Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	158014091	
23040054-01	A	Attic	2	1	Job Reference (optional)		

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:04 Page: 1 ID:10_HgV8z6M1MopLAmm3ctPzN8Er-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10-8 47-1-8 5-8-13 11-5-0 16-5-12 20-0-0 24-11-5 28-9-4 34-0-15 40-0-3 46-3-0 5-8-13 5-8-2 5-0-12 3-6-4 4-11-5 3-9-15 5-3-11 5-11-4 6-2-13 0-10-8 0-10-8 5x6= 5x8= 6 48 7 4x6 🚽 49 g47 6¹² 8 5x8。 Ø-9-11 5x8 ≠ 46 50 3x6**≈** 38 37 ⁹10 454 4x5 I 6x8= 3x8= 11-0-0 11-5-0 4x8 🞜 12 2x4 🥠 ģ 3 11 51 4x5 u ¹²13[°]+⊤ α 9-9-26 30 ċ 35 52 53 34 33 31 54 28 26 23 17 16 15 55 56 14 3x8= 20 5x6 WB = 2x4 u 3x8= 3x6= 4x6= 3x8= 4x5= 2x4 II 5x8 u 2x4 u 5x8 u 2x4 u 3x8= 17-7-5 20-11-, 16-7-8 19-8-12 23-2-2 5-12 18-7-3 22-0-14 25-1 4 13 1-1-3 1-1-3 1-1-3 1-2 3x6= 24-345= 28-7-8 28-9-4 26-7-13 25-6-427-7-11 30-4-0 14-5-0 16-5-12 18-7-3 8-5-8 37-2-0 46-3-0 1-1-90-11-13 2-0-12 0-11-13 8-5-8 5-11-8 6-10-0 9-1-0 1-1-3 1-2-150-11-13 1-6-12 Scale = 1:87.8 Plate Offsets (X, Y): [2:0-2-8,0-1-12], [4:0-3-12,0-3-0], [6:0-3-0,0-2-0], [7:0-6-0,0-2-8], [23:0-3-8,0-1-8], [32:Edge,0-2-4], [37:0-4-0,0-2-8], [40:0-4-0,0-1-12] 2-0-0 CSI DEFL L/d PLATES GRIP Loading (psf) Spacing in (loc) l/defl TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.79 Vert(LL) -0.50 33-35 >608 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.90 Vert(CT) -0.80 33-35 >379 180 WB 10.0 Rep Stress Incr YES 0.93 Horz(CT) 0.12 12 n/a n/a 0.0 IRC2018/TPI2014 Matrix-MSH -0.31 18-32 360 Code Attic >479 10.0 Weight: 338 lb FT = 20% LUMBER BOT CHORD 35-36=-231/2789, 33-35=-115/2734, 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 31-33=-10/2605, 28-31=0/2973, TOP CHORD 2x4 SP 2400F 2 0F 26-28=-93/2584, 23-26=-769/1912 BOT CHORD 2x4 SP 2400F 2.0E *Except* 32-18:2x4 SP

20-23=-1648/862, 17-20=-1140/588,

30-32=-620/158, 29-30=-889/661,

27-29=-889/661, 25-27=-479/1870

24-25=-479/1870 22-24=-479/1870

21-22=-261/3673, 19-21=-261/3673,

10-16=-639/261, 10-14=-47/635,

5-37=-2853/185, 8-38=-71/881,

31-32=-336/277, 30-31=-406/297,

28-30=-374/130, 17-18=-1751/59,

17-19=-237/1383, 19-20=-1515/201

4-39=-163/1277. 10-40=-2362/159

Unbalanced roof live loads have been considered for

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;

Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-9-0, Interior (1) 3-9-0 to 13-5-8, Exterior(2R) 13-5-8 to 31-5-13, Interior (1) 31-5-13 to 42-6-0, Exterior(2E) 42-6-0 to 47-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces &

MWFRS for reactions shown; Lumber DOL=1.60 plate

Wind: ASCE 7-16; Vult=130mph (3-second gust)

11-14=-362/180, 37-39=-131/1680,

37-38=-1907/135, 38-40=-2708/193,

18-19=0/1618

WEBS

NOTES

this design.

grip DOL=1.60

1)

16-17=0/1854. 14-16=0/2417. 12-14=0/2891.

3-35=-46/200, 4-35=-28/340, 4-33=-738/206,

32-33=-38/726, 32-39=-8/1047, 5-39=0/1503,

16-18=0/864, 18-40=-345/188, 8-40=-625/97,

3-36=-2772/72, 6-37=0/283, 7-38=-314/55,

7-37=-92/897, 20-21=-409/0, 28-29=-114/0,

27-28=-40/669, 26-27=-1108/0, 25-26=0/408, 20-22=-1373/0, 22-23=0/1701, 23-24=-708/0, Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10

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

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

Provide adequate drainage to prevent water ponding.

All plates are 3x5 MT20 unless otherwise indicated. 7)

- 8) 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 9) 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.
- 10) Ceiling dead load (5.0 psf) on member(s). 37-39, 37-38, 38-40; Wall dead load (5.0psf) on member(s).32-39, 18-40



818 Soundside Road Edenton, NC 27932

continued	on	page	2

TCDL

BCLL

BCDL

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

WFBS

JOINTS

FORCES

TOP CHORD

No.1

2x4 SP No.3

bracing.

Max Grav

Tension

1 Row at midpt

1 Brace at Jt(s): 37,

Max Horiz 36=-177 (LC 19)

38, 30, 19, 27, 22

2x4 SP No.3 *Except* 5-33:2x4 SP No.1,

Structural wood sheathing directly applied or

12=0-5-8, 20=0-5-8, 36=0-5-8

12=1763 (LC 46), 20=2210 (LC

4-33, 10-16, 3-36, 10-40

3-9-1 oc purlins, except end verticals, and

Rigid ceiling directly applied or 6-0-0 oc

Max Uplift 12=-4 (LC 14), 36=-120 (LC 14)

38), 36=2074 (LC 36)

(Ib) - Maximum Compression/Maximum

1-2=0/27, 2-3=-585/108, 3-5=-3977/232,

5-6=-1361/149, 6-7=-1213/152,

10-11=-3060/80, 11-12=-3264/88

7-8=-850/148, 8-10=-622/248,

12-13=0/23, 2-36=-453/144

2-0-0 oc purlins (6-0-0 max.): 6-7.

8-16,39-40:2x4 SP No.2

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Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	150044004	
23040054-01	A	Attic	2	1	Job Reference (optional)	158014091	

- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 29-30, 27-29, 25-27, 24-25, 22-24, 21-22, 19-21, 18-19
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 36 and 12. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:04 ID:1o_HgV8z6M1MopLAmm3ctPzN8Er-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	A1	Piggyback Base	2	1	Job Reference (optional)	158014092

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:08 ID:ICEWaVBE3B7jrh1jDaFICezN8P7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



BCDL	10.0	0000		12011				Weight: 281 lb FT	= 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.2 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep No.2	t* 17-19:2x4 SP No.1 t* 16-6,15-7,16-7:2x4 5	2) W Va Ca SP ZC 3- (1	/ind: ASCE asd=103mp at. II; Exp B one and C-0 -9-0 to 13-5) 31-5-13 to	7-16; Vult=130mph (3-sec h; TCDL=6.0psf; BCDL=6 ; Enclosed; MWFRS (enve C Exterior(2E) -0-10-8 to 3 -3, Exterior(2E) 13-5-3 to 3 0 41-7-8, Exterior(2E) 41-7 ver left and right envosed	ond gust) .0psf; h=25ft; !lope) exterior ·9-0, Interior (1) 31-5-13, Interior -8 to 46-3-0 end vertical left	 13) This truss is design International Resign R802.10.2 and refinition of the orientation of bottom chord. 15) Attic near choolean 	ned in accordance with lential Code sections f erenced standard ANS presentation does not of the purlin along the t	the 2018 R502.11.1 and SI/TPI 1. depict the size top and/or
TOP CHORD	2-2-0 oc purlins, ex 2-0-0 oc purlins (6-0	athing directly applied cept end verticals, and I-0 max.): 6-7.	or ar M	nd right exp	osed;C-C for members an eactions shown; Lumber E	d forces & OL=1.60 plate	LOAD CASE(S) Star	ndard	
BOT CHORD	Rigid ceiling directly bracing. 1 Row at midpt	applied or 6-0-0 oc 5-16, 8-15, 6-16, 7-15	3) T(Pl	CLL: ASCE	7-16; Pr=20.0 psf (roof LL .15); Pf=20.0 psf (Lum DO	: Lum DOL=1.15 L=1.15 Plate			
REACTIONS	(size) 11= Mech 19=0-5-8	anical, 15=0-5-8,	C: 4) Ui	oL=1.15); 1 s=1.00; Ct= nbalanced :	s=1.0; Rough Cat B; Fully :1.10 snow loads have been con	Exp.; Ce=0.9;			
	Max Horiz 19=-163 (Max Uplift 11=-107 (19=-136 (LC 19) LC 15), 15=-149 (LC 1 LC 14)	de 5), 5) Tr Ioi	esign. his truss ha ad of 12.0 r	s been designed for greate	er of min roof live			
	Max Grav 11=664 (L 19=987 (L	LC 38), 15=2842 (LC 4 LC 36)	6), ov 6) Pr	verhangs no rovide adec	on-concurrent with other liv juate drainage to prevent v	e loads. vater ponding.			
FORCES	(lb) - Maximum Com Tension	pression/Maximum	7) Tł ch	his truss ha hord live loa	s been designed for a 10.0 Id nonconcurrent with any	<pre>psf bottom other live loads</pre>		annun	
TOP CHORD	1-2=0/27, 2-3=-506/ 5-6=-274/190, 6-7=- 8-10=-306/144, 10-1 2-19=-441/176	155, 3-5=-1116/199, 151/185, 7-8=0/790, 1=-950/186,	8) * ⁻ or 3- ch	This truss h the botton 06-00 tall b ord and an	as been designed for a live n chord in all areas where y 2-00-00 wide will fit betw v other members. with BC	\Rightarrow load of 20.0psf a rectangle reen the bottom DL = 10.0psf.	The second	OR FESSIO	Linii.
BOT CHORD	18-19=-253/1076, 10 15-16=-592/247, 13- 12-13=-80/801, 11-1	6-18=-113/684, -15=-60/193, 2=-80/801	9) Re 10) Pr be	efer to girde rovide mech earing plate	er(s) for truss to truss conn nanical connection (by othe capable of withstanding 1	ections. ers) of truss to 07 lb uplift at	Sec.	SFAL	
WEBS	3-18=-306/203, 5-18 5-16=-884/240, 8-15 8-13=-1/625, 10-13= 6-16=-385/64, 7-15= 3-19=-817/56, 7-16=	8=-26/668, 5=-1038/234, 740/191, 10-12=0/31 1854/178, 171/1381	joi 11) H [.] 4, cc Th lat	int 11. 10A Simpso onnect truss his connect teral forces	on Strong-Tie connectors r s to bearing walls due to U ion is for uplift only and do	ecommended to PLIFT at jt(s) 15. es not consider		036322	
NOTES 1) Unbalance	ed roof live loads have	been considered for	12) Oi re	ne H2.5A S commende	timpson Strong-Tie connect to connect truss to bearies	tors ng walls due to		A GILF	SEP.IIII
uns design	1.		0			a upint only and		11.	<i>(i, .</i>

April 28,2023



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does not consider lateral forces.

