	Valley	1	1	T30100036 Job Reference (optional)

4x6 =3

9-2-2

9-2-2

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Scale = 1:53.4 Loading

TCLL (roof)

TCDL

BCLL

BCDL

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

WEBS

NOTES

1)

2)

3)

TOP CHORD

BOT CHORD

this design.

REACTIONS (size)

bracing.

Max Horiz

Max Uplift

Max Grav

Tension

Snow (Ps/Pf)

Run: 8.63 S. Nov 19 2022 Print: 8.630 S.Nov 19 2022 MiTek Industries. Inc. Mon Mar 20 15:12:04 ID:tMNRHLTgNcfhemWi22JFPrzaKLI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

18-0-1

8-10-0

18-4-3

0-4-2

818 Soundside Road Edenton, NC 27932

Page: 1

2x4 II 2x4 I 2 4 7-8-0 7-4 12 10 Г 5 ò 9 6 8 7 2x4 II 3x4 2x4 II 2x4 II 3x4、 3x4 =18-4-3 Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) in (loc) 20.0 Plate Grip DOL 1.00 TC 0.33 Vert(LL) n/a 999 MT20 244/190 n/a BC 10 1/20 0 Lumber DOL 1 15 0.23 Vert(TL) n/a n/a 999 10.0 Rep Stress Incr YES WB 0.39 Horiz(TL) 0.01 5 n/a n/a 0.0 Code IRC2015/TPI2014 Matrix-MS Weight: 83 lb FT = 20%10.0 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 4) DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof 2x4 SP No.2 snow); Ps=10.1 psf (roof snow: Lumber DOL=1.15 Plate 2x4 SP No.2 2x4 SP No.3 DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface Roof design snow load has been reduced to account for 5) Structural wood sheathing directly applied or slope. 10-0-0 oc purlins. Gable requires continuous bottom chord bearing. 6) Rigid ceiling directly applied or 6-0-0 oc 7) Gable studs spaced at 4-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom 1=18-4-3, 5=18-4-3, 6=18-4-3, chord live load nonconcurrent with any other live loads. 7=18-4-3, 9=18-4-3 9) \* This truss has been designed for a live load of 20.0psf 1=-145 (LC 10) on the bottom chord in all areas where a rectangle 1=-15 (LC 10), 6=-144 (LC 15), 3-06-00 tall by 2-00-00 wide will fit between the bottom 9=-146 (LC 14) chord and any other members, with BCDL = 10.0psf. 1=103 (LC 26), 5=100 (LC 30), 10) Provide mechanical connection (by others) of truss to 6=515 (LC 26), 7=525 (LC 25), bearing plate capable of withstanding 15 lb uplift at joint 9=518 (LC 25) 1, 146 lb uplift at joint 9 and 144 lb uplift at joint 6. (Ib) - Maximum Compression/Maximum 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and 1-2=-131/282, 2-3=-5/207, 3-4=0/207, R802.10.2 and referenced standard ANSI/TPI 1. 4-5=-96/249 LOAD CASE(S) Standard 1-9=-190/128, 7-9=-190/128, 6-7=-190/128, 5-6=-190/128 The American Ame American Amer 3-7=-377/0. 2-9=-325/186. 4-6=-324/185 20 Unbalanced roof live loads have been considered for Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. SEAL II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right 041860 exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33 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. March 21,2023

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	VB2	Valley	1	1	T30100037 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:04 ID:LqSE2Vgy78w7oXuA5qeT8ezaKL0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



