

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 2400622-09192 Colston 3 car Bonus Full Frnt Prch RCP

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I63985408 thru I63985444

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



March 4,2024

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	A1E	GABLE	1	1	Job Reference (optional)	163985408

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:15 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70.5

Plate Offsets (X, Y): [5:0-4-4,0-1-12], [6:0-4-4,0-1-12], [12:0-4-12,Edge], [13:0-4-12,Edge]

TCLL (roof) TCDL BCLL BCDL	(03) 20.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr Code	1.15 1.15 NO IRC2015/	TPI2014	TC BC WB Matrix-MS	0.69 0.72 0.33	Vert(LL) Vert(CT) Horz(CT) Attic	-0.22 -0.32 0.00 -0.18	(100) 12-13 12-13 11 12-13	>999 >752 n/a >809	240 180 n/a 360	MT20 Weight: 206 lb	244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD	2x6 SP No.2 *Excep 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep No.2, 14-2,11-9,4-7.2 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. 1 Row at midpt (size) 11=0-5-8, Max Horiz 14=315 (L Max Grav 11=1368 ((lb) - Maximum Com Tension 1-2=0/50, 2-3=-1034 4-5=-353/268, 5-6=-1	t* 5-6:2x4 SP No.2 t* 12-13:2x10 SP DS t* 3-13,8-12:2x6 SP 2x4 SP No.2 athing directly applied cept end verticals. applied or 6-0-0 oc 4-7 14=0-5-8 .C 9) (LC 2), 14=1368 (LC pression/Maximum /44, 3-4=-715/170, 169/288, 6-7=-353/20	3) S 4) 5) 6) dor 7) 8) 9) 2) 2) 10) 58.	Truss design only. For stu see Standarco or consult qu Provide adeq All plates are Truss to be fi braced again Gable studs s This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Ceiling dead 15-16, 7-16; (s).3-13, 8-12 Bottom chorco	ed for wind loads ds exposed to wini I industry Gable Er alified building des juate drainage to p 2x4 MT20 unless ully sheathed from st lateral movemer spaced at 2-0-0 oc s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y other members. load (5.0 psf) on m Wall dead load (10 c) live load (40.0 psi and 5.0 psf) and	in the p d (norm nd Deta signer as revent i otherwi one fac nt (i.e. d c tor a 10.0 vith any for a liv s where l fit betw nemberi 0.0psf) of f) and a	ane of the tru al to the face ils as applica s per ANSI/TI water ponding se indicated. e or securely iagonal web) 0 psf bottom other live loa e load of 20.0 a rectangle ween the bottw (s). 3-4, 7-8, 4 on member dditional bottw	uss), ble, PI 1. g. ds. Dpsf 4-15, 0m						
BOT CHORD WEBS NOTES	7-8=-715/170, 8-9=- 2-14=-1371/0, 9-11= 11-14=-315/706 3-13=-131/451, 8-12 2-13=-16/874, 9-12= 15-16=-855/125, 7-1 5-15=-96/204, 6-16=	1034/44, 9-10=0/50, -1371/0 -=-131/451, -=-17/875, 4-15=-865/ 6=-865/121, -=96/204	12) 13) 121, 14) LOA	All bearings a This truss is o International R802.10.2 ar Attic room ch AD CASE(S)	are assumed to be designed in accord Residential Code s and referenced stan ecked for L/360 de Standard	User D lance w sections dard AN eflection	efined . ith the 2015 I R502.11.1 a ISI/TPI 1.	Ind		4		OR OFESS	ROUT	2
 Unbalance this designed Wind: AS Vasd=10 II; Exp B; and C-C exposed members Lumber I 	ed roof live loads have n. CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B(Enclosed; MWFRS (en Exterior (2) zone; cantili ; end vertical left and rig and forces & MWFRS)OL=1.60 plate grip DO	been considered for (3-second gust) CDL=6.0psf; h=30ff; (velope) exterior zone ever left and right ght exposed;C-C for for reactions shown; L=1.60	Cat.							THUNKS		SEAI 03632	EREALIN	A.M. Martin



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	A2	ROOF TRUSS	3	1	Job Reference (optional)	163985409



Scale = 1:74

Plate Offsets (X, Y): [5:0-4-4,0-1-12], [6:0-4-4,0-1-12], [12:0-4-12,Edge], [13:0-4-12,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015	5/TPI2014	CSI TC BC WB Matrix-MS	0.69 0.72 0.19	DEFL Vert(LL) Vert(CT) Horz(CT) Attic	in -0.22 -0.32 0.00 -0.18	(loc) 12-13 12-13 11 12-13	l/defl >999 >752 n/a >809	L/d 240 180 n/a 360	PLATES MT20 Weight: 188 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x6 SP No.2 *Excep 2x4 SP No.2 *Excep 2x4 SP No.2 *Excep No.2, 5-15,6-16:2x4 Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. 1 Row at midpt (size) 11=0-5-8, Max Horiz 14=315 (L Max Grav 11=1368 ((lb) - Maximum Com Tension 1-2=0/50, 2-3=-1034 4-5=-353/268, 5-6=- 7-8=-715/170, 8-9=- 2-14=-1371/0, 9-11= 11-14=-315/706 3-13=-131/451, 8-12 2-13=-16/875, 9-12= 15-16=-855/125, 7-1	t* 5-6:2x4 SP No.2 t* 12-13:2x10 SP DS t* 3-13,8-12:2x6 SP SP No.3 athing directly applie cept end verticals. applied or 6-0-0 oc 4-7 14=0-5-8 .C 9) (LC 2), 14=1368 (LC pression/Maximum /44, 3-4=-715/170, 169/288, 6-7=-353/2/ 1034/44, 9-10=0/50, -1371/0 t=-131/451, -17/876, 4-15=-865/ 6=-865/121, -96/204	5) SS 6) d or 7) 8) 9) 10] 2) 11] LO 68, 121,	This truss has chord live loa * This truss h on the botton 3-06-00 tall b chord and an Ceiling dead 15-16, 7-16; (s).3-13, 8-12 Bottom chord chord dead lo All bearings a) This truss is o International R802.10.2 ar) Attic room ch	s been designed fo d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y other members. load (5.0 psf) on m Wall dead load (10 live load (40.0 ps bad (5.0 psf) applie are assumed to be designed in accord Residential Code s d referenced stan ecked for L/360 de Standard	or a 10.0 vith any for a liv, s where I fit betw hember(0.0psf) of f) and at d only t User Do lance wis sections dard AN effection) psf bottom other live load e load of 20.0 a rectangle veen the botto s). 3-4, 7-8, 4 on member dditional botto o room. 12-13 efined . th the 2015 R502.11.1 a SI/TPI 1.	ds.)psf 				TH CA	ROLA	
 NOTES Unbalanced this design. Wind: ASC Vasd=103n II; Exp B; E and C-C Ex exposed; e members a Lumber DG Provide add All plates a 	d roof live loads have E 7-10; Vult=130mph mph; TCDL=6.0psf; BG inclosed; MWFRS (en xterior (2) zone; cantile end vertical left and rig and forces & MWFRS i DL=1.60 plate grip DO equate drainage to pro- ire 2x4 MT20 unless o	been considered for (3-second gust) CDL=6.0psf; h=30ft; ivelope) exterior zone ever left and right ght exposed;C-C for for reactions shown; L=1.60 event water ponding. itherwise indicated.	Cat. e							Manutal March		SEAI 03632	ER KIN	Community .

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TRENGINE BY A MITEK Affiliate

March 4,2024

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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	A3	ROOF TRUSS	6	1	Job Reference (optional)	163985410

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:17 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74

Plate Offsets (X, Y): [4:0-4-4,0-1-12], [5:0-4-4,0-1-12], [10:0-4-12,Edge], [11:0-4-12,Edge]

Loa	ading	(psf		Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCL	LL (roof)	20.0		Plate Grip DOL	1.15		тс	0.69	Vert(LL)	-0.22	10-11	>999	240	MT20	244/190	
ТС	DL	10.0		Lumber DOL	1.15		BC	0.71	Vert(CT)	-0.32	10-11	>750	180			
BCI	LL	0.0)*	Rep Stress Incr	NO		WB	0.33	Horz(CT)	0.00	9	n/a	n/a			
BCI	DL	10.0		Code	IRC20	15/TPI2014	Matrix-MS		Attic	-0.18	10-11	>809	360	Weight: 182 lb	FT = 20%	
TOP BO BO BO BO BO BO BO BO BO BO BO BO BO	DL DL MBER P CHORD T CHORD BS ACING P CHORD T CHORD BS ACTIONS RCES P CHORD T CHORD BS TES Unbalance this design Wind: ASC Vasd=103/ II; Exp B; E and C-C E exposed ; members a Lumber DC	10.0 0.1 10.0 10.0 10.0 2x6 SP No.2 *Ex 2x4 SP No.2 *Ex 2x4 SP No.3 *Ex No.2, 12-1,9-8,3- Structural wood 6-0-0 oc purlins, Rigid ceiling dire bracing. 1 Row at midpt (size) 9=0-5- Max Horiz 12=28 Max Grav 9=130 (lb) - Maximum C Tension 1-2=-1035/7, 2-3 4-5=-162/292, 5- 7-8=-1035/7, 1-1 9-12=-285/697 2-11=-136/448, 7 8-10=-22/863, 3- 13-14=-861/100, 4-13=-95/201, 5- ed roof live loads have CE 7-10; Vult=130r mph; TCDL=6.0ps Enclosed; MWFRS Exterior (2) zone; ca end vertical left an and forces & MWF) *)) *)) *)) *)) *)) *)) *)) *	Lumber DOL Rep Stress Incr Code * 4-5:2x4 SP No.2 * 10-11:2x10 SP DS * 2-11,7-10:2x6 SP 4 SP No.2 athing directly applie tept end verticals. applied or 6-0-0 oc 3-6 2=0-5-8 C 7) C 2), 12=1309 (LC 2 pression/Maximum 18/158, 3-4=-350/26 350/269, 6-7=-718/15 322/0, 8-9=-1322/0 =-136/448, 1-11=-21 871/96, 4=-871/96, -95/201 been considered for (3-second gust) CDL=6.0psf; h=30ft; velope) exterior zone ver left and right th exposed;C-C for for reactions shown; L=1.60	1.15 NO IRC20 (SS d or { 2) 1 9, 58, /862, /862, Cat. e	 15/TPI2014 * This truss I on the bottor 3-06-00 tall t chord and ar Ceiling dead 13-14, 6-14; (s).2-11, 7-1 Bottom chore chord dead I All bearings This truss is International R802.10.2 a Attic room ch LOAD CASE(S) 	BC WB Matrix-MS has been designed in chord in all areas by 2-00-00 wide wil yo other members. load (5.0 psf) on m Wall dead load (10 0 d live load (40.0 ps oad (5.0 psf) applie are assumed to be designed in accord Residential Code s nd referenced stan becked for L/360 de Standard	0.71 0.33 for a liv s where I fit betw hember(0.0psf) o f) and a ed only t User D lance w sections dard AN fflection	Vert(CT) Horz(CT) Attic e load of 20.0 a rectangle veen the bottc (s). 2-3, 6-7, 3 on member dditional bottc o room. 10-1: efined . ith the 2015 : R502.11.1 a ISI/TPI 1.	-0.32 0.00 -0.18 0psf om 3-13, 0m 1 nd	10-11 9 10-11	>750 n/a >809	180 n/a 360	Weight: 182 lb	FT = 20%	· Monunna
3) 4)	Provide ad	dequate drainage to	pre	event water ponding.	•								12	8 GIN	ER.N	
+) 5)	This trues	has been designed	ss Ul I for	a 10.0 psf bottom										AG	ILB'	
5)	chord live	load nonconcurren	t wit	h any other live load	ls.									11111111	in in its	

chord live load nonconcurrent with any other live loads.

818 Soundside Road Edenton, NC 27932

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minin March 4,2024

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	A3G	ROOF TRUSS	1	2	Job Reference (optional)	163985411



Scale = 1:74

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf 20.0 10.0 0.0 10.0)))*)	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	4-0-0 1.15 1.15 NO IRC2	015/	TPI2014	CSI TC BC WB Matrix-MS	0.69 0.73 0.33	DEFL Vert(LL) Vert(CT) Horz(CT) Attic	in -0.22 -0.32 0.00 -0.18	(loc) 11-12 11-12 10 11-12	l/defl >999 >751 n/a >809	L/d 240 180 n/a 360	PLATES MT20 Weight: 370 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x6 SP No.2 *Ex 2x4 SP No.2 *Ex 2x4 SP No.3 *Ex No.2, 13-2,10-9,4 2-0-0 oc purlins (verticals (Switched from se Bioid ceiling dire	cept cept cept 1-7:2 6-0- heet	* 5-6:2x4 SP No.2 * 11-12:2x10 SP DS * 3-12,8-11:2x6 SP tx4 SP No.2 0 max.), except enc ted: Spacing > 2-8-0 applied or 6-0-0 oc	:S 1).	2) 4) 1 2) 1 2) 1 2) 1 2) 1 2) 1 2) 1 2) 1 2	All loads are except if note CASE(S) sec provided to d unless otherv Unbalanced i this design. Wind: ASCE Vasd=103mp II; Exp B; End	considered equally ed as front (F) or ba ttion. Ply to ply con istribute only loads vise indicated. roof live loads have 7-10; Vult=130mpl bh; TCDL=6.0psf; E closed; MWFRS (e	applie ack (B) nection noted been been (3-sec CDL=6 nvelope	d to all plies, face in the LC s have been as (F) or (B), considered for cond gust) .0psf; h=30ft; e) exterior zon	OAD Cat.					
JOINTS	bracing. 1 Brace at Jt(s):	5,			:	and C-C Exte exposed ; en members and	erior (2) zone; canti d vertical left and r d forces & MWFRS	lever le ight exp for rea	ft and right osed;C-C for ctions shown	:					
REACTIONS	6, 2, 9, 14, 15 (size) 10=0-3 Max Horiz 13=60 Max Gray 10=26	5-8, ⁻ 9 (L(14 (l	13=0-5-8 C 7) LC 2), 13=2740 (LC	2)	5) 6) /	Lumber DOL Provide adeq All plates are	=1.60 plate grip D0 juate drainage to p 2x4 MT20 unless	DL=1.60 revent v otherwi) water ponding se indicated.	, .					
FORCES	(lb) - Maximum C	omp	pression/Maximum	_,	/)	chord live loa	s been designed fo id nonconcurrent w	ith any	other live load	ds.					
TOP CHORD	1-2=0/101, 2-3=- 4-5=-703/533, 5- 7-8=-1432/333, 8 9-10=-2639/0	2074 6=-3 3-9=-	4/64, 3-4=-1434/323 35/579, 6-7=-703/54 2064/31, 2-13=-274	, 41, 6/0,	8)	* This truss h on the bottom 3-06-00 tall b chord and an	as been designed n chord in all areas y 2-00-00 wide will y other members.	for a liv where fit betv	e load of 20.0 a rectangle veen the botto	ipsf om					
BOT CHORD WEBS	10-13=-610/139' 3-12=-261/902, & 2-12=-24/1754, § 4-14=-1736/214, 7-15=-1735/219, 6-15=-196/402	8-11= 9-11= 14-1 5-14	=-272/895, =-52/1721, 15=-1716/225, 4=-186/407,		9) 10) 11) <i> </i> 12)	Celling dead 14-15, 7-15; (s).3-12, 8-11 Bottom chord chord dead lo All bearings a This truss is o	Wall dead load (10 Wall dead load (10 I live load (40.0 pst) bad (5.0 psf) applie are assumed to be designed in accord).0psf)) and a d only f User D ance w	s). 3-4, 7-8, 4 on member dditional botto o room. 11-12 efined . ith the 2015	14, om 2		4	- AL	OR SEESE	ROIN
NOTES 1) 2-ply truss (0.148"x3" Top chord staggered Bottom ch 0-9-0 oc, 2 Web conn 0-9-0 oc, 2	to be connected to nails as follows: s connected as foll at 0-9-0 oc, 2x4 - ords connected as 2x10 - 2 rows stagg ected as follows: 2 2x4 - 1 row at 0-9-0	ogeth ows: I row follo jerec x6 - : oc.	ner with 10d 2x6 - 2 rows v at 0-9-0 oc. ws: 2x4 - 1 row at 1 at 0-9-0 oc. 2 rows staggered at		13) (14) /	International R802.10.2 ar Graphical pur or the orienta bottom chord Attic room ch D CASE(S)	Residential Code s ad referenced stand rlin representation tion of the purlin al ecked for L/360 de Standard	dard AN does no ong the	ISJ02.11.1 a ISI/TPI 1. ot depict the s top and/or	nd ize		THERE'S		SEA 03632	EP. Kunning