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	A1A	Piggyback Base	2	1	Job Reference (optional)	158014093

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:09 ID:1o_HgV8z6M1MopLAmm3ctPzN8Er-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:84.1

Plate Offsets (X, Y): [2:0-2-8,0-1-12], [6:0-3-0,0-2-0], [7:0-4-0,0-2-8]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC2018	3/TPI2014	CSI TC BC WB Matrix-MSH	0.95 0.80 0.98	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.29 -0.45 0.03	(loc) 17-19 17-19 11	l/defl >999 >664 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 282 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 *Except 2x4 SP No.3 *Except No.2 Structural wood shea 2-2-0 oc purlins, exc 2-0-0 oc purlins (6-0- Rigid ceiling directly bracing. 1 Row at midpt	t* 20-18:2x4 SP No.1 t* 17-6,17-7,16-7:2x4 athing directly applied cept end verticals, an -0 max.): 6-7. applied or 6-0-0 oc 5-17, 6-17, 7-16, 8-1	2) HSP dor dd 3) 6	Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-0 3-9-0 to 13-5- (1) 31-5-13 to zone; cantilev and right exp MWFRS for r grip DOL=1.6 TCLL: ASCE Plate DOL=1 DOL=1.5).1	7-16; Vult=130mpl h; TCDL=6.0psf; E ; Enclosed; MWFF C Exterior(2E) -0-1 -3, Exterior(2R) 13 0 42-6-0, Exterior(2 vore left and right ex- osed;C-C for mem- reactions shown; Li 	n (3-sec 8CDL=6 8S (envi 0-8 to 3 -5-3 to 3 -5-3 to 3 2E) 42-6 cposed bers an umber I (roof LL um DC B: Fully	cond gust) .0psf; h=25ft; elope) exterior -9-0, Interior () 31-5-13, Inter -0 to 47-1-8 end vertical d forces & DOL=1.60 pla .: Lum DOL=' DL=1.15 Plate Exp. $Ce=0$ °	or (1) ior left tte 1.15	12) Gra or th bott 13) Attic LOAD (phical p ne orient om chor c room c c ASE(S)	urlin re ation d d. hecke Sta	epresentation doe of the purlin along d for L/360 deflec ndard	s not depict the size , the top and/or :tion.
REACTIONS	(size) 11=0-5-8, Max Horiz 20=-177 (I Max Uplift 11=-127 (I 20=-138 (I Max Grav 11=709 (L 20=993 (L	16=0-5-8, 20=0-5-8 LC 19) LC 15), 16=-143 (LC LC 14) C 38), 16=2841 (LC C 36)	4) 15), 5) 46),	Cs=1.00; Ct=1.10 Unbalanced snow loads have been considered for this design. This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.									
TOP CHORD	20=993 (LC 36) (lb) - Maximum Compression/Maximum Tension 1 -2=0/27, 2-3=-504/155, 3-5=-1127/202, 5-6=-277/190, 6-7=-155/193, 7-8=0/789, 8-10=-305/150, 10-11=-964/190, 11-12=0/23, 2 00 - 202(75)			 Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 2 00 00 trut live 20 00 unii fit bottom 							- AN	TH CA	ROUT
BOT CHORD	19-20=-248/1086, 17 16-17=-591/255, 14- 13-14=-70/797, 11-1	7-19=-108/695, 16=-62/193, 3=-70/797	9)	chord and an H10A Simpso connect truss	y other members, on Strong-Tie conn to bearing walls d	with BC ectors i ue to U	DL = 10.0psf recommended PLIFT at jt(s)	d to 16.		4	Ù	2 TOF	No. Martin
WEBS	3-19=-306/202, 5-19 5-17=-894/240, 6-17 7-17=-170/1380, 7-1 8-16=-1037/234, 8-1 10-14=-735/188, 10-	=-26/668, =-390/63, 6=-1854/170, 4=0/624, 13=0/313, 3-20=-835	10 5/58	This connection is for uplift only and does not consider lateral forces.)) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 11. This connection is for uplift							L 22		
 NOTES 1) Unbalanced roof live loads have been considered for this design. 				only and does not consider lateral forces. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.									

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April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A		
23040054-01	A2	Piggyback Base	2	1	Job Reference (optional)	158014094	

Run: 8 53 S. Mar. 9 2023 Print: 8 530 S. Mar. 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:09 ID:YP83FSM0U6JZx7t_iCaCO0zN8U3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



11-12=-78/796, 10-11=-78/796 2-17=-317/206, 4-17=-29/676, 4-15=-885/240, 7-14=-1035/234 7-12=-1/625, 9-12=-740/191, 9-11=0/314, 5-15=-389/66, 6-14=-1861/184, 2-18=-909/113, 6-15=-174/1385

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1) this design.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.

This connection is for uplift only and does not consider

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

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Page: 1

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 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 a duss system: plantieter and property incorporate dust using in the overlain of the optimized and property incorporate and begin into the overlain building design. Bracing indicated is to prevent buckling of individual itruss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual itruss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual itruss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual itruss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

lateral forces



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	A2SE	Piggyback Base Structural Gable	1	1	Job Reference (optional)	158014095

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:10 ID:_zcu8QfCkUFbkKPVq6?l54zN8R5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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38<u>-9-7</u> 6-10-5 31-10-6 46-3-0 13-5-3 20-0-0 24-11-5 6-10-5 6-6-13 6-6-13 4-11-5 6-11-1 6-11-1 7-5-9 5x6= 5x6= 8 9 3710 11 7 3x6👟 1238 3x5 🗸 6 12 61 13 3x5 👟 5 394 3x6 🚽 3 15 11-0-0 26 4x5 ≉ 3x5 👟 3x5 II 2 30 16 36 32 40 3x5 II 17 ღ _+-0 ს 1 3x5 25 X 20 19 24 41 2342 22 43 44 18 21 3x6= 4x5 =3x5= 4x6= 5x8= 3x6= 3x5= 3x5= 25-9-0 0-7-15 10-1-12 19-10-4 25-1-1 31-10-6 38-9-7 46-3-0 10-1-12 9-8-8 5-2-13 6-1-6 6-11-1 7-5-9 Scale = 1:79.4 Plate Offsets (X, Y): [8:0-4-0,0-2-8], [11:0-4-0,0-2-8] 2-0-0 CSI DEFL PLATES GRIP Loading (psf) Spacing in (loc) l/defl L/d тс TCLL (roof) 20.0 Plate Grip DOL 1.15 0.75 Vert(LL) -0.28 22-24 >999 240 MT20 244/190 BC Snow (Pf) 20.0 Lumber DOL 1.15 0.79 Vert(CT) -0.44 22-24 >684 180 TCDL 10.0 Rep Stress Incr YES WB 0.94 Horz(CT) 0.03 17 n/a n/a BCLL IRC2018/TPI2014 0.0 Code Matrix-MSH 40.0

BUDL	10	J.0			l	Weight. 341 ID FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.1 *E 2x4 SP No.3 *E SP No.2 2x4 SP No.3 Structural woo 4-9-15 oc purlin 2-0-0 oc purlin	Except* 23-20:2x4 SP No.2 Except* 22-8,22-11,21-11:2x4 d sheathing directly applied or ns, except end verticals, and s (6-0-0 max.): 8-11.	WEBS	2-24=-319/209, 4-24=-31/6 4-30=-893/239, 29-30=-845 28-29=-890/244, 22-28=-92 8-22=-311/54, 22-27=-175/ 26-27=-178/1391, 11-26=-1 11-21=-1801/172, 21-31=-1 31-32=-1016/225, 14-32=-1 14-19=-3/629, 16-19=-746/ 2-25=-913/112, 10-26=-63/ 7-28=-54/18, 6-29=-77/32, 1 2-31=-95/27, 13-32=-25/11	75, 5/220, 28/248, 1341, 185/1416, 1072/245, 1002/219, '196, 16-18=0/315, '14, 9-27=-62/2, 5-30=-25/68, 0	 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, with BCDL = 10.0psf. 11) Refer to girder(s) for truss to truss connections. 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 17. 13) H10A Simpson Strong-Tie connectors recommended to
BOT CHORD	Rigid ceiling di bracing.	rectly applied or 6-0-0 oc	NOTES		•	connect truss to bearing walls due to UPLIFT at jt(s) 21.
WEBS JOINTS	1 Row at midp 1 Brace at Jt(s 27, 29, 30, 31,	t 8-22, 11-21, 2-25, 7-28): 26, 32	 Unbalanced this design. Wind: ASCE Vasd=103m 	roof live loads have been c 7-16; Vult=130mph (3-sec ph; TCDL=6.0psf; BCDL=6.	;onsidered for ;ond gust) .0psf; h=25ft;	This connection is for uplift only and does not consider lateral forces.14) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to
REACTIONS	(size) 17= 25=0 Max Horiz 25=- Max Uplift 17=- 25=- Max Grav 17=0 25=5	Mechanical, 21=0-5-8, D-5-8 171 (LC 19) 103 (LC 15), 21=-155 (LC 15), 113 (LC 14) 653 (LC 36), 21=2847 (LC 44), 334 (LC 34)	Cat. II; Exp I zone and C- 4-9-4 to 13-5 (1) 31-5-13 f zone; cantile and right exp MWFRS for arin DQI =1	B; Enclosed; MWFRS (enve C Exterior(2E) 0-1-12 to 4-5 5-3, Exterior(2R) 13-5-3 to 3 to 41-7-8, Exterior(2E) 41-7 ever left and right exposed ; posed;C-C for members and reactions shown; Lumber E	elope) exterior 9-4, Interior (1) 31-5-13, Interior -8 to 46-3-0 ; end vertical left d forces & DOL=1.60 plate	 UPLIFT at <i>i</i>(s) 25. This connection is for uplift only and does not consider lateral forces. 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
FORCES	(lb) - Maximum Tension	Compression/Maximum	 3) Truss desig anly For str 	ned for wind loads in the pla	ane of the truss	Carl Barrow
TOP CHORD	1-2=-429/102, 5-6=-185/159, 8-9=-143/179, 10-11=-143/17 13-14=0/679, 1 16-17=-966/18	2-4=-1118/194, 4-5=-271/128, 6-7=-157/176, 7-8=-89/181, 9-10=-143/179, 9, 11-12=0/770, 12-13=0/730, 4-16=-295/135, 0, 1-25=-325/107 92, 22,24, 404/676	oniy. For sti see Standar or consult qu 4) TCLL: ASCE Plate DOL= DOL=1.15); Cs=1.00; Ct	uus exposed to wind (normä d Industry Gable End Detaii ualified building designer as E 7-16; Pr=20.0 psf (roof LL 1.15); Pf=20.0 psf (Lum DO Is=1.0; Rough Cat B; Fully =1.10	Is as applicable, s as applicable, per ANSI/TPI 1. : Lum DOL=1.15 IL=1.15 Plate Exp.; Ce=0.9;	SEAL 036322
BOT CHORD	24-25=-251/10 21-22=-598/25 18-19=-75/802	83, 22-24=-104/676, 3, 19-21=-72/180, , 17-18=-75/802	 Unbalanced design. Provide ade All plates are Gable studs 	snow loads have been con quate drainage to prevent w e 2x4 MT20 unless otherwis spaced at 2-0-0 oc.	sidered for this vater ponding. se indicated.	A. GILBER

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2/2/2/ BE-VRE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	A2SE	Piggyback Base Structural Gable	1	1	Job Reference (optional)	158014095
Carter Components (Sanford), Sa	Run: 8.53 S Mar 9 2	023 Print: 8.5	530 S Mar 9	2023 MiTek Industries, Inc. Thu Apr 27 09:18:10	Page: 2	

n: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Indust s, Inc. Thu Apr 27 09:18:10 ID:_zcu8QfCkUFbkKPVq6?l54zN8R5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	A3	Нір	1	1	Job Reference (optional)	158014096

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:11 ID:nT?HrddbFktV9PTF5wJgmKzNA?r-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

0.4-3 ⊤

4x5=

7-1-12 14-0-0 19-7-12 25-6-4 30-11-5 38-2-3 46-3-0 7-1-12 6-10-4 5-7-12 5-10-8 5-5-1 7-2-13 8-0-13 3x10= 5x6= 3x6= 5x6= 2x4 II 3 4 26 27 28 29530 6 7 \boxtimes 6¹² 3x5 💋 5x10👟 **2**5 318 8-0-0 22 ^{23²⁴} 32 ³³34 4x5 🞜 0-0-18 ÷1 Ř ⊠ 13 17 16 1535 14 36 37 1211 10 3x5 u 4x5= 3x5 =3x6= 5x8= 3x6= 2x4 🛛 3x5= 3x5= 25-9-0 || 0-2-12 7-1-12 13-10-4 19-7-12 25-6-4 31-1-1 46-3-0 38-2-3 7-1-12 6-8-8 5-9-8 5-10-8 5-4-1 7-1-1 8-0-13 Scale = 1:79.1 Plate Offsets (X, Y): [1:Edge,0-1-12], [3:0-3-0,0-2-0], [6:0-3-8,0-1-8], [7:0-3-0,0-2-0], [8:0-5-0,0-3-4] CSI TC 2-0-0 DEFL in l/defl L/d PLATES GRIP Loading (psf) Spacing (loc) -0.15 10-21 TCLL (roof) 20.0 Plate Grip DOL 1.15 0.94 Vert(LL) >999 240 MT20 244/190

Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.79	Vert(CT)	-0.30	10-21	>832	180			
TCDL	10.0	Rep Stress Incr	YES		WB	0.93	Horz(CT)	0.02	9	n/a	n/a			
BCLL	0.0*	Code	IRC20	18/TPI2014	Matrix-MSH									
BCDL	10.0											Weight: 274 lb	FT = 20%	
				Wind ASCE	7-16: Vult=130m	nh (3-sec	cond aust)			CASE(S	Sta	ndard		
TOP CHORD	2v4 SP No 2 *Excen	t* 7-8 8-9-2v4 SP No	- - 1	Vasd=103m	h^{-10} , $TCDI = 6.0 \text{psf}$	BCDI =f	0005f: h=25ft:		20/12	0/102(0)		nduru		
BOT CHORD	2x4 SP No 2	1 0,0 0.224 01 10	5.1	Cat. II: Exp I	B: Enclosed: MWF	RS (env	elope) exterio	r						
WEBS	2x4 SP No 3			zone and C-	C Exterior(2E) 0-1	I-12 to 4-	9-4. Interior (1)						
BRACING	274 01 110.0			4-9-4 to 7-5-	8, Exterior(2R) 7-	5-8 to 20	-6-8, Interior (í)						
	Structural wood abo	othing directly opplie	dor	20-6-8 to 24	4-13, Exterior(2R) 24-4-13	3 to 37-5-13,							
TOP CHORD		cent and verticals a	nd	Interior (1) 3	7-5-13 to 41-7-8,	Exterior(2	2E) 41-7-8 to							
	2-2-0 oc purlins, ex	-0 may > 3-7	nu	46-3-0 zone	cantilever left an	d right ex	posed ; end							
	Pigid ceiling directly	applied or 10-0-0 or	_	vertical left a	nd right exposed;	C-C for r	nembers and							
BOT CHOILD	hracing Excent			forces & MV	FRS for reactions	s shown;	Lumber							
	6-0-0 oc bracing: 13	-14 11-13		DOL=1.60 p	ate grip DOL=1.6	0								
WEBS	1 Row at midot	3-14 6-13 7-13 8-1	11 3	B) TCLL: ASCE	7-16; Pr=20.0 ps	sf (roof Ll	_: Lum DOL=1	1.15						
REACTIONS	(size) 9- Mecha	nical 13-0-5-8 18-	-0-5-8	Plate DOL=	.15); Pf=20.0 psf	(Lum DC	DL=1.15 Plate							
REACTIONS	(312e) 3= Mecha Max Horiz 18=-123 (I C 10)	0-0-0	DOL=1.15);	ls=1.0; Rough Ca	t B; Fully	Exp.; Ce=0.9);						
	Max 1 Inlift 9-116 ((15) 13-147 (1 C	15)	Cs=1.00; Ct	=1.10									
	18=-129 (LC 14)	10), 2	 Unbalanced 	snow loads have	been cor	nsidered for th	IIS						
	Max Grav 9=723 (I ((10, 14) (10, 13=2602 (10, 42)	43)	design.										
	18=998 (I	C 34)	10),) Provide ade	quate drainage to	prevent	water ponding	j .						
FORCES	(lb) Maximum Com	procesion/Maximum	ť	 I NIS TRUSS Na 	is been designed	tor a 10.	Upst bottom	40						
FUNCES	Tension	pression/maximum	-		ad nonconcurrent	with any	other live load	us.						
	1_2_1/53/200 2_3_	-806/108 3-1211/	/157) This truss i	as been designe		e rootonglo	psi					CE CONTRACTOR OF	
	4-6=-244/157 6-7=0	1/807 7-9=-1080/248	R 107,	3-06-00 tall	2.00-00 wide w	ill fit boty	a reclarigie	m						
	1-18=-911/166		,	chord and a	v other members	with BC	DI = 10.000	////				"TH UA	ROUT	
BOT CHORD	17-18=-141/315 16-	17=-207/1231	8	 Refer to gird 	er(s) for truss to t	russ conr	nections					A STOR	DUIN	11
	14-16=-56/632. 13-1	4=-807/198.	ç) Provide med	hanical connectio	n (by oth	ers) of truss to	0		/	~ >	FESS	DN. Y	in
	11-13=-173/129, 10-	11=-91/898,		bearing plate	capable of withs	tanding 1	16 lb uplift at	ioint		4	0	11 / .	and the	-
	9-10=-87/908			9.		5				-	6 9	:4-	· · ·	-
WEBS	2-17=0/237, 2-16=-7	76/178, 3-16=-24/65	51, ·	0) One H2.5A	Simpson Strong-T	ie conne	ctors			=		SEA	L A	=
	3-14=-838/101, 4-14	=-540/155,		recommende	ed to connect trus	s to bear	ing walls due	to		- E		0000		
	6-14=-186/1390, 6-1	3=-1546/231,		UPLIFT at jt	s) 18 and 13. Thi	s connec	tion is for upli	ft		=		0363	22	-
	7-13=-1259/131, 7-1	1=-36/737,		only and doe	s not consider lat	eral force	es.			-	6	1		5
	8-11=-1005/224, 8-1	0=0/342, 1-17=-66/9	977 <i>·</i>	1) This truss is	designed in acco	rdance w	ith the 2018				5	1. A.	- · · ·	-
NOTES				International	Residential Code	sections	s R502.11.1 a	nd			2.0	S. SNOW	EHIX	5
1) Unbalanc	ed roof live loads have	been considered for	r	R802.10.2 a	nd referenced sta	ndard AN	ISI/TPI 1.				1	A. GIN		5
this desig	n.			Graphical pt	rlin representatio	n does no	ot depict the s	ize			1	1,CA C	II BUN	
				or the orient	ation of the purlin	along the	e top and/or					1, 7. 0	1-111	

April 28,2023



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bottom chord.

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	A4	Нір	1	1	Job Reference (optional)	158014097

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:12 ID:uuAUIqy5CRxl3ymgNtqn1jzNA0i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:79

Plate Offsets ((X, Y): [3:0-4-0,0-2-8],	[5:0-5-0,0-3-4], [6:0-	4-0,0-2-8]										
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC2018	J/TPI2014	CSI TC BC WB Matrix-MSH	0.90 0.67 0.90	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.18 -0.32 0.03	(loc) 10-12 10-12 8	l/defl >999 >782 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 253 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 *Excep 2x4 SP No.2 2x4 SP No.3 Structural wood shea 4-2-13 oc purlins, ei 2-0-0 oc purlins (2-4 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 10- 1 Row at midpt	t* 3-5,5-6:2x4 SP No athing directly applie xcept end verticals, a -4 max.): 3-6. applied or 10-0-0 oc -12. 3-13, 4-12	2) b.1 d or and : 3)	Wind: ASCE Vasd=103mp Cat. II; Exp E zone and C-0 4-9-4 to 17-2 (2R) 27-8-13 Exterior(2E)- right exposer for members Lumber DOL TCLL: ASCE Plate DOL=1 DOL=1.15): I	7-16; Vult=130mph h; TCDL=6.0psf; B 8; Enclosed; MWFR C Exterior(2E) 0-1-1 -8, Interior (1) 17-2- to 40-9-13, Interior 41-7-8 to 46-3-0 zoid 1; end vertical left a and forces & MWF =1.60 plate grip DC 7-16; Pr=20.0 psf (L s=1.0; Rough Cat B	(3-sec CDL=6 S (envi 2 to 4- 8 to 27 (1) 40 ne; car and righ RS for DL=1.60 (roof LL um DC 3; Fully	ond gust) .0psf; h=25ft; elope) exterior 9-4, Exterior(-8-13, Exteri- 9-13 to 41-7- reactions the the exposed;C- reactions sho) : Lum DOL= UL=1.15 Plate Exp.; Ce=0.5	; 2R) or -8, hd -C Dwn; 1.15 	LOAD	CASE(S)	Star	ndard	
REACTIONS	(size) 8= Mecha Max Horiz 17=-97 (Li Max Uplift 8=-121 (Li 17=-135 (I Max Grav 8=830 (LC 17=1069 (nical, 12=0-5-8, 17= C 19) C 15), 12=-191 (LC LC 14) C 42), 12=2610 (LC 4 (LC 34)	0-5-8 4) 10), 43), 6)	Cs=1.00; Ct= Unbalanced design. Provide adec This truss ha	uate drainage to pr s been designed fo	een cor event v r a 10.0	usidered for th water ponding) psf bottom	his g.					
FORCES	(lb) - Maximum Com Tension 1-2=-1502/218, 2-3= 3-4=-515/177, 4-6=-4 7-8=-1354/230, 1-17	pression/Maximum -1093/220, 418/786, 6-7=-605/1 =-986/164	7) 83, 8)	* This truss h on the bottom 3-06-00 tall b chord and an Refer to girde	has been designed f n chord in all areas by 2-00-00 wide will by other members, v er(s) for truss to trus	or a liv where fit betw with BC	e load of 20.0 a rectangle veen the botto DL = 10.0psf nections.	Opsf om f.				TH CA	Roj
BOT CHORD	16-17=-96/246, 15-1 13-15=-104/909, 12- 10-12=-646/159, 9-1 8-9=-134/1148	6=-206/1270, 13=-79/578, 0=-134/1148,	9)	Provide mech bearing plate joint 8.	hanical connection capable of withstar	(by oth nding 1 conner	ers) of truss t 21 lb uplift at ctors	to t		4	i i	PROFESSI	N. N.
WEBS	2-16=-60/97, 2-15=- 3-13=-652/69, 4-13= 5-12=-1239/268, 5-1 6-10=-273/98, 7-10= 1-16=-111/1062	520/123, 3-15=0/552 0/686, 4-12=-1654/2 0=-121/1246, 843/178, 7-9=0/225	2, 228, 5, 11)	recommende UPLIFT at jt(only and doe This truss is International	ed to connect truss t s) 17 and 12. This of s not consider later designed in accorda Residential Code s	to bear connec al force ance w ections	ing walls due tion is for uplies. ith the 2018 R502.11.1 a	to ift and		THE DAY		SEAI 03632	22
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for	12)	R802.10.2 ar Graphical pu or the orienta bottom chord	nd referenced stand rlin representation o ation of the purlin alo I.	lard AN does no ong the	ISI/TPI 1. ot depict the s top and/or	size				A. G. G.	

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April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	A5GR	Flat Girder	1	1	Job Reference (optional)	158014098

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:19 ID:HJeCNLLgXZBAcW565Rxb8gzNA2n-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

GINEERING

818 Soundside Road Edenton, NC 27932



									NAILE	2							NAILE)						
	NAILED	NAILED	NAILE	D NAILE	D NAILED	NAILED	NAILED	NAILED) 3x6=	NAILED	NAILED N	NAILED N	AILED	NAILED		NAILED	3x6=	NAILED	NAILE	D NAILED	NAILED N	AILED	NAILED	
	4x8=	-		2x4 II		3x8=			2x4 II		5x10=	-		5x6=		3x6	=		2x4 🛛		3x8:	-		3x5 II
	1	25	26	2 27	28	_3 ⊠	29	30	45	31	<u>3</u> 26	33	<u>3</u> 4	7 35	36	<u>37</u> 8	9 <u>8</u> 8	39	1640	41	<u>42</u> 11	<u>43</u>	44 ⊠	12
Т			Ш	8	<u>ш</u>			Ш		Ш.			10	R				Ш	ß					
		//				<pre>// `</pre>	//				/ `	//			\searrow		\mathcal{N}			/		//		
<u>م</u>								\mathbf{X}) (Þ						$\langle \rangle$					X	
4			$\langle \rangle$		//			\mathcal{N}		//			$\langle \rangle$			\mathbb{N}								
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1	24 🖳	1.0	1.0		0.0	UP	111	100		1.0	00	1.0	nn L		1.0		1.0	1.0		1.0		1.0	111	13
	⊠ 3x6 ⊪	45	46	23 47	48	22	49	21	2050	51	5219	53	54	[⊠] 55 18 ⁵⁵	56	1716	57	58	1 5 9	60	6114	62	63	5x6=
	0/10 11	NAILED		5x10=	NAILED	2x4 II		3x6:	-	NAILED	2x4 II		6	ix8=	NAILED	5x8=		NAILED	4x8=	NAILED	2x4		NAILED	
		1	VAILE	D NAILE	D	NAILED	NAILED		5x10=		NAILED	NAILED N	AILED	NAILED	۱ ۲ C	NAILED	NAILE)	NAILE	D	NAILED N	IAILED)	
								NAILED	NAILE)														
	L	5-4-6	;		10-5-4		15-6	5-3		20-7-1		25-6-	4 2	5-9-0	30-8-13		35	-9-12		40-10-1	0	4	6-3-0	
	1	5-4-6	i	I	5-0-14		5-0-	14	1	5-0-14	1	4-11-	3 ₀ .	-2-12	4-11-13		5-	0-14	1	5-0-14	1	!	5-4-6	1

Scale = 1:75.6

Plate Offsets (X, Y): [16:0-3-0,0-3-0], [18:0-3-8,0-3-0]