13-6-10

0		4 44 0	
Scale	=	1:41.9	

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	10	).1/20.0	Lumber DOL	1.15		BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr	YES		WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCLL		0.0*	Code	IRC20	15/TPI2014	Matrix-MS								
BCDL		10.0											Weight: 58 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS	2x4 SP No 2x4 SP No 2x4 SP No	0.2 0.2 0.3		2	<ul> <li>FCLL: ASC DOL=1.15   snow); Ps= DOL=1.00)</li> </ul>	E 7-10; Pr=20.0 Plate DOL=1.00) 10.1 psf (roof sno ; Category II; Exp	osf (roof liv Pf=20.0 p w: Lumber B; Fully E	ve load: Lumb sf (flat roof r DOL=1.15 F xp.; Ct=1.10;	oer Plate					
BRACING					Unobstructe	ed slippery surfac	e							
TOP CHORD	Structural 6-0-0 oc p	wood shea ourlins.	athing directly applie	ed or <sup>g</sup>	<ol> <li>Roof design slope.</li> </ol>	n snow load has l	been reduc	ed to accoun	nt for					
BOT CHORD	Rigid ceili bracing.	ng directly	applied or 6-0-0 oc	6	<ul> <li>Gable requi</li> <li>Gable stude</li> </ul>	ires continuous b s spaced at 4-0-0	ottom chor	d bearing.						
REACTIONS	(size) Max Horiz Max Uplift Max Grav	1=13-6-10 7=13-6-10 1=-106 (L 1=-18 (LC 8=-107 (L 1=106 (LC (LC 26), 7 25)	0, 5=13-6-10, 6=13-6 ), 8=13-6-10 C 10) : 10), 6=-104 (LC 15 C 14) C 26), 5=88 (LC 2), 6 =271 (LC 2), 8=336	5-10, 5 5 5=333 (LC 1	<ul> <li>a) This truss on the bottom</li> <li>b) * This truss on the bottom</li> <li>chord and a</li> <li>chord and a</li> <li>chord eme</li> <li>bearing pla</li> <li>1 07 h un</li> </ul>	has been designe bad nonconcurrer has been design om chord in all ar by 2-00-00 wide any other membe chanical connect te capable of with biff at joint 8 and	o for a 10.0 nt with any led for a liv eas where will fit betw rs. ion (by oth istanding 1	or per bottom other live load re load of 20.1 a rectangle veen the bottivers) of truss to 18 lb uplift at j ft at joint 6	ads. Opsf om to joint					
FORCES	(lb) - Maxi Tension	mum Com	pression/Maximum	1	1, 107 15 up 11) This truss is Internationa	s designed in acc	ordance w	ith the 2015	and					
TOP CHORD	1-2=-131/ 4-5=-107/	100, 2-3=- <sup>-</sup> 71	117/97, 3-4=-108/89	,	R802.10.2	and referenced s	tandard AN	NSI/TPI 1.						
BOT CHORD	1-8=-42/1	02, 7-8=-42	2/74, 6-7=-42/74,	L	LUAD CASE(S	) Standard								
WEDO	5-6=-42/8	1												A SULL
NOTES	3-7=-190/	0, 2-8=-250	0/100, 4-0=-254/149										"ATHA	RO
NULES													an old	dier 1

- Unbalanced roof live loads have been considered for this design.
   Wind: ASCE 7-10; Vult=115mph (3-second gust)
- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.

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March 21,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	VB3	Valley	1	1	T30100038 Job Reference (optional)

Run; 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:04 ID:\_b7wRzP9JO8F98DxpDFJF?zaKLM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



3



8-9-0

Scale = 1:31.7

Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL	(psf) 20.0 10.1/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.26 0.23 0.13	DEFL 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: 33 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 8-9-0 oc purlins. Rigid ceiling directly bracing. (size) 1=8-9-0, 3 Max Horiz 1=-67 (LC Max Uplift 1=-27 (LC Max Grav 1=61 (LC (LC 2) (lb) - Maximum Corr Tension 1-2=-71/275, 2-3=-7 1-4=-213/112, 3-4=- 2-4=-485/129	eathing directly applied / applied or 6-0-0 oc 3=8-9-0, 4=8-9-0 C 10) C 30), 3=-27 (LC 29), C 14) : 29), 3=61 (LC 30), 4= npression/Maximum /1/275 -213/112	4) I or 5) 6) 7) 8) 9) =655 10 11	TCLL: ASCE DOL=1.15 P snow); Ps=1 DOL=1.00); Unobstructe Roof design slope. Gable requir Gable studs This truss ha chord live loa * This truss ha on the bottoo 3-06-00 tall t chord and ar Provide mec bearing plate 1, 27 lb upliff ) This truss is International R802.10.2 a DAD CASE(S)	57-10; Pr=20.0 ps late DOL=1.00); F 0.1 psf (roof snow Category II; Exp E d slippery surface es continuous bot spaced at 4-0-0 c is been designed ad nonconcurrent has been designed ad nonconcurrent hanical connectio e capable of withs a t joint 3 and 55 designed in accon Residential Code nd referenced sta Standard	of (roof liv f=20.0 p y: Lumbe 3; Fully E een reduc tom chor c. for a 10. with any d for a liv as where rill fit betv 5. Ib uplift a rdance w s sections ndard AN	re load: Lumb sf (flat roof r DOL=1.15 F xp.; Ct=1.10; red to accour d bearing. 0 psf bottom other live loa re load of 20.1 a rectangle veen the bott ers) of truss I r7 lb uplift at j tt joint 4. ith the 2015 s R502.11.1 <i>a</i> JSI/TPI 1.	Plate Plate It for Ids. Dpsf com to oint					
<ol> <li>Unbalance</li> </ol>	ed roof live loads have	been considered for											1117.