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March 4,2024

Page: 1

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	A4	ROOF TRUSS	1	1	Job Reference (optional)	163985412

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:18 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

 $\begin{smallmatrix} 0 - 3 - 8 & _{3} - 9 - 0 & ^{4} - 0 - 8 \\ H & H & H \\ 0 - 3 - 8 & 3 - 5 - 8 & _{0} - 3 - 8^2 - 11 - 0 \end{smallmatrix} |$



Scale = 1:76.4

Plate Offsets (X, Y): [6:Edge,0-4-12]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.52 0.02 0.53	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc 4-5 4-5) l/defl 5 >999 5 >999 5 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 121 It	GRIP 244/190 D FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x6 SP No.2 2x10 SP DSS 2x4 SP No.2 *Excep SP No.3 Structural wood she 4-0-8 oc purlins, ex Except: 6-0-0 oc bracing: 5- Rigid ceiling directly bracing.	ot* 7-8,9-10,10-3,9-3: eathing directly applie cept end verticals. 8, 8-9 r applied or 10-0-0 oc	3 2x4 ed or 5 6 7 2 8	 This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and ar All bearings a Refer to gird Provide mect bearing plate 6 and 628 lb This truss is 	s been designed for ad nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will by other members. are assumed to be er(s) for truss to tru- hanical connection a capable of withsta uplift at joint 5. designed in accord	r a 10.0 ith any for a liv where fit betw User D ss conr (by oth nding 6 ance w	2) psf bottom other live load e load of 20.0 a rectangle veen the botto efined . nections. ers) of truss to 55 lb uplift at ith the 2015	ds. Ipsf om o joint	5) 	Uniform Lo Vert: 1-: Horz: 1- Dead + 0.6 Increase= Uniform Lo Vert: 1-: (F) Horz: 1- Dead + 0.6 Increase= Uniform Lo	bads (I 2=49, 2 6=-40, 6 C-C 1.60, F bads (I 2=-35, 6=36, 6 MWF 1.60, F bads (I	b/ft) 2-3=49, 5-6=-12 , 5-9=40 Wind (Neg. Inte Plate Increase=1 b/ft) 2-3=-35, 5-6=-2 5-9=-36 :RS Wind (Pos. Plate Increase=1 b/ft)	2, 4-5=-30, 9-10=-10 rnal) Case 1: Lumbe .60 20, 4-5=-38, 9-10=-1 Internal) Left: Lumb .60	∍(F) ∍r IO ⊳er
WEBS JOINTS REACTIONS	1 Row at midpt 1 Brace at Jt(s): 8, 9, 10 (size) 4= Mecha Max Horiz 6=-420 (L Max Uplift 5=-628 (L Max Grav 4=136 (L 6=578 (L 6=578 (L	1-6 anical, 5=0-5-8, 6=0-5 C 8) C 7), 6=-655 (LC 8) C 2), 5=938 (LC 18), C 7)	9 5-8 1 1	International R802.10.2 ar Load case(s) 15, 16, 17, 1 Building desi are correct fc 0) Attic room ch 1) In the LOAD	Residential Code s and referenced stand 1, 2, 3, 4, 5, 6, 7, 8 8, 19, 20, 21 has/ha gner must review lo or the intended use necked for L/360 de CASE(S) section, 1	ections dard AN 3, 9, 10 ave bee bads to of this flection oads ap	R502.11.1 at ISI/TPI 1. , 11, 12, 13, 1 en modified. verify that the truss.	nd 4, - ey ace	7) 	Vert: 1-2 Horz: 1- Dead + 0.6 Increase= Uniform Lo Vert: 1-2 Horz: 1- Dead + 0.6	2=27, 2 6=16, 6 MWF 1.60, F Dads (I 2=27, 2 6=-20, 6 MWF	2-3=27, 5-6=-12 5-9=20 Pate Increase=1 b/ft) 2-3=27, 5-6=-12 5-9=-16 RS Wind (Neg.	2, 4-5=-30, 9-10=-10 Internal) Right: Lurr .60 2, 4-5=-30, 9-10=-10 Internal) Left: Lumt	(F) nber) (F) ber
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Con Tension 6-7=-116/138, 1-7=- 2-3=-26/40, 5-8=-71 2-9=-340/395 5-6=-94/103, 4-5=0/	npression/Maximum 75/75, 1-2=-84/92, 4/711, 8-9=-402/415, 70	L 1	of the truss a OAD CASE(S)) Dead + Roo Plate Increa Uniform Loa Vert: 1-2:	rre noted as front (F Standard of Live (balanced): ase=1.15 ads (Ib/ft) =-60, 2-3=-60, 5-6=	⁻) or ba Lumber -20, 4-{	ck (B). Increase=1.1 5=-50, 9-10=-	5, 10) 	Increase= Uniform Lo	1.60, F bads (I	orte Increase=1 b/ft)	AROL	
WEBS NOTES 1) Wind: ASG Vasd=103 II; Exp B; and C-C E exposed ; members Lumber D 2) Provide ad	7-8=-401/427, 6-8=: 9-10=0/0, 3-10=0/19 CE 7-10; Vult=130mph mph; TCDL=6.0psf; B Enclosed; MWFRS (er Exterior (2) zone; canti end vertical left and ri and forces & MWFRS OL=1.60 plate grip DC dequate drainage to pr	599/653, 2-7=-222/2 5, 3-9=-67/43 (3-second gust) CDL=6.0psf; h=30ft; nvelope) exterior zom lever left and right ght exposed;C-C for for reactions shown; DL=1.60 revent water ponding.	19, 2 Cat. e 3	 (r) Dead + 0.7! Lumber Inc: Uniform Loa Vert: 1-2: (F) Dead + Unii Increase=1. Uniform Loa Vert: 1-2: (F) Dead + 0.6 Increase=1. 	5 Roof Live (balance rease=1.15, Plate I ads (lb/ft) =-50, 2-3=-50, 5-6= nhabitable Attic Wit .25, Plate Increases ads (lb/ft) =-20, 2-3=-20, 5-6= C-C Wind (Pos. Int .60, Plate Increases	ed) + 0 ncrease -20, 4-{ hout St =1.25 -40, 4-{ ernal) (=1.60	.75 Attic Floor ∋=1.15 5=-109, 9-10= torage: Lumbe 5=-70, 9-10=- Case 1: Lumb	r: 10 er 10 er					AL 322 VEER GILBER Tron 4,2024	Vannun 111



Job		Truss	Truss Type		Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	100005110
240	0622-09192	A4	ROOF TRUSS		1	1	Job Reference (optional)	163985412
84 C	omponents (Dunn, NC), Dun	in, NC - 28334,		Run: 8.73 S Feb 22 2	2024 Print: 8.	730 S Feb 22	2 2024 MiTek Industries, Inc. Fri Mar 01 12:52:18	Page: 2
9)	Vert: 1-2=8, 2-3=8, 5 Horz: 1-6=27, 5-9=9 Dead + 0.6 MWERS Wi	-6=-20, 4-5=-38, 9-10=-10 (F)		10.40_:]0011004100	S: CAGVEYDT			
~,	Lumber Increase=1.60, Uniform Loads (lb/ft) Vert: 1-2=8, 2-3=8, 5	Plate Increase=1.60 -6=-20, 4-5=-38, 9-10=-10 (F)						
10)	Horz: 1-6=-9, 5-9=-2 Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (lb/ft)	7 ind (Pos. Internal) 1st Parallel Plate Increase=1.60	:					
11)	Vert: 1-2=27, 2-3=27 Horz: 1-6=13, 5-9=19 Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (Ib/ft)	, 5-6=-12, 4-5=-30, 9-10=-10 9 ind (Pos. Internal) 2nd Paralle Plate Increase=1.60	(F) I:					
12)	Vert: 1-2=27, 2-3=27 Horz: 1-6=-19, 5-9=- Dead + 0.6 MWFRS Wi Lumber Increase=1.60,	, 5-6=-12, 4-5=-30, 9-10=-10 13 ind (Pos. Internal) 3rd Parallel Plate Increase=1.60	(F) :					
13)	Uniform Loads (lb/ft) Vert: 1-2=27, 2-3=27 Horz: 1-6=13, 5-9=19 Dead + 0.6 MWFRS	, 5-6=-12, 4-5=-30, 9-10=-10) ind (Pos. Internal) 4th Parallel	(F) :					
	Lumber Increase=1.60, Uniform Loads (Ib/ft) Vert: 1-2=27, 2-3=27 Horz: 1-6=-19, 5-9=-	Plate Increase=1.60 , 5-6=-12, 4-5=-30, 9-10=-10 13	(F)					
14)	Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (lb/ft) Vert: 1-2=8, 2-3=8, 5	ind (Neg. Internal) 1st Parallel Plate Increase=1.60 -6=-20, 4-5=-38, 9-10=-10 (F)	:					
15)	Horz: 1-6=24, 5-9=8 Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (Ib/ft)	ind (Neg. Internal) 2nd Paralle Plate Increase=1.60	i:					
16)	Vert: 1-2=8, 2-3=8, 5 Horz: 1-6=-8, 5-9=-24 Dead: Lumber Increase metal=0.90	-6=-20, 4-5=-38, 9-10=-10 (F) 4 ==0.90, Plate Increase=0.90 P	lt.					
17)	Uniform Loads (Ib/ft) Vert: 1-2=-20, 2-3=-2 Dead: Lumber Increase metal=0.90	20, 4-6=-20, 9-10=-10 (F) ==0.90, Plate Increase=0.90 P	lt.					
18)	Uniform Loads (lb/ft) Vert: 1-2=-20, 2-3=-2 (F) Dead ± 0.75 Roof Live	20, 5-6=-20, 4-5=-50, 9-10=-1()					
,	(0.6 MWFRS Wind (Neg Increase=1.60, Plate In Uniform Loads (Ib/ft) Vert: 1-2=-29 2-3=-2	g. Int) Left): Lumber crease=1.60)					
19)	(F) Horz: 1-6=20, 5-9=7 Dead + 0.75 Roof Live	(bal.) + 0.75 Attic Floor + 0.75						
	Increase=1.60, Plate In Uniform Loads (Ib/ft) Vert: 1-2=-29, 2-3=-2 (F)	g. ini) Rignt): Lumber crease=1.60 29, 5-6=-20, 4-5=-99, 9-10=-10)					
20)	Horz: 1-6=-7, 5-9=-20 Dead + 0.75 Roof Live (0.6 MWFRS Wind (Neg Increase=1.60, Plate In Uniform Loads (lb/ft)	0 (bal.) + 0.75 Attic Floor + 0.75 g. Int) 1st Parallel): Lumber crease=1.60						
21)	vert: 1-2=-29, 2-3=-2 (F) Horz: 1-6=18, 5-9=6 Dead + 0.75 Roof Live (0.6 MWFRS Wind (Ney Increase=1.60. Plate In	(bal.) + 0.75 Attic Floor + 0.75 g. Int) 2nd Parallel): Lumber crease=1.60)					

Uniform Loads (lb/ft)

Vert: 1-2=-29, 2-3=-29, 5-6=-20, 4-5=-99, 9-10=-10 (F) Horz: 1-6=-6, 5-9=-18



Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	A5	ROOF TRUSS	1	1	Job Reference (optional)	163985413

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:18 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:83.3

Plate Offsets (X, Y): [6:Edge,0-4-12]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.89 0.02 0.62	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 4-5 4-5 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 131 II	GRIP 244/190 b FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x6 SP No.2 2x10 SP DSS 2x4 SP No.2 *Excep SP No.3 Structural wood shea 4-0-8 oc purlins, exc Except: 6-0-0 oc bracing: 5-8	t* 7-8,9-10,10-3,9-3:2 athing directly appliec cept end verticals. 3, 8-9	3 4 2x4 d or 5 6 7	 This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Refer to girde Provide mech bearing plate 	s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members. are assumed to be er(s) for truss to tru- nanical connection capable of withsta	or a 10.0 rith any for a liv where l fit betv User D ss conr (by oth unding 6	D psf bottom other live load e load of 20.0 a rectangle veen the botto efined . nections. ers) of truss to 76 lb uplift at	ds. psf om p joint	(5) [1 1 3 6) [Jniform Lo Vert: 1-: Horz: 1- Dead + 0.1 ncrease= Jniform Lo Vert: 1-: (F) Horz: 1- Dead + 0.1	bads (I 2=40, 2 6=-34 6 C-C 1.60, F bads (I 2=-33, -6=31, 6 MWF	b/ft) 2-3=40, 5-6=-12 , 5-9=34 Wind (Neg. Inte Plate Increase=' b/ft) 2-3=-33, 5-6=-2 5-9=-31 FRS Wind (Pos.	2, 4-5=-30, 9-10=-10 (F) rnal) Case 1: Lumber 1.60 20, 4-5=-38, 9-10=-10 . Internal) Left: Lumber
BOT CHORD WEBS JOINTS	Rigid ceiling directly bracing. 1 Row at midpt 1 Brace at Jt(s): 8, 10	applied or 10-0-0 oc 1-6	8	6 and 599 lb This truss is o International R802.10.2 ar Load case(s)	uplift at joint 5. designed in accord Residential Code s id referenced stand 1, 2, 3, 4, 5, 6, 7, 5	ance w sections dard AN 8, 9, 10	ith the 2015 R502.11.1 a ISI/TPI 1. , 11, 12, 13, 1	nd 4, ·	 7) [ncrease= Jniform Lo Vert: 1- Horz: 1- Dead + 0.0	1.60, F bads (I 2=21, 2 -6=13, 6 MWF	Plate Increase= b/ft) 2-3=21, 5-6=-12 5-9=17 FRS Wind (Pos.	1.60 2, 4-5=-30, 9-10=-10 (F) . Internal) Right: Lumber
REACTIONS	(size) 4= Mecha Max Horiz 6=-393 (L Max Uplift 5=-599 (L Max Grav 4=136 (LC 6=587 (LC	nical, 5=0-5-8, 6=0-5- C 8) C 7), 6=-676 (LC 8) C 2), 5=974 (LC 18), C 7)	-8 1 1	15, 16, 17, 18 Building desi are correct fo 0) Attic room ch 1) In the LOAD	3, 19, 20, 21 has/ha gner must review lo r the intended use ecked for L/360 de CASE(S) section,	ave bee bads to of this flection loads a	en modified. verify that the truss. oplied to the fa	ey ace) I I 3) [ncrease= Jniform Lo Vert: 1-2 Horz: 1- Dead + 0.0	1.60, F bads (I 2=21, 2 -6=-17 6 MWF	Plate Increase=" b/ft) 2-3=21, 5-6=-12 , 5-9=-13 FRS Wind (Neg.	1.60 2, 4-5=-30, 9-10=-10 (F) . Internal) Left: Lumber
FORCES	(lb) - Maximum Com	pression/Maximum	L	of the truss a OAD CASE(S)	re noted as front (F Standard	-) or ba	ck (B).		-, - 	ncrease=	1.60, F	Plate Increase=	1.60
TOP CHORD	1 ension 6-7=-147/162, 1-7=-3 2-3=-22/35, 5-8=-750 2-9=-336/360 5-6=-93/101 4-5=0/0	83/73, 1-2=-81/88, 0/753, 8-9=-409/386, n	1) Dead + Roc Plate Increa Uniform Loa Vert: 1-2=	of Live (balanced): se=1.15 ads (lb/ft) =-60, 2-3=-60, 5-6=	Lumber =-20, 4-:	Increase=1.1	5, 10	,			OR EES	AROLAN SING
WEBS	7-8=-393/416, 6-8=- 9-10=0/0, 3-10=0/15	5 591/659, 2-7=-249/25 5, 3-9=-73/46	50, 2	(F) Dead + 0.75 Lumber Inci	5 Roof Live (balanc rease=1.15, Plate I	ed) + 0 ncrease	.75 Attic Floor e=1.15	r:		4	i	Al-	That
 Wind: ASC Vasd=95n II; Exp B; and C-C E exposed; members Lumber D Provide ac 	CE 7-10; Vult=120mph 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 dequate drainage to pro	(3-second gust) DL=6.0psf; h=30ft; Ca vvelope) exterior zone ever left and right ght exposed;C-C for for reactions shown; L=1.60 event water ponding.	at. 3 3	Uniform Loa Vert: 1-2= (F) Dead + Unii Increase=1. Uniform Loa Vert: 1-2= (F) Dead + 0.6 Increase=1.	ads (lb/ft) =-50, 2-3=-50, 5-6= habitable Attic Wi 25, Plate Increase ads (lb/ft) =-20, 2-3=-20, 5-6= C-C Wind (Pos. Int 60, Plate Increase	=-20, 4-: thout St =1.25 =-40, 4-: ternal) (=1.60	5=-109, 9-10= orage: Lumbe 5=-70, 9-10=- Case 1: Lumb	10 er 10 er			A A A A A A A A A A A A A A A A A A A	SE/ 0363	AL 322 VEER. AL