Loading		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.15		TC	0.91	Vert(LL)	0.10	20-22	>999	240	MT20	244/190	
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.80	Vert(CT)	-0.17	20-22	>999	180			
TCDL		10.0	Rep Stress Incr	NO		WB	0.88	Horz(CT)	0.04	13	n/a	n/a			
BCLL		0.0*	Code	IRC20	18/TPI2014	Matrix-MSH							-		
BCDL		10.0											Weight: 283 lt	FT = 20%	
LUMBER					NOTES					LOAD	CASE(S)	Sta	ndard		
TOP CHORD	2x4 SP N	o.1 *Excep	t* 9-12:2x4 SP No.2		1) Wind: ASCE	7-16; Vult=130mph	n (3-sed	ond gust)		1) De	ead + Sn	ow (ba	alanced): Lumb	er Increase=1.15	5, Plate
BOT CHORD	2x4 SP N	o.2			Vasd=103mp	oh; TCDL=6.0psf; B	CDL=6	.0psf; h=25ft;		In	crease="	1.15			
WEBS	2x4 SP N	o.3 *Excep	t* 23-1,16-7,13-11:2	x4	Cat. II; Exp E	3; Enclosed; MWFR	S (env	elope) exterio	r	Ur	niform Lo	oads (I	b/ft)		
	SP No.2				zone; cantile	ver left and right ex	posed	; end vertical l	left		Vert: 1-	2=-60), 13-24=-20		
BRACING					and right exp	osed; Lumber DOL	=1.60	olate grip		Co	oncentra	ted Lo	ads (lb)		
TOP CHORD	2-0-0 oc	purlins (4-3	-8 max.): 1-12, exce	ept	DOL=1.60						Vert: 1=	-67 (B), 5=-118 (B), 2	I=-32 (B), 3=-11	8 (B),
	end vertion	cals.	, ,	•	2) TCLL: ASCE	7-16; Pr=20.0 psf	(roof Ll	.: Lum DOL=1	1.15		22=-32	(B), 17	′=-32 (B), 25=-1	18 (B), 26=-118	(B),
BOT CHORD	Rigid ceil	ing directly	applied or 4-1-15 oc	:	Plate DOL=1	.15); Pf=20.0 psf (L	um DC	L=1.15 Plate			27=-118	8 (B), 2	28=-118 (B), 29=	-118 (B), 30=-11	18 (B),
	bracing.				DOL=1.15);	Is=1.0; Rough Cat E	3; ⊢ully	Exp.; Ce=0.9);		31=-118	8 (B), 3	32=-118 (B), 33=	-118 (B), 34=-1	18 (B),
WEBS	1 Row at	midpt	6-18, 11-13		CS=1.00; Ct=	=1.10 energy leads have by					35=-118	8 (B), 3	36=-118 (B), 37=	-118 (B), 38=-1	18 (B),
REACTIONS	(size)	13= Mech	anical, 18=0-5-8,		dosign	snow loads have be	en cor	isidered for th	115		39=-118	8 (B), 4	IO=-118 (B), 41=	-118 (B), 42=-1	18 (B),
		24=0-5-8			1) Brovido ador	nuato drainado to p	ovent	votor ponding			43=-110	(D),4	H4=-118 (B), 43=	-32 (B), 40=-32	(в),
	Max Horiz	24=-150 (LC 8)		5) This trues ha	s been designed fo	r o 10	nef bottom	J.		47=-32 51_ 22	(D), 40	D=-32 (D), 49=-3	2 (D), 50=-32 (D 2 (D) 54- 32 (D	9, 1)
	Max Uplift	13=-418 (LC 8), 18=-1674 (LC	; 9),	chord live lo	ad nonconcurrent w	ith anv	other live load	ds		55=-32	(B), 52 (B), 56	S=-32 (B), 55=-3	2 (B), 54=-32 (B 2 (B) 58=-32 (B), ()
		24=-615 (LC 8)		 This truss h 	as been designed t	for a liv	e load of 20 0	nsf		59=-32	(B) 60)=-32 (B), 61=-3	2 (B), 62=-32 (B)), ()
	Max Grav	13=1115 ((LC 1), 18=4295 (LC	1),	on the bottor	n chord in all areas	where	a rectangle	,po.		63=-32	(B)		- (2), 62 62 (2)	,,
		24=1620 ((LC 1)		3-06-00 tall b	y 2-00-00 wide will	fit bety	veen the botto	m			(-)			
FORCES	(lb) - Max	timum Com	pression/Maximum		chord and ar	y other members.									
	Tension				7) Refer to gird	er(s) for truss to tru	ss conr	nections.							
TOP CHORD	1-24=-15	49/624, 1-2	=-1541/617,		 Provide mec 	hanical connection	(by oth	ers) of truss to	0				mm	11111	
	2-3=-154	1/617, 3-4=	-1629/654,		bearing plate	capable of withsta	nding 4	18 lb uplift at					WAH C	ARO	
	4-6=-162	9/654,6-7=	-750/1833, 7-8=-96/	76,	joint 13 and	1674 lb uplift at join	t 18.					N	A	a Lill	
	8-10=-97	4/427, 10-1 9/50 40 40	1=-974/427,		H10A Simps	on Strong-Tie conn	ectors	recommended	d to			N's	O'.EES	1012 V	12
	22 24- 1	8/32, 12-13 19/127-22	=-210/108 22- 957/2020		connect trus	s to bearing walls d	ue to U	PLIFT at jt(s)	24.			3	1 P	1 desta	4
BOT CHORD	20-228	10/127,22- 57/2020 10	23=-057/2029, 2-20153/204		This connect	ion is for uplift only	and do	es not consid	er				.0	7:	-
	18-191	53/2023, 18	181833/731		lateral forces	i. An atom and the second					-		OF	60 E	- 3
	15-16=-4	5/53. 14-15	=-421/1014.		ID) I his truss is	Designed in accord	ance w	IT THE 2018	nd		=		SE/	AL :	Ξ.
	13-14=-4	21/1014			R802 10 2 a	A referenced stand	lard AN	191/TDI 1	nu		1		0363	322 :	-
WEBS	1-23=-78	5/1975, 2-2	3=-655/343,		11) Graphical pu	rlin representation	doos n	ot denict the s	izo		-			:	2
	3-23=-64	5/277, 3-22	=0/274, 3-20=-529/2	226,	or the orient:	ation of the nurlin al	ong the	ton and/or	IZE			-	N		1
	4-20=-61	6/320, 6-20	=-704/1762, 6-19=0/	/270,	bottom chore		ong an					2.	A. ENG	-ER. X	3
	6-18=-28	43/1119, 7-	18=-2204/933,		12) "NAILED" inc	dicates 3-10d (0 14)	8"x3") (or 3-12d				1	S, GIN	ILL. A.	S
	7-16=-95	2/2459, 8-1	6=-1407/628,		(0.148"x3.25	") toe-nails per NDS	S guidli	nes.				1	CA.	BEIN	
	8-15=-47	3/1219, 10-	15=-582/302,		13) In the LOAD	CASE(S) section, I	oads a	oplied to the fa	ace				11, A. (312,	
	11-15=-5	2/23, 11-14	=0/314, 11-13=-1288	8/503	of the truss a	re noted as front (F) or ba	ck (B).						TITT.	
													Ар	ʻil 28,2023	

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	В	Common	2	1	Job Reference (optional)	158014099

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:20 ID:gyYc0zncU?wSDsHHMQ271qzN9RV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Max Uplift 7=-124 (LC 15), 12=-86 (LC 14) Max Grav 7=1203 (LC 6), 12=1150 (LC 5) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-102/75, 2-3=-1352/250, 3-5=-1697/278, 5-7=-1852/247, 7-8=0/23, 1-12=-115/61 BOT CHORD 11-12=-120/1094, 9-11=-3/966, 7-9=-156/1603 WEBS 2-11=-81/199, 3-11=-51/370, 3-9=-114/834, 5-9=-470/234, 2-12=-1442/155

Max Horiz 12=-141 (LC 12)

7=0-5-8, 12=0-5-8

NOTES

TCDL

BCLL

BCDL

WEBS

WEBS

REACTIONS

(size)

SLIDER

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

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads 6) This truss has been designed for a 10.0 psf bottom

Unbalanced snow loads have been considered for this

chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf

- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. One H2.5A Simpson Strong-Tie connectors 8)
- recommended to connect truss to bearing walls due to UPLIFT at it(s) 12 and 7. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Cs=1.00: Ct=1.10

desian.

4)



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	B1	Common	1	1	Job Reference (optional)	158014100

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:20 ID:GwwKWZ93AWq3Rd9EgR5PoNzN9R0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



TOP CHORD BOT CHORD WEBS SLIDER BRACING

TOP CHORD	Structural except en	wood sheathing directly applied, d verticals.
BOT CHORD	Rigid ceili bracing.	ng directly applied or 2-2-0 oc
REACTIONS	(size)	7=0-5-8, 11= Mechanical
	Max Horiz	11=-147 (LC 12)
	Max Uplift	7=-123 (LC 15), 11=-82 (LC 14)
	Max Gray	7-1195 (1 C 6) 11-1121 (1 C 5)

7=1185 (LC 6), 11=1131 (LC 5) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-81/75, 2-3=-1271/245, 1-11=-88/52, 3-5=-1645/274, 5-7=-1813/249, 7-8=0/23 BOT CHORD 10-11=-108/994. 7-10=-158/1570 WEBS 2-10=-28/252, 3-10=-46/299, 3-9=-108/828, 5-9=-477/234, 2-11=-1391/155

NOTES

Loading

Snow (Pf)

LUMBER

TCDL

BCLL

BCDL

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 2-11-0 to 5-11-0, Interior (1) 5-11-0 to 10-10-10, Exterior(2R) 10-10-10 to 16-10-10, Interior (1) 16-10-10 to 26-3-12, Exterior(2E) 26-3-12 to 29-3-12 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
- UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces. 11) This truss is designed in accordance with the 2018
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. 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

3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 82 lb uplift at joint

recommended to connect truss to bearing walls due to

on the bottom chord in all areas where a rectangle

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

10) One H2.5A Simpson Strong-Tie connectors



818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6)

7)

8)

9)

11.

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	B2	Common	8	1	Job Reference (optional)	158014101

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:21 ID:e2xd6nsVzrb3rIRLRY7T?6zN9Op-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

4-3-13 11-1-6 18-2-15 25-8-0 4-3-13 6-9-9 7-1-9 7-5-1 4x5= 3 1<u>2</u> 6 Г 17 18 3x5 🖌 16 19 5x6. 2 45 7-11-5 15 2x4 u 20 3x5 👟 2-4-10 6 te 0-8-0 10 9 21 22 8 3x5= 4x6 II 3x5= 5x8= 6-9-11 16-1-1 25-8-0 6-9-11 9-3-7 9-6-15

Scale = 1:54.2

Plate Offsets (X, Y): [4:0-3-0,Edge], [7:0-4-1,Edge], [8:0-4-0,0-3-0]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC2018	3/TPI2014	CSI TC BC WB Matrix-MSH	0.97 1.00 0.92	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.26 -0.40 0.04	(loc) 8-9 8-9 7	l/defl >999 >767 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 134 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.1 *Except 2x4 SP No.2 2x4 SP No.3 Right 2x4 SP No.3 Structural wood sheat except end verticals. Rigid ceiling directly bracing. (size) 7= Mechat Max Horiz 10=-140 (I Max Uplift 7=-106 (LC Max Grav 7=1140 (L (lb) - Maximum Com	t* 4-7:2x4 SP No.2 1-6-0 athing directly applied applied or 2-2-0 oc nical, 10= Mechanica LC 12) C 15), 10=-82 (LC 14 C 6), 10=-1131 (LC 5 pression/Maximum	3) 4) 5) 6) al , 7) 8)	TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct= Unbalanced design. This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Refer to gird Provide mec bearing plate ioint 7 and 8	7-16; Pr=20.0 psf (.15); Pf=20.0 psf (L ls=1.0; Rough Cat E 1.10 snow loads have be as been designed for ad nonconcurrent w has been designed for a chord in all areas by 2-00-00 wide will by other members, v er(s) for truss to trus hanical connection capable of withsta?	roof LL um DC 3; Fully een cor r a 10.0 th any or a liv where fit betw vith BC ss conr (by oth hoding 1	: Lum DOL=: L=1.15 Plate Exp.; Ce=0.9 usidered for th D psf bottom other live loa e load of 20.0 a rectangle veen the bottod DL = 10.0psf vections. ers) of truss t 06 lb uplift at	1.15); ds.)psf om						
TOP CHORD	Tension 1-2=-81/75, 2-3=-127 5-7=-1816/253, 1-10 9-10=-114/991, 7-9= 2-9=-28/252 3-9=-44	71/246, 3-5=-1648/27 =-88/52 -182/1575 6/299 3-8109/832	9) 78, LC	This truss is International R802.10.2 a DAD CASE(S)	designed in accord Residential Code s nd referenced stand Standard	ance w ections ard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	nd						
NOTES	2-9=-20/232, 3-9=-40 5-8=-479/235, 2-10=	-1391/157 been considered for										TH CA	Rojin	

this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 2-11-0 to 5-11-0, Interior (1) 5-11-0 to 10-10, Exterior(2R) 10-10-10 to 16-10-10, Interior (1) 16-10-10 to 25-5-4, Exterior(2E) 25-5-4 to 28-5-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



Page: 1



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	B2GE	Common Supported Gable	1	1	Job Reference (optional)	158014102

11-1-6

Carter Components (Sanford), Sanford, NC - 27332

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:21 ID:eb?UFPGqzItEwW1tQhkRNGzN9OH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

25-8-0

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Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	BSE	Common Supported Gable	1	1	Job Reference (optional)	158014103

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:22 ID:Ry_nZ4SJb?e95sIHrya1_LzN9Rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.4