this design.

Wind: ASCE 7-10; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

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.



March 21,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-1944 A w/ 3 CAR GARAGE
3466725	VB4	Valley	1	1	T30100039 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Mar 20 15:12:04 ID:D3eumEJ8Bx8OBvcPLX5RwJzaKLU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:24.7

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

Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL	(psf) 20.0 10.1/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015	/TPI2014	CSI TC BC WB Matrix-MP	0.11 0.10 0.00	DEFL 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: 12 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Structural wood shea 3-11-6 oc purlins. Rigid ceiling directly bracing. (size) 1=3-11-6, Max Horiz 1=29 (LC Max Uplift 1=-2 (LC 1 Max Gray 1=158 (LC	athing directly applied applied or 10-0-0 oc 3=3-11-6 11) 14), 3=-2 (LC 15) 2), 3=158 (LC 2)	6) 7) 8) d or 9) 10)	Gable require Gable studs a This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Provide mech bearing plate and 2 lb uplif This truss is o	es continuous botto spaced at 4-0-0 oc s been designed fi d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y other members. nanical connection capable of withsta t at joint 3. designed in accord	or a 10.0 or a 10.0 vith any for a liv s where I fit betw (by oth anding 2 dance wi	d bearing. ) psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss to lb uplift at joi th the 2015 DECO 14 5	ds. )psf om nt 1					
FORCES	(lb) - Maximum Com	pression/Maximum		R802.10.2 ar	Residential Code s	sections dard AN	R502.11.1 a ISI/TPI 1.	nd					
TOP CHORD BOT CHORD	1-2=-212/26, 2-3=-21 1-3=-13/159	12/26	LO	AD CASE(S)	Standard								
<ol> <li>Unbalancethis design</li> <li>Unbalancethis design</li> <li>Wind: ASC Vasd=91m</li> <li>Exp 8; E</li> <li>and C-C Exexposed ; exposed ; emembers a Lumber DC</li> <li>Truss desisionly. For ssee Standa or consult of DCL=1.15 snow); Ps= DOL=1.00)</li> <li>Unobstruct</li> <li>Roof desig slope.</li> </ol>	d roof live loads have E 7-10; Vult=115mph ph; TCDL=6.0psf; BCI inclosed; MWFRS (en- kterior (2) zone; cantile end vertical left and rig and forces & MWFRS f DL=1.60 plate grip DOI igned for wind loads in tuds exposed to wind ard Industry Gable Enc qualified building desig E 7-10; Pr=20.0 psf (r Plate DOL=1.00); Pf=: 10.1 psf (roof snow: L ; Category II; Exp B; F ed slippery surface n snow load has been	(3-second gust) DL=6.0psf; h=30ft; C: velope) exterior zone ever left and right hft exposed;C-C for for reactions shown; L=1.33 the plane of the trus (normal to the face), d Details as applicabl gner as per ANSI/TPI coof live load: Lumbe 20.0 psf (flat roof .umber DOL=1.15 Pla Fully Exp.; Ct=1.10; reduced to account i	at. s e, 1. r ate								and the second s	SE/ 0418	AL 360 VELETINATION