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 in the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job		Truss	Truss Type		Qtv	Plv	Colston 3 car Bonus Full Frnt Prch RCP	
0.400	000 00400					Ĺ		163985413
2400	622-09192	A5	ROOF TRUSS		1	1	Job Reference (optional)	
84 Com	Nort: 1 2 2 2 2 2 5	nn, NC - 28334,)	Run: 8.73 S Feb 22 2 ID:4C_?jOk7l8eo4Te	2024 Print: 8. 8?OXgvByb1	730 S Feb 2 PY-RfC?PsI	2 2024 MiTek Industries, Inc. Fri Mar 01 12:52:18 B70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 2
9) D L U	Horz: 1-6=23, 2-3=3, 5 Horz: 1-6=23, 5-9=8 Nead + 0.6 MWFRS W umber Increase=1.60, Iniform Loads (Ib/ft) Vert: 1-2=3, 2-3=3, 5	ind (Neg. Internal) Right: , Plate Increase=1.60)					
10) D L U	Dead + 0.6 MWFRS W umber Increase=1.60, Iniform Loads (lb/ft) Vert: 1-2=21, 2-3=21	3 ind (Pos. Internal) 1st Paralle , Plate Increase=1.60 I, 5-6=-12, 4-5=-30, 9-10=-10	l: (F)					
11) D L U	Horz: 1-6=11, 5-9=10 Dead + 0.6 MWFRS W umber Increase=1.60, Iniform Loads (lb/ft) Vert: 1-2=21, 2-3=21	6 ind (Pos. Internal) 2nd Paralle , Plate Increase=1.60 I, 5-6=-12, 4-5=-30, 9-10=-10	91: (F)					
12) D L U	Horz: 1-6=-16, 5-9=- bead + 0.6 MWFRS W umber Increase=1.60, Iniform Loads (lb/ft) Vert: 1-2=21, 2-3=21	11 ind (Pos. Internal) 3rd Paralle , Plate Increase=1.60 , 5-6=-12, 4-5=-30, 9-10=-10	l: (F)					
13) D Li U	Horz: 1-6=11, 5-9=10 Dead + 0.6 MWFRS W umber Increase=1.60, Iniform Loads (lb/ft)	6 ind (Pos. Internal) 4th Paralle , Plate Increase=1.60	l: (E)					
14) D L U	Horz: 1-6=-16, 5-9=- Dead + 0.6 MWFRS W umber Increase=1.60, Iniform Loads (lb/ft)	ind (Neg. Internal) 1st Paralle , Plate Increase=1.60	l:					
15) D Li U	Vert: 1-2=3, 2-3=3, 5 Horz: 1-6=21, 5-9=7 Dead + 0.6 MWFRS W umber Increase=1.60, Iniform Loads (lb/ft) Vert: 1-2=3, 2-3=3, 5	-6=-20, 4-5=-38, 9-10=-10 (F ind (Neg. Internal) 2nd Paralle , Plate Increase=1.60) el:)					
16) D m U	Horz: 1-6=-7, 5-9=-2 Pead: Lumber Increase netal=0.90 Iniform Loads (Ib/ft) Vert: 1-2=-20, 2-3=-2	1 ∋=0.90, Plate Increase=0.90 F 20, 5-6=-20, 4-5=-50, 9-10=-1	, Pit. 0					
17) D rr U	(F) Dead: Lumber Increase netal=0.90 Iniform Loads (lb/ft) Vert: 1-2=-20, 2-3=-2	e=0.90, Plate Increase=0.90 F 20, 5-6=-20, 4-5=-50, 9-10=-1	Plt. O					
18) D ((Ir U	veral + 0.75 Roof Live 0.6 MWFRS Wind (Ne increase=1.60, Plate In Iniform Loads (Ib/ft) Vert: 1-2=-32, 2-3=-3	(bal.) + 0.75 Attic Floor + 0.75 g. Int) Left): Lumber icrease=1.60 32, 5-6=-20, 4-5=-99, 9-10=-1	0					

Horz: 1-6=17, 5-9=6

19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75 (0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (lb/ft)
 Vort: 1 2 = 2 2 = 2 2 = 5 = 20.4 E = 00.0 10 = 10

Vert: 1-2=-32, 2-3=-32, 5-6=-20, 4-5=-99, 9-10=-10 (F)

Horz: 1-6=-6, 5-9=-17

20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75 (0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (lb/ft)

Vert: 1-2=-32, 2-3=-32, 5-6=-20, 4-5=-99, 9-10=-10 (F)

Horz: 1-6=16, 5-9=5

21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75 (0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (lb/ft) Vert: 1-2=-32, 2-3=-32, 5-6=-20, 4-5=-99, 9-10=-10 (F)

Horz: 1-6=-5, 5-9=-16



Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	B1E	Piggyback Base Supported Gable	1	1	Job Reference (optional)	163985414

Scale = 1:74

Run: 8 73 S Feb 22 2024 Print: 8 730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:19 ID:4C_?jOk7l8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

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Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.83	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.01	17	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 224 lb	FT = 20

LUMBER TOP CHORD 2-30=-361/169, 1-2=0/43, 2-3=-480/303 This truss has been designed for a 10.0 psf bottom 3-5=-346/223, 5-6=-322/207, 6-7=-281/179, chord live load nonconcurrent with any other live loads. TOP CHORD 2x4 SP No.2 7-8=-264/170, 8-9=-243/164, 9-10=-230/196, 2x4 SP No.2 10) * This truss has been designed for a live load of 20.0psf BOT CHORD 10-11=-171/179, 11-12=-171/188, on the bottom chord in all areas where a rectangle 2x4 SP No.2 WEBS 12-13=-171/188, 13-14=-171/188, 3-06-00 tall by 2-00-00 wide will fit between the bottom OTHERS 2x4 SP No 2 *Except* 14-15=-171/188, 15-16=-171/188, chord and any other members. 25-7,27-6,28-5,29-3:2x4 SP No.3 16-17=-148/158 11) All bearings are assumed to be User Defined . BRACING BOT CHORD 29-30=-204/175, 28-29=-193/211, 12) Provide mechanical connection (by others) of truss to TOP CHORD Structural wood sheathing directly applied or 27-28=-188/203, 26-27=-188/202, bearing plate capable of withstanding 249 lb uplift at joint 6-0-0 oc purlins, except end verticals. 25-26=-187/200, 24-25=-189/204, 30, 22 lb uplift at joint 17, 102 lb uplift at joint 26, 50 lb BOT CHORD Rigid ceiling directly applied or 6-0-0 oc 23-24=-189/205, 22-23=-188/205, uplift at joint 18, 43 lb uplift at joint 19, 45 lb uplift at joint bracing. 20, 56 lb uplift at joint 21, 44 lb uplift at joint 22, 87 lb 21-22=-170/188, 20-21=-170/188, WEBS 16-17, 15-18, 14-19, 1 Row at midpt 19-20=-170/188. 18-19=-170/188. uplift at joint 23, 70 lb uplift at joint 24, 76 lb uplift at joint 13-20, 12-21, 10-22, 9-23 17-18=-170/188 25, 89 lb uplift at joint 27, 20 lb uplift at joint 28 and 336 **REACTIONS** (size) 17=23-9-0, 18=23-9-0, 19=23-9-0, WFBS 15-18=-125/141, 14-19=-121/76, lb uplift at joint 29. 20=23-9-0, 21=23-9-0, 22=23-9-0, 13-20=-121/64, 12-21=-120/81, 13) Beveled plate or shim required to provide full bearing 23=23-9-0, 24=23-9-0, 25=23-9-0, 10-22=-137/100, 9-23=-154/112 surface with truss chord at joint(s) 26, 23, 24, 25, 27, 28, 26=23-9-0, 27=23-9-0, 28=23-9-0, 8-24=-132/95, 7-25=-134/96, 6-27=-138/103, 29 29=23-9-0, 30=23-9-0 5-28=-126/74, 3-29=-211/231 14) This truss is designed in accordance with the 2015 30=451 (LC 7) Max Horiz International Residential Code sections R502.11.1 and NOTES Max Uplift 17=-22 (LC 7), 18=-50 (LC 6), R802.10.2 and referenced standard ANSI/TPI 1. Unbalanced roof live loads have been considered for 1) 19=-43 (LC 7), 20=-45 (LC 6), LOAD CASE(S) Standard this design 21=-56 (LC 7), 22=-44 (LC 7), 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 23=-87 (LC 10), 24=-70 (LC 10), Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. 25=-76 (LC 10), 26=-102 (LC 9), OR II; Exp B; Enclosed; MWFRS (envelope) exterior zone 27=-89 (LC 10), 28=-20 (LC 10), and C-C Exterior (2) zone; cantilever left and right 29=-336 (LC 10), 30=-249 (LC 8) exposed ; end vertical left and right exposed;C-C for Max Grav 17=61 (LC 22), 18=167 (LC 1), members and forces & MWFRS for reactions shown; 19=160 (LC 1), 20=159 (LC 22), Lumber DOL=1.60 plate grip DOL=1.60 21=165 (LC 1), 22=159 (LC 17), Truss designed for wind loads in the plane of the truss 3) SEAL 23=174 (LC 17), 24=173 (LC 17), only. For studs exposed to wind (normal to the face), 25=166 (LC 17), 26=90 (LC 6), 036322 see Standard Industry Gable End Details as applicable, 27=175 (LC 17), 28=168 (LC 1), or consult qualified building designer as per ANSI/TPI 1. 29=299 (LC 8), 30=520 (LC 7) Provide adequate drainage to prevent water ponding. 4۱ FORCES (Ib) - Maximum Compression/Maximum All plates are 2x4 MT20 unless otherwise indicated. 5) Tension 6) Gable requires continuous bottom chord bearing. 7) G

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

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

March 4,2024

mmm

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters with 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 bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	B2	PIGGYBACK BASE	1	1	Job Reference (optional)	163985415

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:19 ID:4C_?jOk7l8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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

Scale = 1:72.8

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.74	Vert(LL)	-0.48	7-8	>589	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.73	Vert(CT)	-0.78	7-8	>360	180			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.77	Horz(CT)	0.10	7	n/a	n/a			
BCDL	10.0	Code	IRC201	5/TPI2014	Matrix-MS							Weight: 176 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 *Excep 2x4 SP No.2 *Excep 2x4 SP No.2 *Excep 9-3,10-2:2x4 SP No. Structural wood shei 3-9-8 oc purlins, exi Rigid ceiling directly bracing. 1 Row at midpt (size) 7=0-5-8, 1 Max Horiz 10=447 (L Max Uplift 7=-207 (L Max Grav 7=958 (LC	t* 5-6:2x6 SP No.2 t* 8-7:2x4 SP DSS t* 6-7:2x4 SP DSS, 3 athing directly applie cept end verticals. applied or 8-1-3 oc 6-7, 3-8, 5-7 10=0-5-8 C 7), 10=-110 (LC 1) C 7), 10=-110 (LC 1)	5) 6) 7) ed or 8) 9) 9)	* This truss h on the botton 3-06-00 tall b chord and an All bearings a Bearing at jo using ANSI/I designer sho Provide mecl bearing plate 7 and 110 lb This truss is International R802.10.2 an	has been designed in chord in all areas by 2-00-00 wide wil by other members, are assumed to be int(s) 10 considers PI 1 angle to grain uld verify capacity hanical connection capable of withste uplift at joint 10. designed in accorrc Residential Code ind referenced stan Standard	for a live s where I fit betw with BC User D parallel formula of beari (by oth anding 2 dance w sections dard AN	e load of 20. a rectangle veen the bott DL = 10.0ps efined . to grain valu a. Building ng surface. ers) of truss 07 lb uplift a ith the 2015 R502.11.1 a (SI/TPI 1.	Opsf tom if. ue to t joint and						
FORCES	(lb) - Maximum Com Tension	pression/Maximum												
TOP CHORD	1-2=0/43, 2-3=-1840 5-6=-186/194, 6-7=-1)/292, 3-5=-768/271, 275/142, 2-10=-105	1/284											
BOT CHORD	9-10=-501/503. 8-9=	-521/1682. 7-8=-209	9/548											
WEBS	3-9=-278/1122, 3-8= 5-7=-787/194, 2-9=-	-1321/434, 5-8=-81/ 18/1149	618,										and second	
NOTES												11111 01	Elle.	
1) Unbalanc	ed roof live loads have	been considered for	r									TH UA	20/11	
this desig	n.										2	Mirch	1. 1/1.	11
 Wind: AS Vasd=103 II; Exp B; and C-C E exposed ; members Lumber D Provide a 	CE 7-10; Vult=130mph Bmph; TCDL=6.0psf; BG Enclosed; MWFRS (en Exterior (2) zone; cantil end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO dequate drainage to pro	(3-second gust) CDL=6.0psf; h=30ft; ivelope) exterior zon ever left and right ght exposed;C-C for for reactions shown; L=1.60 event water ponding	Cat. le							Contraction of the second		SEA 0363	L 22	Annun

 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 036322 MGINEERING BY

> 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	B4	ROOF TRUSS	6	1	Job Reference (optional)	163985416

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:20 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:73.4 Plate Offsets (X, Y): [5:0-4-0,0-2-12], [10:0-4-4,0-2-0], [13:0-4-0,0-2-4]