Plate Offsets (X, Y): [16:0-3-1,0-0-5]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 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 IRC2018	8/TPI2014	CSI TC BC WB Matrix-MSH	0.07 0.05 0.22	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 167	GRIP 244/190 b FT = 20	0
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No 2x4 SP No 2x4 SP No 2x4 SP No Right 2x4 S Structural 1 6-0-0 oc pu Rigid ceilin bracing. (size)	.2 .2 .3 SP No.3 wood shea urlins, exc ng directly 16=26-1-8 20=26-1-8 24=26-1-8	1-6-0 athing directly applie pept end verticals. applied or 10-0-0 oc 1, 18=26-1-8, 19=26- 21=26-1-8, 23=26- 1, 25=26-1-8, 26=26-	BC d or 1-8, 1-8, Wi 1-8, Wi	DP CHORD 1 3 5 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 5 5 5 1 1 1 2 2 2 2	-31=-37/38, 1-2=-3 8-4=-70/160, 4-5=-8 5-7=-117/293, 7-8= 9-10=-85/204, 10-11 2-13=-84/113, 13- 4-16=-120/87, 16- 30-31=-61/140, 29- 28-29=-61/140, 27- 28-29=-61/140, 25- 24-25=-61/140, 25- 24-25=-61/140, 20- 9-20=-61/140, 18- 6-18=-61/140, 18- 6-	39/44, 2 35/204, -117/29 2=-71/1 14=-95/ 17=0/2; 30=-61/ 28=-61/ 24=-61/ 24=-61/ 19=-61/ 19=-61/ =-205/6 =-123/9	-3=-53/108, 5-6=-101/251 3, 8-9=-101/2 59, (88, 3 (140, (1	/82, /119.	 4) TC Pla DC CS: 5) Unl des 6) Thi loa ove 7) All 8) Ga 9) Ga 10) Thi chc 11) * T 	LL: ASC te DOL= L=1.15); =1.00; C balancec ign. s truss h d of 12.0 rhangs r plates ar ble requi ble studs s truss h rod live lc bis truss h	E 7-16 1.15); Is=1.0 I snow as bee psf or non-co e 2x4 res col s space as bee pad nor bas be	; Pr=20.0 psf (L Pf=20.0 psf (Li); Rough Cat B loads have be an designed for 1.00 times flat ncurrent with c MT20 unless o ntinuous bottor ad at 2-0-0 oc. an designed for nconcurrent wi an designed for	oof LL: Lun Im DOL=1. ; Fully Exp. en consider greater of n roof load o ther live load ther wise ind n chord bea a 10.0 psf th any other or a live load	n DOL=1.15 15 Plate ; Ce=0.9; red for this min roof live f 20.0 psf on ads. dicated. aring. bottom r live loads. d of 20 0psf
FORCES	Max Horiz Max Uplift Max Grav (Ib) - Maxir Tension	27=26-1-8 30=26-1-8 31=-141 (I 16=-38 (L1 19=-32 (L1 21=-43 (L1 24=-42 (L1 22=-44 (L1 22=-41 (L1 23=-19 (L1 16=153 (L1 18=153 (L1 28=174 (L1 28=174 (L1 30=146 (L1 32=153 (L1 num Com	, 28=26-1-8, 29=26- , 31=26-1-8, 32=26- , 21=26-1-8, 32=26- , 21=26-1-8, 32=26- , 21=26-1-8, 32=26- , 21=26- ,	1-8, 1-8 5), NC 5), 1) 4), 2) 4), 2) 4), 2) 4), 2) 5), 20), 5), 20), 5), 20), 1), 3), 3)	Unbalanced this design. Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-C 5-5-8 to 10-1 Exterior(2N) 29-3-12 zone vertical left at forces & MW DOL=1.60 pl Truss design only. For stu see Standarc or consult qu	5-24=-205/69, 9-23 2-20=-121/79, 13- 4-18=-140/107 roof live loads have 7-16; Vult=130mph bh; TCDL=6.0psf; B ; Enclosed; MWFR C Corner(3E) 2-5-8 0-10, Corner(3R) 1 16-10-10 to 26-3-1; e; cantilever left and nd right exposed;C FRS for reactions s ate grip DOL=1.60 red for wind loads i ds exposed to wind I Industry Gable Er alified building desi	=-188/8 19=-11 c been of CDL=6 S (envi- to 5-5- 0-10-10 2, Corn d right e -C for n shown; n the pid d (norm id Deta igner as	2, 10-21=-13 5/70, considered for cond gust) .0psf; h=25ft; elope) exterior 8, Exterior(2N) 0 to 16-10-10, er(3E) 26-3-1; xposed ; end nembers and Lumber lane of the tru al to the face) ils as applicatis s per ANSI/TP	r r l) 2 to sss), ole, 2 1.	on 3-0 chc	the botto 6-00 tall rd and a	m cho by 2-0 ny oth	ord in all areas 0-00 wide will er members. SE 036 SE 036	AR Sister AL 322	tangle the bottom

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	BSE	Common Supported Gable	1	1	Job Reference (optional)	158014103
Carter Components (Sanford), S	anford, NC - 27332,	Run: 8.53 S Mar 9 2	023 Print: 8.	530 S Mar 9	2023 MiTek Industries, Inc. Thu Apr 27 09:18:22	Page: 2

- 12) One MECHANICAL connector recommended to connect truss to bearing walls due to UPLIFT at jt(s) 31, 26, 27, 28, 29, 30, 24, 23, 21, 20, 19, 18, and 16. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

53 S Mar 9 2023 Print 8 53 0 S Mar 9 2023 MiTek In Inc. Thu Apr 27 09:18:22 ID:Ry_nZ4SJb?e95sIHrya1_LzN9Rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	С	Monopitch	1	1	Job Reference (optional)	158014104

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:22 ID:CXRtU?7XfSFc?pC5uxDzSIzN8T4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	CJ1	Jack-Open	1	1	Job Reference (optional)	158014105

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:23 ID:QpoE1xv8JBr1WttQKj2mgMzN9oa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



5-2-14





Scale =	1:24.6
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Plate Offsets (X, Y): [2:0-4-5,Edge]

	(••, •)• [=••	,													
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD	2x4 SP N 2x4 SP N Structural 5-2-14 oc Rigid ceil	(psf) 20.0 20.0 10.0 0.0* 10.0 0.2 0.2 1 wood she: purlins. ing directly	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018 4) 5) d or 6)	3/TPI2014 This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor	CSI TC BC WB Matrix-MP as been designed psf or 1.00 times on-concurrent wit as been designed ad nonconcurrent has been designed mas been designed	0.43 0.46 0.00 I for great flat roof l th other lin I for a 10. t with any ad for a liv as where	DEFL Vert(LL) Vert(CT) Horz(CT) er of min root bad of 20.0 p re loads. 0 psf bottom other live loa e load of 20.0 a rectangle	in 0.12 0.09 0.00 f live isf on ads. 0psf	(loc) 4-7 4-7 2	l/defl >534 >661 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 18 lb	GRIP 244/190 FT = 20%	
REACTIONS	bracing. (size) Max Horiz Max Uplift Max Grav	2=0-4-9, 3 Mechanic 2=44 (LC 2=-126 (L 4=-24 (LC 2=374 (LC 4=90 (LC	3= Mechanical, 4= al 10) C 10), 3=-52 (LC 10) 5 (10) C 21), 3=167 (LC 21) 7)	7) 8) , 9)	3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate 3 and 24 lb u One H2.5A S recommende UPLIFT at itt	by 2-00-00 wide w ny other members ler(s) for truss to t chanical connectic e capable of withs uplift at joint 4. Simpson Strong-T ed to connect trus (s) 2. This connec	will fit betw s. truss conr on (by oth standing 5 Fie conne ss to bear ction is for	veen the bott nections. ers) of truss i2 lb uplift at j ctors ing walls due i uplift only ar	to joint e to nd						
TOP CHORD BOT CHORD NOTES 1) Wind: ASG Vasd=103 Cat. II; Ex zone and 3-0-1 to 5- end vertic: exposed;(C reactions s DOL=1.60 2) TCLL: ASG Plate DOL DOL=1.15 Cs=1.00; (3) Unbalance design.	(ib) - Max Tension 1-2=0/17, 2-4=-326/ CE 7-16; Vu Bmph; TCDL p B; Encloss C-C Corner -2-2 zone; c al left and ri c-C-C for merr shown; Lurr) CE 7-16; Pr _=1.15); Pf= 5); Is=1.0; Ri Ct=1.10 ed snow loa	, 2-3=-202/ /184 llt=130mph =6.0psf; B(ed; MWFR: (3) -1-2-14 antilever le ght expose bers and for ber DOL=' =20.0 psf (L ough Cat B ds have be	(3-second gust) (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior It o 3-0-1, Exterior(2F ift and right exposed d; porch left and righ orces & MWFRS for 1.60 plate grip roof LL: Lum DOL=1 um DOL=1.15 Plate s; Fully Exp.; Ce=0.9; een considered for thi	10) LO ?; t .15 s	does not cor) This truss is International R802.10.2 a AD CASE(S)	isider lateral force designed in acco Residential Code nd referenced sta Standard	es. ordance w e sections andard AN	ith the 2018 : R502.11.1 a ISI/TPI 1.	and		Manutan.		SEA 0363	L 22 EER. R. I.I. 128,2023	. Manunnan



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	D	Roof Special	2	1	Job Reference (optional)	158014106

Scale = 1:93.4

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:23 ID:e5zaMKVsboWEXwhtUAX9M3zN8kf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	0,0 - 0], [0 0 0,0]											
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	0.81	Vert(LL)	-0.39	17-19	>692	240	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.71	17-19	>384	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.04	9	n/a	n/a			
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.15	11-16	>425	360			
BCDL	10.0										Weight: 206 lb	FT = 20%	

-			
LUMBER		1) Wind: ASCE 7-16; Vult=130mph (3-second gust) 13) This truss is designed in accordance with the 2018	
TOP CHORD	2x4 SP No.2	Vasd=103mph; ICDL=6.0pst; BCDL=6.0pst; h=25tt; International Residential Code sections R502.11.1 a	and
BOT CHORD	2x4 SP No.1 *Except* 16-11:2x4 SP No.3,	Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior R802.10.2 and referenced standard ANSI/TP11.	
	18-9:2x4 SP No.2	zone and C-C Exterior($2E$) -0-10-8 to 2-1-8, interior (1) 14) Attic room checked for L/360 deflection.	
WEBS	2x4 SP No.3 *Except* 8-9,21-22:2x4 SP	2-1-8 to 19-9-12, Exterior(2E) 19-9-12 to 22-9-12 zone; LOAD CASE(S) Standard	
	No.2, 6-17,7-10,22-9:2x4 SP 2400F 2.0E	cantilever left and right exposed (U-C for members and	
BRACING		Torces & MWFRS for reactions shown; Lumber	
TOP CHORD	Structural wood sheathing directly applied or	DOL=1.60 plate grip DOL=1.60	
	4-5-10 oc purlins, except end verticals.	2) TCLE: ASCE 7-16; Pr=20.0 pst (root LL: Lum DOL=1.15	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc	Plate DOL=1.15); PI=20.0 pst (Lum DOL=1.15 Plate	
	bracing, Except:	DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9;	
	6-0-0 oc bracing: 10-13.	Cs=1.00; Ct=1.10	
WEBS	1 Row at midpt 4-17, 3-20, 6-22, 9-22	3) Unbalanced snow loads have been considered for this	
JOINTS	1 Brace at Jt(s): 22	design.	
REACTIONS	(size) $9-$ Mechanical $20-0.5-8$	4) This truss has been designed for greater of min roof live	
REACTIONS	(32e) 3= Mechanical, 20=0-0-0	load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on	
	Max Holiz $20=432$ (LC 14) Max Holiff $0=20$ (LC 14) $20=1$ (LC 14)	overhangs non-concurrent with other live loads.	
	Max Opint $9=-30$ (LC 14), $20=-1$ (LC 14)	5) All plates are 3x5 MT20 unless otherwise indicated.	
	Max Grav 9=1733 (LC 5), 20=1170 (LC 5)	6) This truss has been designed for a 10.0 psf bottom	
FORCES	(lb) - Maximum Compression/Maximum	chord live load nonconcurrent with any other live loads.	
	Tension	 * This truss has been designed for a live load of 20.0psf 	
TOP CHORD	1-2=0/27, 2-3=-396/100, 3-4=-1548/0,	on the bottom chord in all areas where a rectangle	
	4-6=-912/0, 6-7=-155/885, 7-8=-43/566,	3-06-00 tall by 2-00-00 wide will fit between the bottom	
	8-9=-254/2354, 2-20=-362/137	chord and any other members, with BCDL = 10.0psf.	
BOT CHORD	19-20=-327/1392, 17-19=-187/1142,	8) Ceiling dead load (5.0 psf) on member(s). 21-22; Wall	
	15-17=-111/1331, 13-15=0/870,	dead load (5.0psf) on member(s).16-21, 11-22	1
	10-13=-90/12, 9-10=-34/474, 14-16=-348/0,	9) Bottom chord live load (40.0 psf) and additional bottom	1
	12-14=-348/0, 11-12=-348/0	chord dead load (5.0 psf) applied only to room. 14-16,	-
WEBS	3-19=-170/193, 4-19=-49/483,	12-14, 11-12 = SEAL :	=
	4-17=-617/203, 16-17=-68/693, 16-21=0/715,	10) Refer to girder(s) for truss to truss connections.	
	6-21=0/725, 10-11=-19/548, 11-22=0/1092,	11) Provide mechanical connection (by others) of truss to	=
	7-22=-671/181, 21-22=-78/821,	bearing plate capable of withstanding 30 lb uplift at joint 🗧 ;	-
	3-20=-1301/0, 6-22=-2129/179,	9.	-
	14-15=-71/177, 12-13=-447/6,	12) One H2.5A Simpson Strong-Tie connectors	2
	15-16=-619/167, 11-13=0/1063,	recommended to connect truss to bearing walls due to	
	9-22=-4429/319, 8-22=-2513/235	UPLIFT at jt(s) 20. This connection is for uplift only and	
NOTES		does not consider lateral forces.	
		CONTRACTOR .	

April 28,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	D1	Attic	1	1	Job Reference (optional)	158014107

<u>11-2-3</u> 5-5-5

<u>16-5-12</u> 5-3-9

-0-10-8 0-10-8

5-8-13

5-8-13

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:24 ID:Fy1HrcKyGuPyXz9iHgDKRhzN8iJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

22-11-8 21-9-4 22-5-11 5-3-8 0-8-7

0₄₅₈13 2x4 II 8

Page: 1

7 1 24 3x6 🞜 6¹² 6 3x5 🞜 1-4-8 护 3x5 ≠ 5 12-2-13 12-2-13 11-11-5 4 10x1 3×6= 7-0-12 4x5 ≠ 3 3x5 II 23 2 99-9-0-1-8-0-1-20 ł 14 ⊡#6 19 25 26 1817 15 13 10 ÷۳ 3x6= 3x5= 3x5= 3x5= 2x4 II 3x5= 2x4 u 4x8= 4x8= 3x5= 5x10= 18-3-8 29611 16-7-8 21-7-8 16-5-12 19-11-821-9-4 18-5-12 19-11-821-9-4 18-5-12 19-11-821-9-4 18-5-12 19-11-821-9-4 18-5-12 19-11-821-9-4 18-5-12 19-11-821-9-4 18-5-12 19-11-821-9-4 18-5-12 19-11-821-9-4 19-7-12 1-8-0 0-1-12 23261₁1-8 21-7-8 8-5-8 15-10-0 1-8-0 0-1-12 1-8-0 8-5-8 7-4-8 0-1-12

Scale = 1:96.3	
Plate Offsets (X, Y):	[8:0-4-5,Edge], [22:0-3-8,0-2-0]

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	0.83	Vert(LL)	-0.40	17-19	>678	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.83	Vert(CT)	-0.72	17-19	>378	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.87	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018	8/TPI2014	Matrix-MSH		Attic	-0.15	11-16	>420	360		
BCDL	10.0											Weight: 215 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2		1)	Wind: ASCE Vasd=103mp	7-16; Vult=130mp h; TCDL=6.0psf;	oh (3-seo BCDL=6	cond gust) .0psf; h=25ft;	;	13) This Inte	s truss is rnationa	desig I Resid	ned in accordanc dential Code sect	e with the 2018 ions R502.11.1 and
BOT CHORD	2x4 SP No.1 *Excep 18-9:2x4 SP No.2	t* 16-11:2x4 SP No.3	,	zone and C-0	; Enclosed; MVVF C Exterior(2E) -0-1	RS (env 10-8 to 2	elope) exterio -1-8, Interior (or (1)	R80 14) Attio	2.10.2 a c room c	ind ref hecke	erenced standard d for L/360 deflec	tion.
WEBS	2x4 SP No.3 *Excep 2400F 2.0E, 21-22:2 No.2	t* 6-17,7-10,22-9:2x4 x4 SP No.2, 9-8:2x6	SP SP	2-1-8 to 19-8-12, Exterior(2E) 19-8-12 to 22-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber						CASE(S)	Sta	ndard	
BRACING				DOL=1.60 pl	ate grip DOL=1.60)							
TOP CHORD	Structural wood she 4-5-11 oc purlins, e	athing directly applied xcept end verticals.	lor ²⁾	Plate DOL=1	7-16; Pr=20.0 psi .15); Pf=20.0 psf (Lum DC	LEUM DOL=	1.15					
BOT CHORD	Rigid ceiling directly bracing. Except:	applied or 10-0-0 oc		Cs=1.00; Ct=	1.10; Rough Cat	B; Fully	Exp.; Ce=0.8	<i>)</i> ;					
	6-0-0 oc bracing: 10	-13.	3)	Unbalanced	snow loads have b	been cor	nsidered for th	nis					
WEBS	1 Row at midpt	4-17, 3-20, 6-22, 9-22	2 1)	design.			(B					
JOINTS	1 Brace at Jt(s): 22		4) This truss has been designed for greater of min roof live										
REACTIONS	(size) 9= Mecha	nical, 20=0-5-8		overbands non-concurrent with other live loads									
	Max Horiz 20=430 (L	_C 14)	5)	All plates are	3x5 MT20 unless	otherwi	se indicated						
	Max Uplift 9=-28 (LC	14), 20=-2 (LC 14)	6)	This truss ha	s been designed f	or a 10.0) psf bottom						
	Max Grav 9=1738 (L	_C 5), 20=1167 (LC 5) ()	chord live loa	d nonconcurrent	with any	other live loa	ds.					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	7)	* This truss h on the botton	as been designed h chord in all area	l for a liv s where	e load of 20.0 a rectangle	Opsf					Цц.,
TOP CHORD	1-2=0/27, 2-3=-396/ 4-6=-904/0, 6-7=-15	100, 3-4=-1542/0, 5/908, 7-8=-42/599,		3-06-00 tall b chord and an	y 2-00-00 wide wi v other members.	ill fit betv with BC	veen the botto	om				TH CA	ROY
	2-20=-362/137, 8-9=	-285/2634	8)	Ceiling dead	load (5.0 psf) on r	nember	s). 21-22; W	all			3	ON JESS	in the
BOT CHORD	19-20=-327/1387, 17	7-19=-187/1136,		dead load (5.	Opsf) on member	(s).16-21	, 11-22			/		OFLOY	N'A IS
	15-17=-110/1330, 13	3-15=0/877,	9)	Bottom chord	l live load (40.0 ps	sf) and a	dditional botto	om		2			n
	10-13=-103/11, 9-10)=-34/464, 14-16=-36 2=-361/0	1/0,	chord dead lo 12-14, 11-12	oad (5.0 psf) appli	ed only t	o room. 14-10	6,			-	SEA	
WEBS	3-19=-171/192, 4-19	=-49/485,	10) Refer to girde	er(s) for truss to tr	uss conr	nections.			=		OLA	5 5 5
	4-17=-619/203, 16-1	7=-68/691, 16-21=0/2	717, 11) Provide mech	nanical connectior	n (by oth	ers) of truss to	0				0363	22 <u>:</u> E
	6-21=0/727, 10-11=- 7-22=-642/182, 21-2	-20/517, 11-22=0/107 22=-77/830,	3,	bearing plate	capable of withst	anding 2	8 lb uplift at jo	oint			3		1 3
	3-20=-1296/0, 6-22=	-2149/179,	12) One H2.5A S	impson Strong-Ti	e conne	ctors				10	N. ENO	-FRIX S
	14-15=-71/176, 12-1	3=-445/5,		recommende	d to connect truss	to bear	ing walls due	to			1	S. GIN	195
	15-16=-614/165, 11-	-13=0/1088,		UPLIFT at jt(s) 20. This connec	ction is fo	or uplift only a	and			1	CAO	11 BEIN
	9-22=-4693/348, 8-2	2=-2840/261		does not con	sider lateral forces	s.						1, 7. 6	i i i i i i
NOTES												n	
												Apri	28,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	E	Common	9	1	Job Reference (optional)	158014108

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:25 ID:TUtCy?D4EtpNrlg1ICyUeezN9j?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?

Page: 1



WEBS NOTES

TCDL

BCLL

BCDL

WEBS

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior (1) 2-1-8 to 6-11-12, Exterior(2R) 6-11-12 to 12-11-12, Interior (1) 12-11-12 to 17-10-0, Exterior(2E) 17-10-0 to 20-10-0 zone: cantilever left and right exposed : end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ORT WITTER CONTRACTOR SEAL 036322 G mmm April 28,2023

> 818 Soundside Road Edenton, NC 27932

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	E1	Common	2	1	Job Reference (optional)	158014109

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:25 ID:Bh?PdEY0tADYauEDqNxpELzN9ia-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-3=-1342/280, 3-4=-992/217, 4-5=-992/217, 5-7=-1342/280 BOT CHORD 1-7=-195/1164WEBS 4-8=-38/544, 5-8=-435/174, 3-8=-435/174

NOTES

Loading

Snow (Pf)

LUMBER

TCDL

BCLL

BCDL

WEBS

SLIDER

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0. Interior (1) 3-0-0 to 6-11-12, Exterior(2R) 6-11-12 to 12-11-12, Interior (1) 12-11-12 to 16-11-8, Exterior(2E) 16-11-8 to 19-11-8 zone: cantilever left and right exposed : end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	E1GR	Common Girder	1	2	Job Reference (optional)	158014110

Loading

TCLL (roof)

Snow (Pf)

LUMBER

TCDL

BCLL

BCDL

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:26 ID:aJqNafrxxRVbHcxWa4W4i_zN9IN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



BOT CHORD 2x8 SP 2400F 2.0E 4) WEBS 2x4 SP No.3 *Except* 8-3:2x4 SP No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 3-8-3 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc 5) bracing. **REACTIONS** (size) 1=0-5-8, 5=0-5-8 Max Horiz 1=-79 (LC 38) Max Uplift 1=-504 (LC 12), 5=-498 (LC 13) 6) Max Grav 1=5773 (LC 5), 5=5701 (LC 6) FORCES (Ib) - Maximum Compression/Maximum 7) Tension TOP CHORD 1-2=-9654/846, 2-3=-7065/646, 8) 3-4=-7065/646, 4-5=-9660/847 BOT CHORD 1-9=-775/8586, 8-9=-775/8586, 6-8=-697/8591.5-6=-697/8591 WEBS 3-8=-483/5974, 4-8=-2698/332, 9) 4-6=-141/2231. 2-8=-2692/330. 2-9=-139/2223 NOTES 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

All loads are considered equally applied to all plies. 2) except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- LGT2 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-12 from the left end to 17-10-12 to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) LGT2 Hurricane ties must have two studs in line below the truss

LOAD CASE(S) Standard



Vert: 1-3=-60, 3-5=-60, 10-13=-20

Vert: 7=-1012 (B), 8=-1012 (B), 18=-1012 (B),

19=-1012 (B), 20=-1012 (B), 21=-1012 (B),

22=-1012 (B), 23=-1012 (B), 24=-1012 (B)

Concentrated Loads (lb)



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	EGE	Common Supported Gable	1	1	Job Reference (optional)	158014111

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:26 ID:EUINV6vmMuY3jlg1DkUOb9zN9jP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:43.3