Loading (psf) TCLL (roof) 20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015	5/TPI2014	CSI TC BC WB Matrix-MS	0.75 0.62 0.75	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.24 0.13	(loc 10-1 10-1 1	:) I/defl 1 >999 1 >999 8 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 224 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD 2x4 SP No.2 *Exce WEBS 2x4 SP No.2 *Exce No.3, 12-2,7-18:2x BRACING TOP CHORD Structural wood sh 3-8-0 oc purlins, e Except: 6-0-0 oc bracing: 9 BOT CHORD Rigid celling direct bracing. WEBS 1 Row at midpt JOINTS 1 Brace at Jt(s): 13 REACTIONS (size) 8=0-5-8, Max Horiz 12=450 Max Uplift 12=-94 (Max Grav 8=425 (I 18=902 FORCES (b) - Maximum Co TOP CHORD 1-2=0/46, 2-3=-184 5-6=-1651/204, 6-7 9-13=-125/168, 6-1 2-12=-1066/267, 7 BOT CHORD 11-12=-498/500, 11 9-10=-133/143, 8-5 WEBS 3-11==-242/1122, 3 5-10=-623/243, 5-1 2-11=0/1163, 13-11 10-13=-299/1368 NOTES	pt* 10-8:2x10 SP DSS pt* 11-3,13-5,13-7:2x4 S SP No.2 eathing directly applied kcept end verticals. -13 y applied or 6-0-0 oc 9-13, 3-10, 5-10 12=0-5-8, 18=0-3-8 LC 7) LC 10), 18=-118 (LC 7) C 2), 12=1028 (LC 1), LC 2) npression/Maximum 7/246, 3-5=-780/250, =-1683/227, 3=-258/156, 18=-876/146 0-11=-474/1691, =0/0 10=-1327/412, 3=-226/1315, =-38/36, 7-13=-189/18	1) SP or 2) 3) 4) 5) 6) 7) 8) 9) 10, 10) 11) LO 1)	Wind: ASCE Vasd=103mp II; Exp B; Enc and C-C Exte and right exp C for membe shown; Lumb Provide adeq This truss hai chord live loa * This truss hai chord live loa * This truss hai chord and an All bearings a Bearing at joi value using A designer shoi Provide mect bearing plate 12 and 118 lb This truss is of International R802.10.2 ar Load case(s) 15, 16, 17, 16 Building desig are correct fo) Attic room cho In the LOAD of the truss a Dead + Roo Plate Increa Uniform Loa Vert: 1-2= 10-11=-20	7-10; Vult=130mph h; TCDL=6.0psf; B losed; MWFRS (er riror (2) -1-0-8 to 25 osed; end vertical rs and forces & MW er DOL=1.60 plate uate drainage to put s been designed fo d nonconcurrent w as been designed fo to chord in all areas y 2-00-00 wide will y other members, w re assumed to be in nt(s) 12, 18 conside NSI/TPI 1 angle to buld verify capacity of vanical connection capable of withstau ouplift at joint 18. designed in accord& Residential Code s d referenced stance 1, 2, 3, 4, 5, 6, 7, 8 3, 19, 20, 21 has/ha gner must review lo r the intended use ecked for L/360 de CASE(S) section, I, re noted as front (F Standard f Live (balanced): L se=1.15 ds (lb/ft) e-60, 2-5=-60, 5-6= 0, 9-10=-20, 8-9=-5	(3-secc CDL=6 ivelope (-4-4 zc) eff and /FRS fc grip DC event u r a 10.0 th any or a livi where or a livi where are a 10.0 th any or a livi where are a 10.0 th any or a livi where are a 10.0 th beari (by oth doing 9 ance wi ections ard AN i, 9, 10, ve bee ads to of this t election ads ag () or back 	ond gust) .0psf; h=30ft;) exterior zon ne; cantilever or reactions DL=1.60 vater ponding psf bottom other live loace e load of 20.0 DL = 10.0psf. afined . allel to grain ormula. Build ng surface. ers) of truss to 4 lb uplift at jc th the 2015 R502.11.1 ar SI/TPI 1. 11, 12, 13, 1 n modified. verify that the russ. Increase=1.1 Y=-60, 11-12= 8=-10 (F)	Cat. e r left d;C- ds. psf m ing obint 4, y ace 5, -20,	2) 3) 4) 5)	Dead + 0. Storage + Plate Incre Uniform Li Vert: 1- 10-11=- 13-18=- Uniform Li Vert: 1- 10-11=- Uniform Li Vert: 1- 10-11=- Horz: 1- Dead + 0. Increase= Uniform Li Vert: 1- 10-11=- Vert: 1- 10-11=-	75 Roo 0.75 A baase=1 20,10 20,10 10 (F) 1.125, P baads (II 2==20, 41,9=1 6 C-C V 1.60, P baads (II 2=44, 2 1.60, P baads (II 2=5, 2=- 56, 6 C-C V	f Live (balanced) ttic Floor: Lumbel .15 .0/ft) 2-5=-50, 5-6=-50 19=-20, 9-19=-50 table Attic Withou late Increase=1.2 .0/ft) 2-5=-20, 5-6=-20 0=-40, 8-9=-70, */ Vind (Pos. Intern late Increase=1.6 .0/ft) 2-5=-36, 9-13=-3 .0/ft) 2-5=-36, 9-13=-3 .0/ft) 5=-50, 5-6=-28, 6 0=-20, 8-9=-30, */ SEA 03633	+ 0.75 Uninhal Increase=1.15 6-7=-50, 11-1 0, 8-9=-109, t Storage: Lurr 5 6-7=-20, 11-1 3-18=-10 (F) al) Case 1: Lur 0 -7=28, 11-12=- 3-18=-10 (F) 4, 2-12=-34, 7- al) Case 1: Lur 0 -7=-32, 11-12= 8/18=-10 (F)	2. Attic 5, 2=-20, ber 2=-41, nber 12, 18=34 nber 2-20,

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 in 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 ocllapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of frusses and truss systems, see **ANS/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	D	Truss	Truss Ty	be	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
24	00622-09192	B4	ROOF 1	RUSS	6	1	Job Reference (optional)	163985416
84 C	Components (Dunn, NC), Dun	n, NC - 28334,		Run: 8.73 S Feb 22	2024 Print: 8.3	730 S Feb 22	2 2024 MiTek Industries, Inc. Fri Mar 01 12:52:20	Page: 2
6)	Horz: 1-2=-25, 2-5=3 Dead + 0.6 MWFRS Wi Increase=1.60, Plate In Uniform Loads (lb/ft) Vert: 1-2=-2, 2-5=-15	0, 9-13=-31, 2-12=31, 7-18=- nd (Pos. Internal) Left: Lumbe crease=1.60	31 18) er	Dead + 0.75 Roof Live (bal.) + 0. Storage + 0.75 Attic Floor + 0.756 (Neg. Int) Left): Lumber Increase: Increase=1.60 Uniform Loads (lb/ft)	75 Uninhab. 0.6 MWFR =1.60, Plate	Attic S Wind	/OFIQ3NSGPQfiL6w3ul I XDGKVVICD0/73423C /I	
7)	10-11=-12, 9-10=-12 Horz: 1-2=-10, 2-5=3 Dead + 0.6 MWFRS Wi Increase=1.60, Plate In	, 8-9=-30, 13-18=-10 (F) , 9-13=20, 2-12=16, 7-18=20 nd (Pos. Internal) Right: Luml crease=1.60	ber 19)	Vert: 1-2=-56, 2-5=-60, 5-5=-2 10-11=-20, 10-19=-20, 9-19=-5 (F) Horz: 1-2=6, 2-5=10, 9-13=7, 2 Dead + 0, 75 Roof Live (bal) + 0	9, 6-7=-29, 60, 8-9=-99, 2-12=20, 7-1	11-12=-20, 13-18=-10 18=7		
8)	Vert: 1-2=4, 2-5=10, 10-11=-12, 9-10=-12 Horz: 1-2=-16, 2-5=-2 7-18=-16 Dead + 0.6 MWFRS Wi Increase=1.60, Plate In Uniform Loads (lb/ft) Vert: 1-2=-28, 2-5=-3 10-11=-20, 9-10=-20	5-6=27, 6-7=27, 11-12=-12, , 8-9=-30, 13-18=-10 (F) 22, 9-13=-16, 2-12=-20, nd (Neg. Internal) Left: Lumbo crease=1.60 14, 5-6=8, 6-7=8, 11-12=-20, , 8-9=-38, 13-18=-10 (F)	19) er 20)	Storage + 0.75 Kob Live (bal.) + 0. Storage + 0.75 Attic Floor + 0.75((Neg. Int) Right): Lumber Increase Increase=1.60 Uniform Loads (lb/ft) Vert: 1-2=-38, 2-5=-42, 5-6=-2: 10-11=-20, 10-19=-20, 9-19=-5 (F) Horz: 1-2=-12, 2-5=-8, 9-13=-2 Dead + 0.75 Roof Live (bal.) + 0.	0.6 MWFR e=1.60, Pla 0, 6-7=-29, 10, 8-9=-99, 0, 2-12=-7, 75 Uninhab.	Attic S Wind te 11-12=-20, 13-18=-10 7-18=-20 Attic		
9)	Horz: 1-2=8, 2-5=14, Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (lb/ft) Vert: 1-2=-4, 2-5=-9,	9-13=9, 2-12=27, 7-18=9 nd (Neg. Internal) Right: Plate Increase=1.60 5-6=8, 6-7=8, 11-12=-20,		Storage + 0.75 Attic Floor + 0.75 (Neg. Int) 1st Parallel): Lumber In Increase=1.60 Uniform Loads (Ib/ft) Vert: 1-2=-25, 2-5=-29, 5-6=-4	0.6 MWFR crease=1.6 2, 6-7=-42,	S Wind 0, Plate 11-12=-20,		
10)	10-11=-20, 9-10=-20 Horz: 1-2=-16, 2-5=- Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (lb/ft) Vert: 1-2=21, 2-5=27	, 8-9=-38, 13-18=-10 (F) 11, 9-13=-27, 2-12=-9, 7-18=- nd (Pos. Internal) 1st Parallel Plate Increase=1.60 , 5-6=10, 6-7=10, 11-12=-12,	27 : 21)	(F) Horz: 1-2=-25, 2-5=-21, 9-13=- Dead + 0.75 Roof Live (bal.) + 0. Storage + 0.75 Attic Floor + 0.75 (Neg. Int) 2nd Parallel): Lumber I	6, 8-9=-99, 6, 2-12=18, 75 Uninhab, 0.6 MWFR ncrease=1.6	7-18=-10 7-18=6 Attic S Wind 60, Plate		
11)	10-11=-12, 9-10=-12 Horz: 1-2=-33, 2-5=- Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (lb/ft) Vert: 1-2=4, 2-5=10, 10-11=-12, 9-10=-12 Horz: 1-2=-16, 2-5=-2	, 8-9=-30, 13-18=-10 (F) 39, 9-13=19, 2-12=13, 7-18=1 nd (Pos. Internal) 2nd Paralle Plate Increase=1.60 5-6=10, 6-7=10, 11-12=-12, , 8-9=-30, 13-18=-10 (F) 22, 9-13=-13, 2-12=-19,	9 I:	Increase=1.60 Uniform Loads (lb/ft) Vert: 1-2=-38, 2-5=-42, 5-6=-4: 10-11=-20, 10-19=-20, 9-19=-5 (F) Horz: 1-2=-12, 2-5=-8, 9-13=-1	2, 6-7=-42, ⁻ 10, 8-9=-99, 8, 2-12=-6,	11-12=-20, 13-18=-10 7-18=-18		
12)	7-18=-13 Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (lb/ft) Vert: 1-2=21, 2-5=27 10-112-12, 9-1012	nd (Pos. Internal) 3rd Parallel Plate Increase=1.60 , 5-6=10, 6-7=10, 11-12=-12, 8-9-30, 13-18-10 (E)	:					
13)	Horz: 1-2=-33, 2-5=- Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (lb/ft) Vert: 1-2=4, 2-5=10, 10-11=-12, 9-10=-12 Horz: 1-2=-16, 2-5=-2	99, 9-13=19, 2-12=13, 7-18=1 nd (Pos. Internal) 4th Parallel Plate Increase=1.60 5-6=10, 6-7=10, 11-12=-12, , 8-9=-30, 13-18=-10 (F) 22, 9-13=-13, 2-12=-19,	9 :					
14)	7-18=-13 Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (lb/ft) Vert: 1-2=13, 2-5=8, 10-11=-20, 9-10=-20	nd (Neg. Internal) 1st Parallel Plate Increase=1.60 5-6=-9, 6-7=-9, 11-12=-20, , 8-9=-38, 13-18=-10 (F)	:					
15)	Horz: 1-2=-33, 2-5=-, Dead + 0.6 MWFRS Wi Lumber Increase=1.60, Uniform Loads (lb/ft) Vert: 1-2=-4, 2-5=-9, 10-11=-20, 9-10=-20	28, 9-13=8, 2-12=24, 7-18=8 nd (Neg. Internal) 2nd Paralle Plate Increase=1.60 5-6=-9, 6-7=-9, 11-12=-20, , 8-9=-38, 13-18=-10 (F)	el:					
16)	Horz: 1-2=-16, 2-5=- Dead + Uninhab. Attic S Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 1-2=-20, 2-5=-2 10-11=-20, 10-19=-2 (E)	11, 9-13=-24, 2-12=-8, 7-18=- Storage: Lumber Increase=1.2 10, 5-6=-20, 6-7=-20, 11-12=-2 0, 9-19=-60, 8-9=-50, 13-18=-	24 25, 20, -10					
17)	(F) (C) (C) (C) (C) (C) (C) (C) (C	Nttic Storage: Lumber crease=1.25 0, 5-6=-20, 6-7=-20, 11-12=-2 0, 9-19=-60, 8-9=-50, 13-18=-	20, 10					



Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	B5	PIGGYBACK BASE	1	1	Job Reference (optional)	163985417

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:20 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [5:0-3-0,0-2-2], [6:Edge,0-2-0]

Scale = 1:72.8

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	5/TPI2014	CSI TC BC WB Matrix-MS	0.71 0.71 0.75	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.45 -0.73 0.09	(loc) 7-8 7-8 7	l/defl >621 >380 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 176 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD WEBS NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=10: II; Exp B; and C-C1 II; Exp B; and C-C1	2x4 SP No.2 *Excep 2x4 SP No.2 *Excep 2x4 SP No.2 *Excep 9-3:2x4 SP No.3, 10- Structural wood shea 3-10-6 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (size) 7=0-3-8, 1 Max Horiz 10=447 (L Max Uplift 7=-206 (L Max Grav 7=947 (LC (lb) - Maximum Com Tension 1-2=0/46, 2-3=-1801 5-6=-185/194, 6-7=-: 9-10=-502/507, 8-9= 3-9=-276/1096, 3-8= 5-7=-779/193, 2-9=-: ed roof live loads have n. CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; BC Enclosed; MWFRS (en Exterior (2) zone; cantil end vortical left and rig and forces & MWFRS	t* 5-6:2x6 SP No.2 t* 8-7:2x4 SP DSS t* 6-7:2x4 SP DSS t* 6-7:2x4 SP DSS, -2:2x6 SP No.2 athing directly applie xcept end verticals. applied or 8-1-12 oc 6-7, 3-8, 5-7 10=0-5-8 .C 7), 10=-111 (LC 10 C 2), 10=1007 (LC 1) pression/Maximum /287, 3-5=-754/268, 270/140, 2-10=-1048 -516/1648, 7-8=-20/ 12/2112 been considered for (3-second gust) CDL=6.0psf; h=30ft; velope) exterior zon- ever left and right fht exposed;C-C for for reactions shown;	5) 6) 7) d or 8) 9) 0) LC 3/286 7/537 606, Cat. e	* This truss f on the bottor 3-06-00 tall t chord and ar All bearings i Bearing at jo using ANSI/J designer sho Provide mec bearing plate 7 and 111 lb This truss is International R802.10.2 ar DAD CASE(S)	has been designed in chord in all areas by 2-00-00 wide wil hy other members, are assumed to be wint(s) 10 considers TPI 1 angle to grain buld verify capacity thanical connection e capable of withsta uplift at joint 10. designed in accorror Residential Code and referenced stan Standard	for a liv s where Il fit betw with BC User D s parallel of bearin (by oth anding 2 dance w sections dard AN	e load of 20. a rectangle veen the bott DL = 10.0ps efined . to grain valu a. Building ng surface. ers) of truss 06 lb uplift a ith the 2015 R502.11.1 a ISI/TPI 1.	Opsf tom if. ue to t joint and				SEA 0363	ROLL	
Lumper L	DL= 1.60 plate grip DO	L=1.0U								-	- 8			-

Provide adequate drainage to prevent water ponding. 3) This truss has been designed for a 10.0 psf bottom 4)

chord live load nonconcurrent with any other live loads.