Plate Offsets (X, Y): [2:0-2-8,0-0-5], [14:0-3-1,0-0-5], [20:0-3-0,0-3-0]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psi 20. 20. 10. 0. 10.	 Spacing Plate Grip Lumber D Rep Stres Code 	DOL OL s Incr	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-MSH	0.07 0.03 0.08	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: 109 lb	GRIP 244/190 FT = 20%	_		
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.3 1-6-0 Structural wood	1-6-0, Right	2x4 SP No	BO WE p.3 or NC	DT CHORD 2 2 1 EBS 8 5 1 1 1 DTES	2-24=-13/90, 23-24= 1-22=-13/90, 19-21 7-18=-13/90, 16-17 1-20=-108/0, 7-21= 1-23=-136/79, 4-24= 0-18=-188/83, 11-1 2-16=-115/102	=-13/90 1=-13/9 7=-13/9 205/81 205/81 =-115/1 17=-130	i, 22-23=-13/9 0, 18-19=-13 0, 14-16=-13 , 6-22=-188/8 02, 9-19=-20 5/79,	90, /90, /90 33, 5/81,	10) This cho 11) * Th 3-0(cho 12) Pro bea	s truss ha rd live lo his truss he botto 6-00 tall rd and a vide med ring plate	as bee ad nor has be m choi by 2-0 ny oth chanica e capa	n designed for a nconcurrent with a en designed for a d in all areas wh 0-00 wide will fit h er members. al connection (by ble of withstandi	10.0 psf bottom any other live loads. a live load of 20.0psf ere a rectangle between the bottom others) of truss to og 15 lb uplift at joint			
BOT CHORD	D Structural wood sheathing directly applied or 6-0-0 oc purlins. D Rigid ceiling directly applied or 10-0-0 oc bracing. S (size) 2=19-11-8, 14=19-11-8, 16=19-11-8, 17=19-11-8, 20=19-11-8, 21=19-11-8, 20=19-11-8, 21=19-11-8, 20=19-11-8, 21=19-11-8, 20=19-11-8, 21=19-11-8, 20=19-11-8, 21=19-11-8, 20=19-11-8, 21=19-11-8, 20=19-11-8, 21=19-11-8, 20=19-11-8, 25=19-11-8, 20=19-11-8, 25=19-11-8, 20=19-11-8, 25=19-11-8, 20=19-11-8, 25=19-11-8, 20=19-11-8, 25=19-11-8, 20=19-11-8, 25=19-11-8, 20=19-11-8, 25=19-11-8, 20=19-11-8, 25=19-11-8, 20=19-11-8, 25=19-11-8, 12-11-12, 21-11-12, 22=456 (LC 15), 15=-45 (LC 15), 19=-45 (LC 15), 15=-45 (LC 15), 19=-45 (LC 14), 23=-38 (LC 14), 24=-69 (LC 14), 25=-15 (LC 15), Max Grav 2=141 (LC 21), 14=141 (LC 22), 16=159 (LC 34), 25=141 (LC 21), 20=148 (LC 27), 21=245 (LC 22), 20=141 (LC 22), 23=175 (LC 21), 22=228 (LC 21), 23=175 (LC 21), 29=141 (LC 22), 21=411 (LC 21), 20=141 (LC 22), 21=411 (LC 21), 21=100, 21=				Unbalanced this design. Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-C (2N) 1-11-12 12-11-12, Ex 17-10-0 to 20 exposed ; en members and Lumber DOI	ed roof live loads have been considered for n. CE 7-16; Vult=130mph (3-second gust) 3mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; p B; Enclosed; MWFRS (envelope) exterior C-C Corner(3E) -0-10-8 to 1-11-12, Exterior -12 to 6-11-12, Corner(3R) 6-11-12 to Exterior(2N) 12-11-12 to 17-10-0, Corner(3E) 20-10-0 zone; cantilever left and right end vertical left and right exposed;C-C for and forces & MWFRS for reactions shown; VI 1 4 C0 Letter crite							 2, 45 to upint at joint 21, 45 to upint at joint 22, 38 to upint at joint 23, 69 to upint at joint 24, 45 to upift at joint 19, 45 to upift at joint 18, 40 to upift at joint 17, 61 to upift at joint 16 and 15 to upift at joint 2. Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 25. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. AD CASE(S) Standard 				
					Truss design only. For stu see Standarc or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct= Unbalanced s design. This truss has	Ser DOL=1.60 plate grip DOL=1.60 is designed for wind loads in the plane of the truss For studs exposed to wind (normal to the face), Standard Industry Gable End Details as applicable, insult qualified building designer as per ANSI/TPI 1. .: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 PDL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate =1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; I.00; Ct=1.10 alanced snow loads have been considered for this gn. truss has been designed for greater of min roof live					SEAL 036322						
FORCES	(lb) - Maximum (Tension 1-2=0/23, 2-4=-9 5-6=-51/80, 6-7= 8-9=-65/168, 9-1 11-12=-43/27, 12	29=141 (LC 22) 6) This truss load of 12 overhang - Maximum Compression/Maximum sion 0/23, 2-4=-91/48, 4-5=-68/56, =-51/80, 6-7=-59/121, 7-8=-65/168, 9-10=-59/121, 10-11=-49/73, 12=-43/27, 12-14=-54/22, 14-15=0/23 6) This truss load of 12 overhang - Maximum Compression/Maximum sion 0 7) All plates =-65/168, 9-10=-59/121, 10-11=-49/73, 12=-43/27, 12-14=-54/22, 14-15=0/23 9) Gable stu				2x4 MT20 unless to spaced at 2-0-0 oc.	ye loads. se indicated. d bearing.	SI OTI	A. GILBERT								

April 28,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	FGE	Common Supported Gable	1	1	Job Reference (optional)	158014112

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:27 ID:N7kH5saCOVshB04owF82i4zN9u9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:58.6

Plate Offsets (X, Y): [7:0-2-8, Edge]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC2018	8/TPI2014	CSI TC BC WB Matrix-MR	0.24 0.13 0.24	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: 130 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 14=18-7-(24=18-18-18-(24=18-18-18-(24=18-18-18-(24=18-18-18-(24=18-18-18-(24=18-18-18-(24=18-18-18-(24=18-18-18-(24=18-18-18-18-(24=18-18-18-(24=18-18-18-18-(24=18-18-18-18-18-(24=18-18-18-18-18-18-(24=18-18-18-18-18-18-18-18-18-18-18-18-18-1	athing directly applied cept end verticals. applied or 6-0-0 oc 0, 15=18-7-0, 16=18- 0, 18=18-7-0, 20=18- 0, 22=18-7-0, 23=18- 0 C 11), 15=-189 (LC 1 C 15), 17=-129 (LC 1 LC 14), 22=-39 (LC 1 LC 14), 24=-96 (LC 2 C 24), 15=266 (LC 2 C 25), 17=240 (LC 2 C 6), 20=265 (LC 5), C 21), 22=188 (LC 2) C 24), 24=26 (LC 2)	Wi d or 2) 7-0, 7-0, 7-0, 7-0, 7-0, 7-0, 7-0, 7-0,	EBS 6 2 2 2 2 2 2 2 2 2 2 2 2 2	-20=-208/12, 8-18: -22=-130/87, 3-23: -17=-202/183, 10- 1-15=-160/169 roof live loads have 7-16; Vult=130mph h; TCDL=6.0psf; B ; Enclosed; MWFR Corner(3E) -0-10- H, Corner(3E) -0-10- H, Co	=-208/1 =-164/1 16=-13(been of (3-secc CDL=6 S (env) 8 to 2- to 12-1 s (control to 2) and for b)L=1.60 and for b)L=1.60 and	2, 5-21=-202 69, 0/87, considered fo ond gust) .0psf; h=25ft; elope) exterior 1-4, Exterior(; 5-12, Exterior 1-4, Exterior(; 5-12, Exterior 1-4, Exterior(; 5-12, Exterior 1-4, Exterior(; 5-12, Exterior 1-4, Exterior(; 5-12, Exterior 1-4, Exterior(; 1-4, Exteri	/183, //183, //183, // /////////////////////////////////	 12) * Th on ti 3-0€ choi 13) Prov beai 24, i ipliniti joint 15. 14) This Inter R80 LOAD C 	is truss he botto 3-00 tall rd and a vide mer ring plat 81 lb up t at joint 17, 40 t truss is rnationa 2.10.2 a cASE(S)	has be m cho by 2-0 ny oth- chanic: e capa ilft at j b uplif d desigg d desigg nd ref Star	een designed for rd in all areas wh 0-00 wide will fit er members, with al connection (by ble of withstandi bint 14, 128 lb up 03 lb uplift at join t at joint 16 and 1 ned in accordance dential Code sect erenced standard ndard	a live load of 2d ere a rectangle between the bc BCDL = 10.0p others) of trus 1g 96 lb uplift a iff at joint 21, 3 23, 129 lb uplift 89 lb uplift at ju e with the 2018 ions R502.11.1 1 ANSI/TPI 1.	D.Opsf introm usf. s to it joint if at joint 3 and
FORCES TOP CHORD BOT CHORD	(b) - Maximum Com Tension 2-24=-177/78, 1-2=0 3-4=-100/94, 4-5=-9 6-7=-108/197, 7-8=- 9-10=-85/150, 10-11 11-12=-149/129, 12 23-24=-117/156, 22- 21-22=-117/156, 22- 21-22=-117/156, 15- 14-15=-117/156	pression/Maximum //39, 2-3=-163/144, 4/150, 5-6=-139/283, 108/197, 8-9=-139/28 =-88/83, 13=0/39, 12-14=-168 -23=-117/156, -21=-117/156, -16=-117/156,	5) 6) 33, 3/67 7) 8) 9) 10 11	Cs=1.00; Ct= Unbalanced : design. This truss ha load of 12.0 p overhangs no All plates are Gable require Truss to be ft braced again) Gable studs :) This truss ha chord live loa	1.10 snow loads have be s been designed fo ssf or 1.00 times fla on-concurrent with 2x4 MT20 unless of scontinuous botto ully sheathed from st lateral movemen spaced at 2-0-0 oc. s been designed fo d nonconcurrent w	een cor r greate t roof k other liv otherwi m chor one fac t (i.e. d r a 10.0 ith any	esidered for the er of min roof pad of 20.0 ps ve loads. se indicated. d bearing. e or securely iagonal web). 0 psf bottom other live load	his live sf on ds.		And the second s	K. M.	SEA 0363	L 22 ILBERT	Mannunning

April 28,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	FGR	Common Girder	1	2	Job Reference (optional)	158014113

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:27 ID:hSLx1gJpGAFbwjFpxeIMIszN8DK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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818 Soundside Road Edenton, NC 27932



Scale = 1:64.3 Plate Offsets (X, Y): [9:0-3-8,0-3-12], [10:0-6-0,0-6-0], [11:0-3-8,0-3-12]

unless otherwise indicated.

				-										
Loading	(psf) 20.0	Spacing Plate Grip DOI	2-0-0 1 15		CSI TC	0.63	DEFL Vert(II)	in -0.05	(loc) 10-11	l/defl	L/d 240	PLATES	GRIP 244/190	
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.16	Vert(CT)	-0.09	10-11	>999	180		21.0.00	
TCDL	10.0	Rep Stress Incr	NO		WB	0.72	Horz(CT)	0.01	8	n/a	n/a			
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MSH		()							
BCDL	10.0											Weight: 311 lb	FT = 20%	
LUMBER			3)	3) Unbalanced roof live loads have been considered for							oles w	/here hanger is ir	n contact with lum	ıber.
TOP CHOP	D 2x4 SP No.2			this design.					15) LG	T2 Hurrio	cane ti	es must have tw	o studs in line bel	ow
BOT CHOP	D 2x8 SP 2400F 2.0	=	4)	Wind: ASCE	7-16; Vult=130m	ph (3-seo	ond gust)		the	truss.				
WEBS	2x4 SP No.3			Vasd=103m	oh; TCDL=6.0psf;	BCDL=6	.0psf; h=25ft;		LOAD	CASE(S) Sta	ndard		
BRACING				Cat. II; Exp E	3; Enclosed; MWF	RS (env	elope) exterio	or	1) De	ead + Sr	iow (ba	alanced): Lumbe	r Increase=1.15, I	Plate
TOP CHOP	D Structural wood sh	eathing directly applie	ed or	zone; cantile	ver left and right e	exposed	; end vertical	left	In	crease="	1.15			
	6-0-0 oc purlins, e	xcept end verticals.		and right exp	osed; Lumber DC)L=1.60	plate grip		Ur	niform Lo	oads (I	b/ft)		
BOT CHOP	D Rigid ceiling direct	ly applied or 10-0-0 or	c 5)	TCLL: ASCE	7-16; Pr=20.0 ps	f (roof LL	.: Lum DOL=1	1.15	C	Vert: 1-2	2=-60, ted Lo	2-4=-60, 4-6=-60	0, 6-7=-60, 8-12=-	-20
PEACTION	(cizo) 9-059	12_0 5 9		Plate DOL=1	.15); Pf=20.0 psf	(Lum DC	L=1.15 Plate		0.	Vert [.] 10	=-624	(F) 15=-1095 (F	-) 16=-810 (F)	
REACTION	Mox Horiz 12-220	(12=0-5-6)		DOL=1.15);	ls=1.0; Rough Cat	t B; Fully	Exp.; Ce=0.9);		17=-703	- 02 1 3 (F), 1	8=-624 (F), 19=	-624 (F), 20=-626	(F).
	Max Liplift 8682	(12)	Cs=1.00; Ct=	=1.10					21=-626	S (F)			(-),
	Max Grav 8-3892	(LC 13), 12=134 (LC (LC 20) 12=3531 (LC	(¹²⁾ 6)	Unbalanced	snow loads have	been cor	nsidered for th	nis			()			
FORCES	(lb) Maximum Co	(EC 20), 12=0001 (EC		design.	a ha an ala stan ada			P						
FURGES	(ID) - Maximum Co Tension	mpression/maximum	()	I his truss ha	is been designed	for great	er of min roof	live						
	D 1-2-0/39 2-340	33/858 3-43095/66/	4	load of 12.0	pst of 1.00 times t	h othor li	bad of 20.0 ps	st on						
	4-5=-3095/665 5-1	5=-3893/713 6-7=0/3	-, 9 οι	This truce ha		for a 10 l	he loaus.							
	2-12=-3313/692.6	-8=-3163/576	s, s)	chord live los	ad nonconcurrent	with any	other live loa	de						
BOT CHOP	D 11-12=-274/493.9	-11=-653/3072.	9)	* This truss h	as been designer	d for a liv	e load of 20 (us. Insf						
	8-9=-113/397	, ,	0)	on the bottor	n chord in all area	a where	a rectangle	,001						
WEBS	4-10=-741/3493, 5	-10=-998/286,		3-06-00 tall b	y 2-00-00 wide w	ill fit betv	veen the botto	om				, mmm	1111	
	5-9=-152/1024, 3-	10=-1156/448,		chord and ar	y other members							White CA	Dall	
	3-11=-364/1169, 2	-11=-504/2802,	10) Bearing at jo	int(s) 12, 8 consid	lers para	llel to grain va	alue			1	att	TO THE	
	6-9=-396/2600			using ANSI/	PI 1 angle to grai	in formula	a. Building				X	OTTEESE	16. 14 M	
NOTES				designer sho	ould verify capacity	y of bear	ng surface.				SE		The state	1
1) 2-ply tr	uss to be connected tog	ether with 10d	11) LGT2 Simps	on Strong-Tie con	nectors	recommended	d to		<u> </u>	U	5 /		4
(0.131"	x3") nails as follows:			connect trus	s to bearing walls	due to U	PLIFT at jt(s)	12		-				-
Top ch	ords connected as follow	ws: 2x4 - 1 row at 0-9-	0	and 8. This c	connection is for u	plift only	and does not				:	SEA	AL :	=
oc.	oc. consider lateral forces.								=		0363	222	Ξ	
Bottom	chords connected as fo	ollows: 2x8 - 2 rows	12	2) I NIS Truss IS	designed in accor	dance w	Ith the 2018	ام مر		-		. 0000		Ξ.
stagge	ed at 0-9-0 oc.			Peop 10.2 or	Residential Code		6 ROUZ. I I. I A IQI/TDI 1	na			-	N	1	-
	ninected as follows: 2x2	F - 1 10W at 0-9-0 0C.	10		Strong-Tie HTH	10a10 AP	d Girder				1.	A. En	Rich	-
	s are considered equal	y applied to all plies,		11_10dv1 1/2	Truss Single Di	20 (20-11 / Girder)	or equivalent				25	S. GIN	EFICAN	
CASE(S) section. Bly to ply connections have been				snaced at 2-	0-0 oc max startir	nd at 4-0	-12 from the l	eft	11 C A BE ST					
provided to distribute only loads noted as (F) or (B)				end to 17-3-8	B to connect truss	(es) to fro	ont face of bo	ttom				11, A. C	allenn	
unless otherwise indicated.						(<i></i>	11111	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	GGE	Common Supported Gable	1	1	Job Reference (optional)	158014114