A SNGIN GI minin March 4,2024

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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	B6	Piggyback Base	2	1	Job Reference (optional)	163985418

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:20 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.6 Plate Offsets (X, Y): [1:Edge,0-1-8], [4:0-2-12,0-4-0], [5:Edge,0-2-0]

		-												
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0.65	Vert(LL)	-0.30	6-7	>939	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.88	Vert(CT)	-0.49	6-7	>574	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.80	Horz(CT)	0.02	6	n/a	n/a			
BCDL	10.0	Code	IRC2015	/TPI2014	Matrix-MS		. ()		-			Weight: 171 lb	FT = 20%	
LUMBER			6)	All bearings a	are assumed to be	User D	efined .							
TOP CHORD	2x4 SP No.2 *Excep	ot* 4-5:2x6 SP No.2	7)	Provide mec	hanical connection	ı (by oth	ers) of truss	to						
BOT CHORD	2x4 SP No.2			bearing plate	capable of withsta	anding 2	04 lb uplift a	t joint						
WEBS	2x4 SP No.2 *Excep	ot* 5-6:2x4 SP DSS		6 and 86 lb u	plift at joint 10.									
BRACING			8)	This truss is	designed in accord	dance w	ith the 2015							
TOP CHORD	Structural wood she	athing directly applie	ed or	International	Residential Code	sections	R502.11.1 a	and						
	4-3-12 oc purlins, e	xcept end verticals.		R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.							
BOT CHORD	Rigid ceiling directly bracing.	applied or 8-10-12 of	DC LO	AD CASE(S)	Standard									
WEBS	1 Row at midpt	5-6, 2-7, 4-6												
REACTIONS	(size) 6=0-3-8 1	10=0-5-8												
	Max Horiz 10=430 (I	C 7)												
	Max I Inlift 6=-204 (I	C 7) 10=-86 (I C 10)											
	Max Grav 6=977 (LC	C 2), 10=932 (LC 1)	/											
FORCES	(lb) - Maximum Com	nression/Maximum												
	Tension	procoroni, maximum												
TOP CHORD	1-2=-1115/205. 2-4=	-769/263. 4-5=-185/	197.											
	5-6=-271/142, 1-10=	=-863/178	,											
BOT CHORD	9-10=-426/416, 7-9=	-267/974, 6-7=-196/	582											
WEBS	2-9=0/227, 2-7=-531	/257, 4-7=-75/689,												
	1-9=0/669, 4-6=-857	7/176												
NOTES												minin	1111	
1) Unbalance	ed roof live loads have	been considered for										White CA	Dalle	
this desigr	n.											"ath on	10/ (1)	
Wind: ASC	CE 7-10; Vult=130mph	(3-second gust)									~	OVERSS	i Air	
Vasd=103	8mph; TCDL=6.0psf; B	CDL=6.0psf; h=30ft;	Cat.								in	10	No Z	1
II; Exp B; I	Enclosed; MWFRS (en	velope) exterior zon	е							1		ion /		1
and C-C E	Exterior (2) zone; cantil	ever left and right								-				2
exposed ;	end vertical left and rig	ght exposed;C-C for									1	SEA		=
members	and forces & MWFRS	for reactions shown								=	1	0202		1
Lumber D	OL=1.60 plate grip DO	DL=1.60								1	:	0363.	~~ :	-
 Provide ac 	dequate drainage to pr	event water ponding								-	8		÷	1
4) This truss	has been designed for	r a 10.0 psf bottom									1	·	0 i.	2
chord live	ioad nonconcurrent wi	th any other live load	JS.								2.0	NGINE	Enix	
5) ^ I his trus	is has been designed f	or a live load of 20.0	psr								1	ALC: GIN		
on the bot	tom chord in all areas	where a rectangle									1	A C	II BUIN	
3-06-00 ta	an by 2-00-00 wide will	Tit between the botto	m									11.7. 0	in in it	
cnora and	any other members, w	vith BCDL = 10.0pst.											1.1.1.2	

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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A. GILBE March 4,2024

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	C1E	Piggyback Base Supported Gable	1	1	Job Reference (optional)	163985419

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 01 12:52:21 ID:4C_?jOk7l8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



12-13=-278/368, 13-14=-278/368,

14-15=-278/368, 15-16=-278/368,

16-17=-278/368, 17-18=-278/368,

18-19=-332/431, 19-20=-275/366,

20-21=-216/294, 21-22=-160/226,

24-25=-47/83, 25-26=-41/55, 26-27=-65/38,

51-52=-53/70, 50-51=-53/70, 49-50=-53/70,

48-49=-53/70, 47-48=-53/70, 46-47=-53/70,

45-46=-53/70, 43-45=-53/70, 42-43=-53/70,

41-42=-53/70, 40-41=-53/70, 39-40=-53/70,

38-39=-53/70, 37-38=-53/70, 35-37=-53/70,

34-35=-53/70, 33-34=-53/70, 32-33=-53/70,

31-32=-53/70, 30-31=-53/70, 29-30=-53/70,

22-23=-102/159. 23-24=-29/80.

27-28=-62/42

28-29=-53/70

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





Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARNING 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 bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

BOT CHORD

34=44-5-0, 35=44-5-0, 37=44-5-0,

38=44-5-0, 39=44-5-0, 40=44-5-0,

41=44-5-0, 42=44-5-0, 43=44-5-0,

45=44-5-0, 46=44-5-0, 47=44-5-0,

48=44-5-0, 49=44-5-0, 50=44-5-0,

28=-43 (LC 7), 29=-102 (LC 11),

30=-54 (LC 7), 31=-72 (LC 11),

32=-73 (LC 11), 33=-72 (LC 11),

34=-77 (LC 11), 35=-69 (LC 11),

38=-31 (LC 7), 39=-32 (LC 6),

40=-29 (LC 7), 41=-29 (LC 7),

42=-36 (LC 6), 43=-22 (LC 7),

52=-263 (LC 6)

46=-86 (LC 10), 47=-73 (LC 10),

48=-71 (LC 10), 49=-80 (LC 10), 50=-43 (LC 10), 51=-197 (LC 10),

51=44-5-0, 52=44-5-0

Max Horiz 52=-310 (LC 8)

Max Uplift

Continued on page 2

Job	Truss	russ Truss Type		Ply	Colston 3 car Bonus Full Frnt Prch RCP	100005110
2400622-09192	C1E	Piggyback Base Supported Gable	1	1	Job Reference (optional)	163985419

- 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.
- Provide adequate drainage to prevent water ponding. 4)
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc. 8) 9)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 52, 43 lb uplift at joint 28, 31 lb uplift at joint 38, 32 lb uplift at joint 39, 29 lb uplift at joint 40, 29 lb uplift at joint 41, 36 lb uplift at joint 42, 22 lb uplift at joint 43, 86 lb uplift at joint 46, 73 lb uplift at joint 47, 71 lb uplift at joint 48, 80 lb uplift at joint 49, 43 lb uplift at joint 50, 197 lb uplift at joint 51, 69 lb uplift at joint 35, 77 lb uplift at joint 34, 72 lb uplift at joint 33, 73 lb uplift at joint 32, 72 lb uplift at joint 31, 54 lb uplift at joint 30 and 102 lb uplift at joint 29.
- 13) 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 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 01 12:52:21 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	C2	Piggyback Base	5	1	Job Reference (optional)	163985420

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:21 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.2

Plate Offsets (X, Y): [2:0-2-12,0-1-8], [5:0-6-0,0-2-0], [7:0-6-0,0-2-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-MS	0.86 0.73 0.62	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.17 -0.33 0.10	(loc) 15-16 15-16 11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 316 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Exc No.3 Structural wood si except end vertica Rigid ceiling direct bracing. 1 Row at midpt (size) 11=0-5 Max Horiz 20=-31 Max Uplift 11=-15 Max Grav 11=176 (lb) - Maximum Co	ept* 20-2,11-10:2x4 SF heathing directly applie ls. ly applied or 9-8-5 oc 3-18, 6-16, 8-15 8, 20=0-5-8 0 (LC 8) 2 (LC 11), 20=-154 (LC 4 (LC 1), 20=1837 (LC mpression/Maximum	2) 2, 3, 4, 5, 6, 5, 10, 7, 8,	Wind: ASCE Vasd=103mp II; Exp B; Enn and C-C Exte exposed ; en members and Lumber DOL Provide adec All plates are This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide mecl	7-10; Vult=130mpi bh; TCDL=6.0psf; E closed; MWFRS (e erior (2) zone; canti d vertical left and r d torces & MWFRS =1.60 plate grip DC uate drainage to p 3x6 MT20 unless s been designed for d nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will y other members, are assumed to be hanical connection	h (3-sec 3CDL=6 nvelope ilever le ight exp 5 for rea DL=1.6 revent otherwi for a 10. <i>v</i> ith any for a liv swhere I fit betw with BC SP No. (by oth	cond gust) .0psf; h=30ft;) exterior zor ff and right oosed;C-C for ctions shown) water ponding se indicated. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto DL = 10.0psf 2. ers) of truss t	Cat. ne ; ; ds. ppsf					
TOP CHORD	Tension 1-2=0/43, 2-3=-23 5-6=-1782/519, 6- 7-8=-2137/550, 8- 9-10=-2562/492, 2 10-11=-1704/356	52/437, 3-5=-2052/508 7=-1782/519, 9=-2550/536, -20=-1768/390,	3, 9) LC	 bearing plate capable of withstanding 154 lb uplift at joint 20 and 152 lb uplift at joint 11. 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 									
BOT CHORD	19-20=-305/522, 16-18=-101/1551, 13-15=-213/1988, 11-12=-37/86	8-19=-203/1866, 15-16=-69/1647, 12-13=-367/2410,									and and	OR FESS	ROUNT
WEBS	3-19=-30/169, 3-1 5-16=-198/555, 6- 7-16=-179/401, 7- 8-15=-671/253, 8- 9-13=-570/190, 9- 2-19=-78/1547, 10	8=-465/249, 5-18=-82/ 16=-475/219, 15=-134/792, 13=-53/463, 12=-638/191,)-12=-378/2423	553,							Contraction of the second		SEA 0363	L 22
NOTES 1) Unbalance this design	ed roof live loads ha n.	ve been considered for										A CA C	EER. KINN



B A. GILD March 4,2024

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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	C3	Piggyback Base	4	1	lob Reference (optional)	163985421

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March 4,2024



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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	C4	Piggyback Base	1	1	Ich Reference (ontional)	163985422

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:22 ID:4C_?jOk7l8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	C5	Piggyback Base	3	1	Job Reference (optional)	163985423

Run: 8 73 S. Feb 22 2024 Print: 8 730 S Feb 22 2024 MiTek Industries. Inc. Fri Mar 01 12:52:23

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	G1E	Common Supported Gable	1	1	Job Reference (optional)	163985424

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:23 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41

Plate Offsets (X, Y): [19:0-3-0,0-3-0]

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2	015/TPI2014	CSI TC BC WB Matrix-MR	0.10 0.03 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 99 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	LUMBER FOP CHORD 2x4 SP No.2 3OT CHORD 2x4 SP No.2 SBS 2x4 SP No.2 *Except* 14-12:2x4 SP No.3 DTHERS 2x4 SP No.3 BRACING FOP CHORD FOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS (size) 14=19-11-0, 15=19-11-0, 16=19-11-0, 20=19-11-0, 21=19-11-0, 22=19-11-0, 22=19-11-0, 22=19-11-0, 22=19-11-0, 22=19-11-0, 22=19-11-0, 24=19-11-0, 24=19-11-0 Max Horiz 24=-61 (LC 11) Max Uplift 14=-36 (LC 7), 15=-54 (LC 11), 18=-45 (LC 11), 20=-45 (LC 11), 21=-44 (LC 10), 22=-39 (LC 10), 21=-44 (LC 10), 22=-39 (LC 10), 23=-60 (LC 10), 24=-35 (LC 6) Max Grav 14=152 (LC 22), 15=139 (LC 1), 16=166 (LC 22), 17=157 (LC 1), 18=170 (LC 22), 19=156 (LC 1), 20=-170 (LC 21), 21=-157 (LC 1), 20=170 (LC 21), 21=-157 (LC 1), 20=170 (LC 21), 21=-157 (LC 1), 20=-170 (LC 21), 21=-157 (LC 1), 20=170 (LC 21), 21=-157 (LC 1), 20=-170 (LC 21), 21=-157 (LC 1), 20=170 (LC 21), 21=-157 (LC 1), 20=17					7-19=-116/0, 6-20: 4-22=-125/79, 3-2: 9-17=-117/76, 10- roof live loads hav 7-10; Vult=130mp bh; TCDL=6.0psf; closed; MWFRS (erior (2) zone; can d vertical left and d forces & MWFR .=1.60 plate grip D ned for wind loads uds exposed to wird l Industry Gable E valified building de e 2x4 MT20 unless es continuous bott ully sheathed from sts lateral moveme spaced at 2-0-0 o is been designed fad nonconcurrent has been designed in chord in all area by 2-00-00 wide wi yo ther members.	=-130/77 3=-101/7 16=-125, we been of bh (3-sec BCDL=6 envelope tilever le right exp S for rea VOL=1.60 in the p hd (norm ind Deta signer as otherwition chorn on one fac on the (i.e. dc c. for a 10.0 with any f for a liv s where ill fit betw	 , 5-21=-117/7 4, 8-18=-130 79, 11-15=-1 considered fo cond gust) .0psf; h=30ft; exterior zor ft and right oxosed;C-C for oxosed;C-C for oxosed;C-C for ane of the tru, al to the face is as applical is per ANSI/TF se indicated. d bearing. e or securely iagonal web) D psf bottom other live loa e load of 20.0 construction 	76, /77, 01/71 r ; Cat. he ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;				ORTH CA	ROLIN
FORCES	(b) - Maximum Compression/Maximum Tension 2-24=-134/96, 1-2=0/27, 2-3=-58/49, 3-4=-33/59, 4-5=-39/78, 5-6=-52/109, 6-7=-67/148, 7-8=-67/148, 8-9=-52/109, 9-10=-39/70, 10-11=-26/47, 11-12=-40/36, 12-13=0/27, 12-14=-134/97				 Al bearing at provide mec bearing plate 24, 36 lb upli uplift at joint 23, 45 lb upli uplift at joint 	hanical connection e capable of withst ift at joint 14, 45 lb 21, 39 lb uplift at j ift at joint 18, 44 lb 16 and 54 lb uplift	i (by oth anding 3 uplift at oint 22, (uplift at at joint	ers) of truss t 5 lb uplift at j joint 20, 44 lk 60 lb uplift at j joint 17, 40 lk 15.	o oint o joint o		THE DAY		SEA 0363	L 22
BOT CHORD	23-24=-1 20-21=-1 16-17=-1	1/75, 22-23 1/75, 18-20 1/75, 15-16	=-11/75, 21-22=-11 =-11/75, 17-18=-11 =-11/75, 14-15=-11	/75, /75, /75	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. LOAD CASE(S) Standard MSI/TPI 1. March 4,2024								LBE ch 4,2024	



Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	G2	Common	5	1	Job Reference (optional)	163985425

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:24 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:41

Plate Offsets (X, Y): [3:0-0-0,0-0], [8:0-4-8,0-2-8], [9:0-4-0,0-3-0], [10:0-4-8,0-2-8]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.91	Vert(LL)	-0.18	8-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.89	Vert(CT)	-0.37	8-9	>632	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.18	Horz(CT)	0.03	8	n/a	n/a			
BCDL	10.0	Code	IRC2015	/TPI2014	Matrix-MS							Weight: 88 lb	FT = 20%	
LUMBER			6)	Provide mec	hanical connection	(by oth	ers) of truss	to						
TOP CHORD	2x4 SP No.2			bearing plate	capable of withsta	nding 1	21 lb uplift a	t joint						
BOT CHORD	2x4 SP No.2			10 and 121 ll	o uplift at joint 8.		wheel - 0045							
WEBS	2x4 SP No.3 *Excer	ot* 10-2,8-6:2x6 SP N	lo.2 ()	I his truss is	designed in accord	ance w	Ith the 2015	nd						
BRACING				R802 10 2 ar	d referenced stand	ard AN	R302.11.1 a	anu						
TOP CHORD	Structural wood she	eathing directly applie	ed or		Stondard		101/1111.							
	2-2-0 oc purlins, ex	cept end verticals.	LU	AD CASE(S)	Stanuaru									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc)											
REACTIONS	(size) 8=0-5-8,	10=0-5-8												
	Max Horiz 10=-60 (I	_C 11)												
	Max Uplift 8=-121 (I	_C 11), 10=-121 (LC	10)											
	Max Grav 8=855 (L	C 1), 10=855 (LC 1)												
FORCES	(lb) - Maximum Con	npression/Maximum												
TOP CHORD	1-2=0/29 2-3=-122	9/338 3-4=-968/250												
	4-5=-968/250, 5-6=	-1229/338, 6-7=0/29,												
	2-10=-753/299, 6-8	=-753/299												
BOT CHORD	8-10=-191/1049													
WEBS	4-9=-49/468, 5-9=-2	257/184, 3-9=-257/18	4											
NOTES														
1) Unbalance	ed roof live loads have	been considered for										minin	1111	
this design).											IN TH CA	Ro"11	
2) Wind: ASC	CE 7-10; Vult=130mpl	(3-second gust)	•								1	A	ALI'L	
Vasd=103	mph; TCDL=6.0pst; E	CDL=6.0pst; h=30ft;	Cat.								1	O'.FESO	Id.	
	Enclosed; IVIVERS (e	nvelope) exterior zon	е							6	25	in 1	U.S	1
	and vertical left and ri	abt exposed C.C for												9
members a	and forces & MW/FRS	for reactions shown								-		CEA.		- E
Lumber D	DL=1.60 plate grin DC	DL=1.60								=	1	SEA		=
3) This truss	has been designed for	r a 10.0 psf bottom									:	0363	22 :	-
chord live l	load nonconcurrent w	ith any other live load	ds.							1				-
4) * This truss	s has been designed	for a live load of 20.0	psf								-	1		3
on the bott	tom chord in all areas	where a rectangle									10	N. SNOW	-ER. A.	5
3-06-00 tal	ll by 2-00-00 wide will	fit between the botto	m								1	A. GIN	5. 4 N	
chord and	any other members.	00 N 0									1	CAC	11 BEIN	
All bearing	is are assumed to be	SP NO.2.										11. 9. 6	L'IIII	

- * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members.
- 5) All bearings are assumed to be SP No.2 .

G minin March 4,2024

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	M1	Monopitch	5	1	Job Reference (optional)	163985426

-1-0-0

1-0-0

84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:24 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

1 4





5-11-0

5-11-0

Scale = 1:30

Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.37	DEFL Vert(LL) Vert(CT)	in -0.03 -0.07	(loc) 4-5 4-5	l/defl >999 >961	L/d 240 180	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR	0.00		0.00	4	n/a	n/a	Weight: 24 lb	FT = 20%	
3CDL LUMBER TOP CHORD 3OT CHORD 1) Wind: AS Vasd=10 I) Wind: AS Vasd=10 II) Wind: AS Vasd=10 II) Wind: AS Vasd=10 II) Wind: AS Vasd=10 II) First strust chord live 3) * This trust chord live 3) * This trust chord of live 4) All bearin 5) Provide r bearing p 4 and 84 6) This trust Internatic R802.10.	 10.0 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood she 5-11-0 oc purlins, e Rigid ceiling directly bracing. (size) 4=0-5-8, f Max Horiz 5=111 (LC Max Uplift 4=-48 (LC Max Grav 4=213 (LC (Ib) - Maximum Com Tension 1-2=0/23, 2-3=-119/2-5=-261/203 4-5=-31/53 SCE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B Enclosed; MWFRS (er Exterior (2) zone; cantil; end vertical left and rigs and forces & MWFRS 20L=1.60 plate grip DC s has been designed for bload nonconcurrent wiss is designed in accorda onal Residential Code si 2 and referenced stand 	Code t* 5-2:2x6 SP No.2 athing directly applie xcept end verticals. applied or 10-0-0 oc 5=0-3-0 C 9) 2 10), 5=-84 (LC 6) C 1), 5=304 (LC 1) pression/Maximum 42, 3-4=-145/115, (3-second gust) CDL=6.0psf; h=30ft; ivelope) exterior zon ever left and right ght exposed;C-C for for reactions shown DL=1.60 r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto SP No.2. (by others) of truss tr ance with the 2015 ections R502.11.1 al and ANSI/TPI 1.	IRC2015/TPI2014 LOAD CASE(S) ed or c Cat. e ds. ppsf om o pint nd	Matrix-MR Standard							Weight: 24 lb WHICH CA SEA 0363 SEA 0363 MGINI Marc	FT = 20%	MANDELLEY,
WAR Design	NING - Verify design paramete	ers and READ NOTES ON	THIS AND INCLUDED MITEK RI	FERENCE PAGE MII-74	73 rev. 1 vidual bu	/2/2023 BEFORE	USE.				ENGINEER		

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	M1E	Jack-Partial Supported Gable	1	1	Job Reference (optional)	163985427

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3-5-8

Scale = 1:25.7

Loading	(psf)	Spacing	2-0-0		CSI	0.40	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
ICLL (root)	20.0	Plate Grip DOL	1.15		10	0.18	Vert(LL)	n/a	-	n/a	999	WT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015	/TPI2014	Matrix-MR							Weight: 16 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 3-5-8 oc purlins, ext	athing directly applied cept end verticals.	6) 7) 8) or 9)	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings Provide mec bearing plate 5 and 118 lb N/A	has been design in chord in all ar by 2-00-00 wide by other member are assumed to hanical connect to capable of with uplift at joint 6.	ned for a liv eas where will fit betw ers. be SP No. tion (by oth hstanding 3	e load of 20. a rectangle /een the bott 2 . ers) of truss 9 lb uplift at	Opsf tom to joint					
BUICHURD	bracing.	applied of 6-0-0 oc	10)) This truss is	designed in acc	cordance w	th the 2015	and					
REACTIONS	(size) 5=3-0-8, 6 Max Horiz 6=77 (LC Max Uplift 5=-39 (LC	5=3-0-8 7) 5 18), 6=-118 (LC 6)	LO	R802.10.2 a	nd referenced s Standard	tandard AN	ISI/TPI 1.	anu					

	Max Grav 5=26 (LC 6), 6=355 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	2-7=-50/51, 1-2=0/22, 2-3=-45/65,
	3-4=-29/37, 4-5=-14/24
BOT CHORD	6-7=-36/96, 5-6=-49/50
WEBS	3-6=-200/147
NOTES	

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	M2	Monopitch	2	1	Job Reference (optional)	163985428

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Scale = 1:36.7	
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Plate Offsets (X, Y): [6:0-4-8,0-1-8]

Loading	(p	osf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20	0.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.25	5-6	>416	240	MT20	244/190
TCDL	10	0.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.52	5-6	>195	180		
BCLL	(0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10	0.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 42 lb	FT = 20%

1)

2)

3)

4)

5)

TOP CHORD	2x4 SP N	0.1
BOT CHORD	2x4 SP N	0.2
WEBS	2x4 SP N	o.2 *Except* 2-6:2x6 SP No.2
BRACING		
TOP CHORD	Structura	wood sheathing directly applied,
	except er	nd verticals.
BOT CHORD	Rigid ceil	ing directly applied or 8-1-8 oc
	bracing.	
REACTIONS	(size)	5=0-5-8, 6=0-3-0
	Max Horiz	6=147 (LC 9)
	Max Uplift	5=-75 (LC 10), 6=-101 (LC 6)
	Max Grav	5=336 (LC 1), 6=421 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-2=0/23,	2-3=-74/88, 3-4=-83/57,
	4-5=-266/	(133
BOT CHORD	5-6=-147/	0
WEBS	3-5=0/136	6, 2-6=-333/222
NOTES		

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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;

This truss has been designed for a 10.0 psf bottom

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom

Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 101 lb uplift at joint

chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf

Lumber DOL=1.60 plate grip DOL=1.60

chord and any other members. All bearings are assumed to be SP No.2 .

6 and 75 lb uplift at joint 5.

6) 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

SEAL 036322 March 4,2024

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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	M3	Monopitch	5	1	Job Reference (optional)	163985429

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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	M3E	Monopitch Supported Gable	2	1	Job Reference (optional)	163985430

2-8-2

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

2x4 SP No.3

bracing.

Max Horiz

Max Uplift

Max Grav

Tension

Scale = 1:27.6 Loading

TCLL (roof)

TCDI

BCLL

BCDL

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD WEBS

NOTES

1)

2)

4)

REACTIONS (size)

LUMBER

TOP CHORD

BOT CHORD

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 01 12:52:25 Page: 1 ID:4C_?jOk7l8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -1-0-0 8-6-0 1-0-0 8-6-0 2x4 u 12 3 Г 2x4 II 5 2x4 ı 4 6 3 ð 2-8-2 2 -6-10 6 8 2x4 ı 2x4 🛛 2x4 🛛 3x6 = 8-6-0 Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) in (loc) 20.0 Plate Grip DOL 1.15 тс 0.21 Vert(LL) n/a n/a 999 MT20 244/190 BC 10.0 Lumber DOL 1 15 0.14 Vert(CT) 999 n/a n/a 0.0* Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 2 n/a n/a 10.0 Code IRC2015/TPI2014 Matrix-MP Weight: 34 lb FT = 20% 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. All bearings are assumed to be SP No.2 . Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint Structural wood sheathing directly applied or 2, 11 lb uplift at joint 6, 17 lb uplift at joint 7, 82 lb uplift at 6-0-0 oc purlins, except end verticals. joint 8 and 58 lb uplift at joint 2. Rigid ceiling directly applied or 10-0-0 oc 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and 2=8-6-0, 6=8-6-0, 7=8-6-0, 8=8-6-0, R802.10.2 and referenced standard ANSI/TPI 1. 9=8-6-0 LOAD CASE(S) Standard 2=97 (LC 9), 9=97 (LC 9) 2=-58 (LC 6), 6=-11 (LC 10), 7=-17 (LC 6), 8=-82 (LC 10), 9=-58 (LC 6) 2=215 (LC 1), 6=74 (LC 1), 7=85 (LC 1), 8=355 (LC 1), 9=215 (LC 1) (lb) - Maximum Compression/Maximum 1-2=0/15, 2-3=-123/90, 3-4=-51/16, 4-5=-41/36, 5-6=-53/27 2-8=-94/44, 7-8=-40/44, 6-7=-40/44 4-7=-74/59, 3-8=-247/168 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. C 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 anna ann members and forces & MWFRS for reactions shown; SEAL Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss 036322 only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc. G

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

mmm March 4,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	M4	Monopitch	6	1	Job Reference (optional)	163985431

3-11-0

-1-0-0

84 Components (Dunn, NC), Dunn, NC - 28334,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:25 ID:4C_?jOk7l8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:27.3

													_
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC 0 BC 0 WB 0 Matrix-MR	0.13 0.10 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 4-5 4-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: AS Vasd=100 II; Exp B; and C-CI exposed ; members Lumber D 2) This truss chord live and C-CI exposed ; members Lumber D 2) This truss chord live and C-CI exposed ; members Lumber D 2) This truss chord live and T5 5) Provide m bearing p 4 and 75 6) This truss Internatio R802.10.2	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood she 3-11-0 oc purlins, e Rigid ceiling directly bracing. (size) 4=0-5-8, £ Max Horiz 5=83 (LC Max Uplift 4=-30 (LC Max Grav 4=129 (LC (b) Maximum Com Tension 1-2=0/23, 2-3=-72/2 2-5=-197/159 4-5=-24/24 CE 7-10; Vult=130mph Bmph; TCDL=6.0psf; Bf Enclosed; MWFRS (er Exterior (2) zone; cantil end vertical left and rig and forces & MWFRS VOL=1.60 plate grip DO has been designed for load nonconcurrent wi shas been designed for load nonconcurrent wi shas been designed for load nonconcurrent wi gs are assumed to be S gs are assumed to be S acchanical connection (late capable of withstar b uplift at joint 5. is is designed in accorda nal Residential Code so 2 and referenced stand	et* 5-2:2x6 SP No.2 athing directly applie xcept end verticals. applied or 10-0-0 or 5=0-3-0 7) C 10), 5=-75 (LC 6) C 1), 5=228 (LC 1) npression/Maximum 9, 3-4=-89/73, (3-second gust) CDL=6.0psf; h=30ft; nelope) exterior zon lever left and right ght exposed;C-C for for reactions shown; DL=1.60 r a 10.0 psf bottom ith any other live load or a live load of 20.0 where a rectangle fit between the botto SP No.2. (by others) of truss to nding 30 lb uplift at jo ance with the 2015 ections R502.11.1 at lard ANSI/TPI 1.	LOAD CASE(S)	Standard					A sector of the		SEA 0363 NGING Marc	ROUTE 22 E.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F	Name and A second se
WARI	NING - Verify design paramete	ers and READ NOTES ON	THIS AND INCLUDED MITEK RI	FERENCE PAGE MII-7473	rev. 1/	2/2023 BEFORE	USE.				ENGINEERI	NG BY	



Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	PB1	Piggyback	10	1	Job Reference (optional)	163985432

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zJC?f



Scale = 1:27.3

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

			-										
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.29	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC201	5/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%
LUMBER TOP CHORD 3OT CHORD BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Structural wood shea 5-11-0 oc purlins. Rigid ceiling directly bracing. (size) 2=4-9-10, Max Horiz 2=-68 (LC Max Uplift 2=-22 (LC Max Grav 2=213 (LC	athing directly applie applied or 10-0-0 or 4=4-9-10 : 8) : 10), 4=-22 (LC 11) C 1), 4=213 (LC 1)	7) ed or 8) 9) 5 10	* This truss I on the bottor 3-06-00 tall I chord and ar All bearings Provide mec bearing plate 4 and 22 lb u) This truss is International R802.10.2 a) See Standar Detail for Co	has been designe m chord in all area by 2-00-00 wide w ny other members are assumed to b chanical connectic e capable of withs uplift at joint 2. designed in acco Residential Code nd referenced sta d Industry Piggyb nnection to base	ed for a liv as where will fit betw s. be User Do on (by othe standing 2 ordance wi e sections andard AN back Truss truss as a	e load of 20.0 a rectangle veen the botto efined . ers) of truss t 2 lb uplift at j ith the 2015 R502.11.1 a ISI/TPI 1. s Connection applicable, or	Opsf om to ioint and					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	10	consult quali	ified building desig Standard	gner.							
TOP CHORD	1-2=0/12, 2-3=-141/5 4-5=0/12	58, 3-4=-141/58,	-		otanduru								
BOT CHORD	2-4=-13/83												
NOTES													
 Unbalance this design 	ed roof live loads have n.	been considered for											
 Wind: AS(Vasd=103 II; Exp B; and C-C E exposed ; members Lumber D Truss des 	CE 7-10; Vult=130mph Bmph; TCDL=6.0psf; B0 Enclosed; MWFRS (en Exterior (2) zone; cantili- end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO signed for wind loads ir	(3-second gust) CDL=6.0psf; h=30ft; ivelope) exterior zon ever left and right ght exposed;C-C for for reactions shown; L=1.60 h the plane of the tru	Cat. e ss							4		ORTH CA	ROLIN

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.





Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	PB1E	Piggyback	1	1	Job Reference (optional)	163985433

2-4-13

0-6-7

84 Components (Dunn, NC), Dunn, NC - 28334,

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4-9-10



3 12 12 Г

Page: 1



Scale = 1:28.2

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

	, , ,). [<u>=</u> .e <u>=</u> eie : e];	[= 0,0 : 0]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-P	0.11 0.06 0.02	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: 23 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this desigr 2) Wind: ASC Vasd=103 II; Exp B; I and C-C E exposed ; members ; Lumber D0 3) Truss des only. For s see Stand or consult 4) Gable requ 5) Gable stuc 6) This truss chord live	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she: 5-11-0 oc purlins. Rigid ceiling directly bracing. (size) 2=4-9-10, Max Horiz 2=-68 (LC Max Grav 2=138 (LC (LC 3) (lb) - Maximum Com Tension 1-2=0/12, 2-3=-89/49 2-6=-20/49, 4-6=-20, 3-6=-89/22 ad roof live loads have 1. CE 7-10; Vult=130mph mph; TCDL=6.0psf; Bf Enclosed; MWFRS (en ixterior (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 vard Industry Gable En- qualified building desig uires continuous bottor ds spaced at 2-0-0 oc. has been designed for load nonconcurrent wi	athing directly applied applied or 10-0-0 oc 4=4-9-10, 6=4-9-10 8 (1), 4=-37 (LC 11) C 1), 4=138 (LC 1), 6 apression/Maximum 9, 3-4=-79/43, 4-5=0/ /49 been considered for (3-second gust) CDL=6.0pst; h=30ft; welope) exterior zone ever left and right ght exposed;C-C for for reactions shown; U=1.60 in the plane of the true (normal to the face), d Details as applicab gner as per ANSI/TP m chord bearing. r a 10.0 psf bottom th any other live load	7) d or 9) 10 11 =150 LC /12 Cat. e Ss le, 11. Is.	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings : Provide mec bearing plate 2 and 37 lb u 0) This truss is International R802.10.2 ar) See Standar Detail for Co consult quali DAD CASE(S)	as been designed n chord in all area by 2-00-00 wide wi y other members. are assumed to be hanical connection capable of withst plift at joint 4. designed in accor Residential Code nd referenced star d Industry Piggyba nnection to base t fied building desig Standard	I for a live s where ill fit betw be User De h (by oth- anding 3 dance wi sections dard AN ack Truss russ as a ner.	e load of 20.0 a rectangle veen the botto efined . ers) of truss to 2 lb uplift at jc th the 2015 R502.11.1 ar S/TPI 1. s Connection spplicable, or	psf o bint nd				SEA 0363	ROLU 22 E.R. AL	Manuality

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March 4,2024

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	PB2	Piggyback	1	1	Job Reference (optional)	163985434

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:25 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale =	1:42.3
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Loading	:	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.15		TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB Matrix D	0.08	Horz(CT)	0.00	9	n/a	n/a		FT 00%
BCDL		10.0	Code	IRC20	15/TPI2014	Matrix-P							weight: 44 lb	FT = 20%
LUMBER					This truss ha	s been designed fo	r a 10.0) psf bottom						
TOP CHORD	2x4 SP No	o.2			chord live loa	id nonconcurrent w	ith any	other live loa	ds.					
BOT CHORD	2x4 SP No	o.2			7) * This truss h	as been designed	for a liv	e load of 20.0	Opsf					
WEBS	2x4 SP No	o.3			on the bottor	n chord in all areas	where	a rectangle						
OTHERS	2x4 SP No	o.3			3-06-00 tall b	y 2-00-00 wide will	fit betv	veen the botto	om					
BRACING					chord and ar	y other members.		ofinad						
TOP CHORD	2D Structural wood sheathing directly applied or 8) All bearings are assumed to be User Derined .													
	6-0-0 oc p	ourlins, exc	cept end verticals.		bearing plate	capable of withsta	ndina 4	9 lb uplift at i	oint					
BOT CHORD	Rigid celli	ng directly	applied or 10-0-0 oc		2, 40 lb uplift	at joint 6, 14 lb upl	ift at joi	nt 7 and 159	lb					
REACTIONS		20556	0		uplift at joint	8.	,							
REACTIONS	(5120)	2=0-5-5, 0	=0-0-0, 7=0-0-0, 0=0	5-5-5,	This truss is	designed in accord	ance w	ith the 2015						
	Max Horiz	2=166 (LC	; 9)		International	Residential Code s	ections	R502.11.1 a	ind					
	Max Uplift	2=-49 (LC	6), 6=-40 (LC 6), 7=	-14	R802.10.2 ai	d referenced stand	ard AN	ISI/TPI1.						
		(LC 7), 8=	-159 (LC 10)		Detail for Co	a industry Piggybac	CK Trus	s Connection						
	Max Grav	2=111 (LC	C 18), 6=115 (LC 18),	,	consult quali	ied building design	133 83 8 Ar	applicable, of						
		7=264 (LC	; 17), 8=346 (LC 17)		OAD CASE(S)	Standard	0							
FORCES	(lb) - Maxi	mum Com	pression/Maximum			etandara								
		2.2 450/4	40.04.440/405											
TOP CHORD	1-2=0/13,	2-3=-159/1 110 6-0-0	142, 3-4=-143/105, /0 5-6=-121/101											
BOT CHORD	2-8=-60/6	5 7-8=-60/	65 6-7=-60/65											
WEBS	4-7=-190/	58. 3-8=-29	93/208											
NOTES		,											, mmm	1111.
1) Unbalance	ed roof live lo	oads have	been considered for										W'TH CA	ROUL
this design	n.											15	R	- Litte
2) Wind: ASC	CE 7-10; Vul	t=130mph	(3-second gust)										FESS	ON KIL
Vasd=103	Smph; TCDL:	=6.0psf; B0	CDL=6.0psf; h=30ft; (Cat.							2	Z		2 and
II; Exp B; I	Enclosed; M	WFRS (en	velope) exterior zone	Э							-		2	K
and C-C E	xterior (2) z	one; cantile	ever left and right								-	:	SFA	: =
exposed;	and forces &	MWFRS	for reactions shown:								Ξ			
Lumber D	OL=1.60 pla	te arip DO	L=1.60										0363	22 : 3
 Truss des 	signed for wi	nd loads in	the plane of the trus	s							-	0		1 2
only. For	studs expos	ed to wind	(normal to the face),									5	·	airs
see Stand	lard Industry	Gable End	Details as applicabl	le,								25	NGINE	ELIAN
or consult	qualified bu	ilding desig	ner as per ANSI/TPI	l 1.								11	710	CALLIN
4) Gable req	uires continu	Jous bottor	n chord bearing.										11, A. G	ILDIN
5) Gable Stud	bie studs spaced at 4-0-0 oc.													

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



818 Soundside Road Edenton, NC 27932

March 4,2024

A. GILD

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	PB2E	Piggyback	1	1	Job Reference (optional)	163985435

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:26 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:42.3

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-P	0.13 0.05 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	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: 53 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 *Excep 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) 2=8-5-5, 8 10=8-5-5, Max Horiz 2=166 (LC Max Uplift 2=-41 (LC (LC 7), 10 10) Max Grav 2=147 (LC 9=157 (LC 11=203 (I	t* 5-7:2x4 SP No.3 athing directly applie cept end verticals. applied or 10-0-0 oc 8=8-5-5, 9=8-5-5, 11=8-5-5, 12=8-5-5 C 9) C 6), 8=-55 (LC 11), 9 =-82 (LC 10), 11=-8 C 18), 8=153 (LC 18) C 17), 10=177 (LC 17 C 17)	3) 4) 5) 6) 7) 5 8) 9) 18 9) 6 (LC 10 10 10 7), 11	Truss design only. For stu see Standarc or consult qu All plates are Gable require Gable studs : This truss ha chord live loa * This truss ha chord live loa * This truss ha on the bottom 3-06-00 tall b chord and an All bearings a) Provide med bearing plate 2, 55 lb uplift joint 10 and 8) This truss is	hed for wind loads ds exposed to wind I Industry Gable Er alified building des 2x4 MT20 unless as continuous botto spaced at 2-0-0 oc s been designed fi d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y 2-00-00 wide wil y other members. are assumed to be nanical connection capable of withsta at joint 8, 18 lb up 86 lb uplift at joint 1 designed in accord	in the pl d (norm nd Deta igner as otherwi or chor or a 10.0 vith any for a liv s where I fit betv User D (by oth anding 4 lift at joi 1. lance w	ane of the tr al to the face Is as applica per ANSI/T se indicated. d bearing. D psf bottom other live loa e load of 20. a rectangle veen the bott efined . ers) of truss 1 lb uplift at nt 9, 82 lb up th the 2015	uss able, PI 1. Opsf tom to joint olift at				-	
FORCES	(lb) - Maximum Com Tension	pression/Maximum	40	R802.10.2 ar	nd referenced stan	dard AN	ISI/TPI 1.	anu					
TOP CHORD	1-2=0/13, 2-3=-156/ 4-5=-145/146, 5-6=- 8-12=0/0, 7-8=-30/3	125, 3-4=-134/106, 142/143, 6-7=-47/63 0	, ,	Detail for Cor consult qualif	nection to base tri ied building desigr	uss as a ner.	applicable, or	r					un.
BOT CHORD	2-11=-48/53, 10-11= 8-9=-48/53	-48/53, 9-10=-48/53	, LC	DAD CASE(S)	Standard							"TH CA	RO
WEBS	5-9=-118/69, 4-10=- 6-8=-142/98	148/107, 3-11=-168/	118,							6	in	O. FESS	De Vill
NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103 II; Exp B; and C-C E exposed ; members Lumber D	ed roof live loads have n. CE 7-10; Vult=130mph imph; TCDL=6.0psf; B Enclosed; MWFRS (er Exterior (2) zone; cantil end vertical left and ri and forces & MWFRS OL = 1.60 plate grip DC	been considered for (3-second gust) CDL=6.0psf; h=30ft; ivelope) exterior zon lever left and right ght exposed;C-C for for reactions shown; b=1 60	Cat. e							CONTRACTOR OF CONTRACTOR		SEA 0363	L 22 EEREKTUU

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G mmm March 4,2024

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	PB3	Piggyback	9	1	Job Reference (optional)	163985436

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:26 ID:4C_?jOk7l8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale =	1:42.3
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Loading TCLL (roof) TCDL BCLL	(psf) 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.21 0.09 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code	IRC2015	5/TPI2014	Matrix-P		- (-)					Weight: 43 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS DTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood sh 6-0-0 oc purlins, e Rigid ceiling directl bracing. (size) 2=8-3-5, 9=8-3-5 Max Horiz 2=167 (L Max Uplift 2=-48 (L (LC 7), 8	eathing directly applie ccept end verticals. y applied or 10-0-0 oc 6=8-3-5, 7=8-3-5, 8= C 9) C 6), 6=-41 (LC 6), 7= =-159 (LC 10) C 400 (C 10)	6) 7) ed or 8) 9) 5 8-3-5, 10 =-17 11	This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide mecl bearing plate 2, 41 lb uplift uplift at joint :) This truss is International R802.10.2 ar) See Standard Detail for Con	s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members. are assumed to be nanical connection capable of withsta at joint 6, 17 lb upl 8. designed in accord Residential Code s nd referenced stand d Industry Piggybar nection to base fir	or a 10.0 rith any for a liv where l fit betv User D (by oth nding 4 lift at joi ance w sections dard AN ck Trus uss as a	D psf bottom other live loa e load of 20.0 a rectangle veen the bottu efined . ers) of truss t 8 lb uplift at j nt 7 and 159 ith the 2015 i R502.11.1 a ISI/TPI 1. s Connection applicable, or	ids. Opsf om oint Ib						
FORCES	7=258 (L	.C 17), 8=346 (LC 17)	,,) LC	consult qualit CAD CASE(S)	ied building design Standard	ier.								
FURCES	Tension	npression/maximum												
TOP CHORD	1-2=0/13, 2-3=-160	/141, 3-4=-143/102,												
BOT CHORD WEBS	2-8=-62/67, 7-8=-6 4-7=-186/61, 3-8=-	2/67, 6-7=-62/67 294/209												
NOTES													11111	
 Unbalance this design Wind: ASC Vasd=103 II; Exp B; and C-C E exposed; members Lumber Di Truss des only For 	ed roof live loads hav CE 7-10; Vult=130mp imph; TCDL=6.0psf; I Enclosed; MWFRS (Exterior (2) zone; canl end vertical left and r and forces & MWFRS OL=1.60 plate grip D signed for wind loads studs exposed to win	e been considered for h (3-second gust) 3CDL=6.0psf; h=30ft; nvelope) exterior zon ilever left and right ight exposed;C-C for 5 for reactions shown; DL=1.60 in the plane of the tru d (normal to the face)	Cat. e ss							Walling		SEA 0363	HO(11111	Manning

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.

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

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A. GILD

March 4,2024

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	PB6	Piggyback	13	1	Job Reference (optional)	163985437

Scale = 1:38.9

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:26 ID:4C_?jOk7l8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



late Offsets (X, Y): [2:0-3-13,0-1-8], [6:0-3-13,0-1-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 55 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
OTHERS	2x4 SP N	0.3
BRACING		
TOP CHORD	Structura	wood sheathing directly applied or
	6-0-0 oc p	ourlins.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=12-4-11, 6=12-4-11, 8=12-4-11,
		9=12-4-11, 10=12-4-11
	Max Horiz	2=-123 (LC 8)
	Max Uplift	2=-27 (LC 6), 6=-3 (LC 7), 8=-146
		(LC 11), 10=-147 (LC 10)
	Max Grav	2=118 (LC 18), 6=102 (LC 1),
		8=322 (LC 18), 9=255 (LC 1),
		10=322 (LC 17)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	0.0.115/05.0.1.101/107
TOP CHORD	1-2=0/13,	2-3=-115/95, 3-4=-134/107,
	4-5=-123/	103, 5-6=-89/55, 6-7=0/13
BOICHORD	2-10=-34/	83, 9-10=-34/83, 8-9=-34/83,
NEDO	0-0=-34/0	
WEDS	4-9=-170/	5, 3-10=-201/100, 5-0=-201/100
NOTES		
 Unbalance this dosign 	ed roof live l	oads have been considered for

- Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; 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=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 7) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be User Defined .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 3 lb uplift at joint 6, 147 lb uplift at joint 10 and 146 lb uplift at joint 8.
- 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.
 See Standard Industry Piggyback Truss Connection
- Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	PB6E	Piggyback	1	1	Job Reference (optional)	163985438

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:26 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [2:0-3-13,0-1-8], [8:0-3-13,0-1-8]

Scale = 1:37.2

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-S	0.05 0.04 0.04	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 64 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=12-4-1 11=12-4- 13=12-4- Max Horiz 2=-123 (L Max Uplift 2=-15 (LC 14=-88 (L Max Grav 2=121 (LC 10=203 (I 12=144 (I) 14=203 (I) 1-2=0/13, 2-3=-108/ 4-5=-103/110, 5-6=- 7-8=-80/52, 8-9=0/1 2-14=-46/94, 13-14= 11-12=-46/94, 13-14= 11-12=-46/94, 10-11 5-12=-103/10, 4-13= 6-11=-136/97, 7-10= ed roof live loads have n.	athing directly applie applied or 10-0-0 oc 1, 8=12-4-11, 10=12- 11, 12=12-4-11, 11, 14=12-4-11 C 8) : 6), 10=-88 (LC 11), C 10) C 18), 8=113 (LC 1), C 18), 11=172 (LC 1), C 18), 11=172 (LC 1), C 18), 11=172 (LC 1), C 18), 11=172 (LC 1), C 17) pression/Maximum 92, 3-4=-92/67, 103/110, 6-7=-61/40 3 -46/94, 8-10=-46/9 -137/98, 3-14=-160/ -160/110 been considered for	2) d or 3) 4-11, 4) 5) 5) 7), 8), 7), 9) 10 4, 110, 12 LC	Wind: ASCE Vasd=103mp II; Exp B; Enr and C-C Exte exposed ; en members and Lumber DOL Truss desigr only. For stu see Standarc or consult qu All plates are Gable studs : This truss ha chord live loa * This truss ha chord and an All bearings a) Provide med bearing plate 2, 73 lb uplift at joint 11 an) This truss is o International R802.10.2 ar) See Standard Detail for Cor consult qualifi	7-10; Vult=130mpf h; TCDL=6.0psf; B closed; MWFRS (e erior (2) zone; canti d vertical left and ri d forces & MWFRS =1.60 plate grip DC end for wind loads i ds exposed to wind l Industry Gable Er alified building desi 2x4 MT20 unless i es continuous botto spaced at 2-0-0 oc, s been designed fo d nonconcurrent w as been designed for d nonconcurrent w d s8 lb uplift at join designed in accord Residential Code s d referenced stand d Industry Piggybao nection to base tru ied building design Standard	n (3-sec CDL=6 nvelope lever le ght exp for rea DL=1.60 n the pl d (norm d Detai gner as otherwi- im chor or a 10.0 ith any for a liv where fit betw User Dr (by oth nding 1 blift at jo t 10. ance wi- sections fard AN ck Truss as a a er.	ond gust) .0psf; h=30ft;) exterior zor ft and right osed;C-C for ctions shown) ane of the tru al to the face; Is as applical ; per ANSI/TF se indicated. d bearing.) psf bottom other live loa e load of 20.0 a rectangle recen the bottor ereen the bottor sers) of truss t 5 lb uplift at j bint 14, 72 lb th the 2015 R502.11.1 a SI/TPI 1. s Connection pplicable, or	c Cat. ne ; uss), ble, PI 1. ds. opsf om ooint uplift nd		Manutal Manutal States of		SEA 03632		Mamming

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G minin March 4,2024

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	V8	Valley	1	1	Job Reference (optional)	163985439

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:27 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.9

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2) 2015/TPI2014	CSI TC BC WB Matrix-S	0.42 0.20 0.11	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 73 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (size) 1=11-2-1, 9=11-2-1. Max Horiz 1=300 (LC Max Uplift 1=-45 (LC (LC 10), S 10), 11=-45 (LC 8=178 (LC 10=147 (LC))	ot* 8-5:2x4 SP No.2 athing directly applied cept end verticals. applied or 10-0-0 oc 6-7 , 7=11-2-1, 8=11-2-1, 10=11-2-1, 11=11-2- C 7) C 6), 7=-67 (LC 9), 8=- 9=-72 (LC 10), 10=-64 104 (LC 10) C 18), 7=88 (LC 17), C 17), 9=179 (LC 17), LC 17), 11=248 (LC 1	d or -1 -79 + (LC	 All plates are Gable require Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Provide mec bearing plate 1, 67 lb uplift joint 9, 64 lb This truss is International R802.10.2 ar LOAD CASE(S) 	2 2x4 MT20 unless es continuous bott spaced at 2-0-0 o is been designed ad nonconcurrent as been designed n chord in all area by 2-00-00 wide w by other members are assumed to be hanical connection capable of withst at joint 7, 79 lb uj uplift at joint 10 ar designed in accor Residential Code nd referenced star Standard	s otherwit tom chor c. for a 10.1 with any d for a liv s where ill fit betw e User D n (by oth anding 4 blift at join nd 104 lb dance w sections ndard AN	se indicated. d bearing. D psf bottom other live load e load of 20.0 a rectangle veen the botto efined . ers) of truss tr 5 lb uplift at joint it 8, 72 lb uplif uplift at joint ith the 2015 s R502.11.1 a JSI/TPI 1.	ds. ppsf om opint ift at 11. nd					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-279/187, 2-3=- 4-5=-180/120, 5-6=-	224/142, 3-4=-191/12 123/116, 6-7=-58/34	21,									min	0.00
BOT CHORD	1-11=-132/145, 10-1 9-10=-132/145 8-9=	1=-132/145, =-132/145_7-8=-132/1	45									TH CA	ROUL
WEBS	5-8=-154/83, 4-9=-1 2-11=-191/132	57/117, 3-10=-119/84	1,							4	i	OFES	N.
NOTES										-		:0	

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

Communited in the second THIN WITH THE SEAL 036322 G١ minim March 4,2024



Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	V9	Valley	2	1	Job Reference (optional)	163985440

6-4-13

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:27 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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8-6-1 2x4 I 3 2x4 🛛 2 6-4-13 912 91 0-0-4 4

5

2x4 II 8-6-1

2x4 🍬

6

2x4 II

Scale - 1:39.8

Loading TCLL (roof) TCDL	(psf 20. 10.) Spacing D Plate Grip DO Lumber DOL	2-0- L 1.15 1.15	-0 5 5		CSI TC BC	0.63	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0	0* Rep Stress Inc 0 Code	r YES	5 5 2015/1	FPI2014	WB Matrix-P	0.08	Horiz(TL)	0.00	4	n/a	n/a	Weight: 41 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood 6-0-0 oc purlins, Rigid ceiling dire bracing. (size) 1=8-6 Max Horiz 1=225 Max Uplift 1=-14 (LC 11 Max Grav 1=166 5=471	sheathing directly a except end vertical ctly applied or 10-0 (LC 7) (LC 6), 4=-50 (LC 7) (LC 18), 4=186 (LC (LC 17)	oplied or s. 0 oc), 5=-180 2 17),	6) * (7) / 8) F 5 9) * F LOA	* This truss I on the bottor 3-06-00 tall I chord and at All bearings Provide mec bearing plate 1, 50 Ib uplif This truss is International R802.10.2 a D CASE(S)	has been desig m chord in all a by 2-00-00 wid hy other memb are assumed in thanical conne- e capable of wit t at joint 4 and designed in ac Residential Cond referenced Standard	gned for a liv areas where le will fit betw bers, with BC to be User D ction (by oth ithstanding 1 180 lb uplift ccordance w ode sections standard AN	e load of 20. a rectangle veen the bott DL = 10.0ps efined . ers) of truss 4 lb uplift at at joint 5. th the 2015 R502.11.1 a ISI/TPI 1.	Opsf iom if. to joint and					
FORCES	(lb) - Maximum (Compression/Maxim	um											

TOP CHORD 1-2=-198/164, 2-3=-159/93, 3-4=-109/67 BOT CHORD 1-5=-103/112, 4-5=-103/112 WEBS 2-5=-349/253

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) 1) Vasd=103mph; 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=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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C

CAR



Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP	
2400622-09192	V10	Valley	2	1	Job Reference (optional)	163985441

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:27 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.3

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/T	PI2014	Matrix-P							Weight: 26 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood sheat 5-10-6 oc purlins, ex Rigid ceiling directly bracing. (size) 1=5-10-1, Max Horiz 1=149 (LC Max Uplift 1=-72 (LC (LC 10) Max Grav 1=97 (LC	athing directly applie xcept end verticals. applied or 10-0 oc 4=5-10-1, 5=5-10-1 7) 8), 4=-40 (LC 7), 5= 10), 4=145 (LC 17),	6) * C 3 7) / 8) F dor 1 9) T F LOA 5-145	⁺ This truss h on the botton 3-06-00 tall b chord and an All bearings a Provide mecl opearing plate 1, 40 lb uplift This truss is on ternational R802.10.2 ar D CASE(S)	as been design n chord in all ar by 2-00-00 wide yo other member are assumed to capable of witi at joint 4 and 1 designed in acc Residential Co nd referenced s Standard	need for a live eas where will fit betw ers. be User Du tion (by othe hstanding 7 45 lb uplift cordance wi de sections trandard AN	e load of 20. a rectangle een the bott errs) of truss : 2 Ib uplift at j at joint 5. th the 2015 R502.11.1 a SI/TPI 1.	0psf om to joint and					

FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-152/123, 2-3=-131/68, 3-4=-114/58
BOT CHORD	1-5=-72/78, 4-5=-72/78
WEBS	2-5=-287/215

5=345 (LC 17)

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) 1) Vasd=103mph; 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=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1111111 Verman MULTINI, SEAL 036322 G mmm March 4,2024



Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP		
2400622-09192	V11	Valley	2	1	Job Reference (optional)	163985442	

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:27 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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2-4-13

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2x4 🍫

3-2-1

Scale = 1:22.3

Loading TCLL (roof) TCDL		(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.12	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
BCDL		10.0	Code	IRC2015	5/TPI2014	Matrix-P	0.00		0.00	3	n/a	n/a	Weight: 12 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wo 3-2-6 oc purl Rigid ceiling bracing. (size) 1= Max Horiz 1= Max Uplift 1= Max Gray 1=	ood she lins, exi directly =3-2-1, 3 =74 (LC =-5 (LC =105 (LC	athing directly applie cept end verticals. applied or 10-0-0 oc 3=3-2-1 7) 10), 3=-34 (LC 10) 2 1). 3=-18 (LC 17)	8) 9) ed or LC	Provide mec bearing plate and 34 lb up This truss is International R802.10.2 a DAD CASE(S)	chanical connection e capable of withs lift at joint 3. designed in acco Residential Code nd referenced sta Standard	on (by othe standing 5 ordance wi e sections andard AN	ers) of truss t Ib uplift at jo ith the 2015 R502.11.1 a ISI/TPI 1.	to int 1 ind					
FORCES	(lb) - Maximu Tension	um Com	pression/Maximum											
TOP CHORD BOT CHORD	1-2=-66/53, 2 1-3=-36/39	2-3=-92	/49											
NOTES 1) Wind: AS Vasd=100 II; Exp B; and C-C exposed members Lumber E	CE 7-10; Vult= 3mph; TCDL=6. Enclosed; MWI Exterior (2) zon; end vertical lei and forces & M OOL=1.60 plate	130mph .0psf; B0 FRS (en e; cantil ft and rig ft and rig 1WFRS grip DO	(3-second gust) CDL=6.0psf; h=30ft; ivelope) exterior zon ever left and right ght exposed;C-C for for reactions shown; L=1.60	Cat. e									NITH CA	BOW

- Truss designed for wind loads in the plane of the truss 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members. 7) All bearings are assumed to be User Defined .



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP		
2400622-09192	V12	Valley	1	1	Job Reference (optional)	163985443	

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:27 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:28.7

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-P	0.46 0.28 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: 22 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 5-4-6 oc purlins, exa Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 or	8) 9) ed or LC	Provide mec bearing plate and 62 lb upl This truss is International R802.10.2 ar DAD CASE(S)	hanical connection capable of withst ift at joint 3. designed in accor Residential Code nd referenced star Standard	n (by othe anding 8 dance wi sections ndard AN	ers) of truss to Ib uplift at joi th the 2015 R502.11.1 at ISI/TPI 1.	o nt 1 nd					
REACTIONS	(size) 1=5-4-1, 3 Max Horiz 1=135 (LC Max Uplift 1=-8 (LC Max Grav 1=191 (LC	3=5-4-1 C 7) 10), 3=-62 (LC 10) C 1), 3=216 (LC 17)											
TOP CHORD	(lb) - Maximum Com Tension 1-2=-121/96, 2-3=-10	pression/Maximum 68/90											
BOT CHORD	1-3=-65/71												
NOTES 1) Wind: AS Vasd=103 II; Exp B; and C-C E exposed ; members Lumber D 2) Truss der only. For see Stanc or consult 3) Gable rec	CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B0 Enclosed; MWFRS (en Exterior (2) zone; cantil- ; end vertical left and rig and forces & MWFRS 0CL=1.60 plate grip DO signed for wind loads ir studs exposed to wind dard Industry Gable Enc t qualified building desig uires continuous bottor	(3-second gust) CDL=6.0psf; h=30ft; ivelope) exterior zor ever left and right ght exposed; C-C for for reactions shown L=1.60 In the plane of the tru (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing.	Cat. e ss ss ole, Pl 1.								The second se	ORTH CA	ROLIN

- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be User Defined .

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Colston 3 car Bonus Full Frnt Prch RCP		
2400622-09192	V13	Valley	1	1	Job Reference (optional)	163985444	

Run: 8,73 S Feb 22 2024 Print: 8,730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 01 12:52:28 ID:4C_?jOk7I8eo4Te8?OXgvBybTPY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:48.5

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-MR	0.54 0.40 0.17	DEFL Vert(LL) Vert(TL) Horiz(TL)	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: 42 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shea 3-11-8 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (size) 4=3-11-8, Max Horiz 6=106 (LC Max Uplift 4=-92 (LC 6=-70 (LC Max Grav 4=82 (LC 6=293 (LC	athing directly applie ccept end verticals. applied or 10-0-0 or 3-4 5=3-11-8, 6=3-11-8 (10) 10), 5=-255 (LC 10 8) 17), 5=236 (LC 17), (10)	6) 7) ed or 8) 9) c 10 , 10	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall t chord and ar All bearings. Provide mec bearing plate 6, 92 lb upliff) This truss is International R802.10.2 ar AD CASE(S)	as been designed ad nonconcurrent has been designe in chord in all area by 2-00-00 wide w hy other members are assumed to b hanical connectio capable of withs at joint 4 and 25 designed in acco Residential Code nd referenced sta Standard	for a 10.0 with any d for a liv as where will fit betw as e SP No. on (by oth tanding 7 5 lb uplift rdance wi e sections indard AN	0 psf bottom other live load e load of 20.0 a rectangle recen the botto 2. ers) of truss t 0 lb uplift at jr at joint 5. th the 2015 R502.11.1 a SI/TPI 1.	ds.)psf om oint nd					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-6=-164/107, 1-2=- 3-4=-75/67	170/141, 2-3=-40/28	3,										
BOT CHORD	5-6=-28/22, 4-5=-28/	22											

WEBS

NOTES

Wind: ASCE 7-10; Vult=130mph (3-second gust) 1) Vasd=103mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2-5=-228/210

- Truss designed for wind loads in the plane of the truss 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 3)
- 4) Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web). 5) Gable studs spaced at 2-0-0 oc.