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:28 ID:c_1DbbmY1VTEI6RK?U2gAKzN9So-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:51

Plate Offsets (X, Y): [2:Edge,0-0-1], [7:0-2-8,Edge], [12:Edge,0-0-1], [17:0-2-8,0-1-4]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 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 IRC2018	8/TPI2014	CSI TC BC WB Matrix-MSH	0.08 0.08 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 108 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS WEDGE BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. (size) 2=17-1-0, 12=17-1-0, 14=17-1-0, 15=17-1-0, 16=17-1-0, 14=17-1-0 19=17-1-0, 20=17-1-0, 21=17-1-0 22=17-1-0, 23=17-10, 27=17-1-0 22=17-1-0, 23=17-10, 27=17-1-0				DT CHORD 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2-22=-122/266, 21-2 2-22=-80/266, 19-2 8-19=-80/266, 16-2 5-16=-80/266, 14-2 2-14=-80/266 3-19=-189/47, 8-18 1-21=-137/115, 3-22 3-16=-207/139, 10-2 1-14=-115/138 roof live loads have	22=-80/ 20=-80/ 15=-80/ 15=-80/ =-189/3 2=-114/ 15=-13/	266, 266, 266, 266, 266, 5, 5-20=-207/ 132, 3/115, considered for	/139, r	 9) Gat 10) This cho 11) * Th on t 3-00 cho 12) Pro bea 2, 2 at jc 427 	ble studs s truss hi rd live lo his truss the botto 6-00 tall rd and a vide med ring plat t0 lb uplit bint 18, S	space as bee ad nor has be m choi by 2-0 ny othe chanica e capa it at join 3 lb up	ed at 2-0-0 oc. an designed for a nconcurrent with the designed for rd in all areas wh 0-00 wide will fit er members, with al connection (by bible of withstandi nt 12, 19 lb uplift Diffr at joint 20, 67 402 02 04 wayling	10.0 psf botton any other live lo a live load of 20 ere a rectangle between the boc BCDL = 10.0p others) of trus: og 32 lb uplift a at joint 19, 7 lb 'lb uplift at join	n Doads. D.Opsf } ottom Difform s to it joint o uplift it 21, o uplift
REACTIONS					this design. Wind: ASCE Vasd=103mg Cat. II; Exp E zone and C-(2-0-0 to 5-4-/ 11-8-12 to 14 cantilever lef right exposed for reactions DOL=1.60 Truss design only. For stu see Standarc or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15); I	7-16; Vult=130mph bh; TCDL=6.0psf; B i; Enclosed; MWFR C Corner(3E) -1-0-0 4, Corner(3E) -1-0-0 4, Corner(3E) and right exposed d;C-C for members shown; Lumber DC hed for wind loads i ds exposed to wind l Industry Gable En alified building desi 7-16; Pr=20.0 psf (L s=1.0; Rough Cat B	a (3-sec CDL=6 S (envi-) to 2-0 to 11-4 14-11-8 ; end v and for DL=1.60 h the pl I (norm d Deta gner as (roof LL um DC 3; Fully	ond gust) .0pst; h=25ft; elope) exterio 0, Exterior(2 3-12, Exterior(2 3-1	r V) (2N) one; d S S ss s, ble, i.1.5 ;	127 at ju and 13) This Inte R80 LOAD (Ib uplift pint 15, 1 20 lb up is truss is rrnationa 02.10.2 a CASE(S)	at joint 27 lb u blift at j desigu I Residu I Residu Star	t 22, 96 lb uplift a uplift at joint 14, 3 oint 12. ned in accordance dential Code sect erenced standard ndard	t joint 16, 66 lb 2 lb uplift at joi e with the 2018 ons R502.11.1 I ANSI/TPI 1.	and
TOP CHORD	(ib) - Maximum Compression/Maximum Cs=1.00; Tension 1-2=0/38, 2-3=-260/124, 3-4=-182/98, 5) Unbalanc 4-5=-114/68, 5-6=-108/51, 6-7=-93/71, 6) This truss 7-8=-93/71, 8-9=-108/40, 9-10=-104/47, 6) This truss 10-11=-167/79, 11-12=-263/121, 12-13=0/34 7) All plates 8) Gable red 6)					1.10 snow loads have be s been designed fo osf or 1.00 times fla on-concurrent with 2x4 MT20 unless es continuous botto	esidered for th er of min roof pad of 20.0 ps re loads. se indicated. d bearing.	iis live sf on	ve on A. GILBER						

- II plates are 2x4 MT20 u ess otherwis indicated.
- 8) Gable requires continuous bottom chord bearing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	GGR	Common Girder	1	2	Job Reference (optional)	158014115

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:28 ID:wljhIZ15f8a7I0ILuvdXqYzN95D-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

818 Soundside Road Edenton, NC 27932



Plate Offsets (X, Y): [1:Edge,0-3-7], [5:Edge,0-3-7], [9:0-5-0,0-4-12]

Scale = 1:57.1

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 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	8/TPI2014	CSI TC BC WB Matrix-MSH	0.41 0.95 0.64	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.08 -0.15 0.03	(loc) 9-10 9-10 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 229 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 *Except* 9-3:2x4 SP No.2 WEDGE Left: 2x6 SP No.2 Right: 2x6 SP No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 4-10-11 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 1=0-5-8, 5=0-5-8 Max Horiz 1=-178 (LC 36) Max Uplift 1=-493 (LC 12), 5=-569 (LC 13) Max Grav 1=4849 (LC 5), 5=5449 (LC 6) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-6213/653, 2-3=-4399/538,				2) 3) d or 4) 3) 5)	 All loads are except if note CASE(S) see provided to c unless othen Unbalanced this design. Wind: ASCE Vasd=103mp Cat. II; Exp E zone; cantile and right exp DOL=1.60 TCLL: ASCE Plate DOL=1 	 except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; cumber DOL=1.60 plate grip DOL=1.60. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp;; Ce=0.9; Cs=1.00; Ct=1.10 Vert: 8-2036 (B), 19-1036 (B), 22-1036 (B), 22-1036 (B). 								
FORCES	Max Grav 1=4849 (LC 5), 5=5449 (LC 6) (lb) - Maximum Compression/Maximum Tension 1-2=-6213/653, 2-3=-4399/538, 3-4=-4401/539 4-5=-6239/656 5-6=0/34				DOL=1.15);1 Cs=1.00; Ct= Unbalanced design. This truss ha	i; Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 18=-1036 (B), 19=-1036 (B), 20=-103 i: t=1.10 21=-1036 (B), 22=-1036 (B) i: d snow loads have been considered for this 21=-1036 (B), 22=-1036 (B)								
BOT CHORD	1-10=-523/47 7-9=-442/474 3-9=-585/522 4-7=-196/223 2-10=-193/22	712, 9-1 41, 5-7= 24, 4-9= 37, 2-9= 208	0=-523/4712, -442/4741 -1936/329, -1897/326,	8)	load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.									ROLI
NOTES 1) 2-ply truss (0.131"x3" Top chord oc. Bottom ch staggered Web conn	 to be connected together with 10d nails as follows: s connected as follows: 2x4 - 1 row at 0-9-0 ords connected as follows: 2x6 - 2 rows at 0-8-0 oc. acted as follows: 2x4 - 1 row at 0-7-0 oc. on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 10) LGT2 Simpson Strong-Tie connectors recommended connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces. 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 						om d to 1		W . (11) 1100		SEA 0363	EER		

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	н	Common	4	1	Job Reference (optional)	158014116

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:29 ID:e78gp2Ezvv02_fr?MpNd1hzNA9N-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.8	0-1-8	7-1-4	7-0-12	0-2-0	
Plate Offsets (X, Y): [2:0-3-8,Edge], [4	4:0-3-8,Edge]				

-			-						-				
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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	8/TPI2014	CSI TC BC WB Matrix-MSH	0.93 0.45 0.12	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.10 0.01	(loc) 7-8 7-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 87 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) LUBDAIADOG	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep Structural wood she 2-2-0 oc purlins, exx Rigid ceiling directly bracing. (size) 6=0-3-0, 8 Max Horiz 8=-197 (L Max Uplift 6=-56 (LC Max Grav 6=702 (LC (lb) - Maximum Com Tension 1-2=0/39, 2-3=-629/ 4-5=0/39, 2-8=-638/ 7-8=-244/412, 6-7=- 3-7=0/286, 2-7=-115	t* 8-2,6-4:2x4 SP No athing directly applie cept end verticals. applied or 10-0-0 oc 3=0-3-0 C 12) C 15), 8=-56 (LC 14) C 22), 8=702 (LC 21) ipression/Maximum 133, 3-4=-629/133, 160, 4-6=-638/160 169/358 0/280, 4-7=-124/281	4) 5).2 (d or 6) (, 7) 8)) 9)	Unbalanced design. This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss fa on the bottor 3-06-00 tall b chord and ar One H2.5A S recommende UPLIFT at jt(does not cor One RT8A M truss to bear connection is forces. International R802.10.2 ai	snow loads have b s been designed fi psf or 1.00 times fl on-concurrent with is been designed fi ad nonconcurrent v has been designed in chord in all areas by 2-00-00 wide will by other members. Simpson Strong-Tie do to connect truss (s) 8. This connecti sider lateral forces fliTek connectors re ing walls due to Uf s for uplift only and designed in accord Residential Code nd referenced stan	peen cor or great at roof le other li or a 10. vith any for a liv s where ll fit betw e conne to bear ion is for s. ecomme PLIFT at does no dance w sections dancd AT	hsidered for the er of min roof bad of 20.0 p ve loads. D psf bottom other live loa e load of 20.0 a rectangle veen the both ctors ing walls due r uplift only ar ended to conr i jt(s) 6. This of consider la s R502.11.1 a USI/TPI 1.	nis live sf on ds. Dpsf om to nd teral ind					111,,
 this design Wind: ASC Vasd=103 Cost III: Exit 	DE 7-16; Vult=130mph mph; TCDL=6.0psf; Bi	(3-second gust) CDL=6.0psf; h=25ft;	L(DAD CASE(S)	Standard						ALL IN	CA CA	ROUT

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 4-2-12, Exterior(2R) 4-2-12 to 10-2-12, Interior (1) 10-2-12 to 12-4-0, Exterior(2E) 12-4-0 to 15-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10



818 Soundside Road Edenton, NC 27932 Page: 1

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	HGE	Common Supported Gable	1	1	Job Reference (optional)	158014117

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:29 ID:xw0T8pw1GcctEWGpHeOIR?zNA9o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.1

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC2018	3/TPI2014	CSI TC BC WB Matrix-MR	0.17 0.09 0.33	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: 97 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 12=14-2-(15=14-2-(18=14-2-(Max Horiz 20=-197 (Max Uplift 12=-124 (14=-73 (L 19=-141 (Max Grav 12=183 (L 14=212 (L 18=212 (L 20=200 (L)	athing directly applied cept end verticals. applied or 6-0-0 oc), 13=14-2-0, 14=14-), 16=14-2-0, 17=14-), 19=14-2-0, 20=14- LC 12) LC 11), 13=-136 (LC C 14), 13=-75 (LC 15 C 14), 13=-75 (LC 16 C 14), 13=202 (LC 2 C 24), 13=202 (LC 2 C 22), 15=271 (LC 2 C 21), 19=215 (LC 1 C 25)	1) 2) d or 2-0, 2-0, 3) (15), 5), 4), 10) 25), 22), 5), 21), (2), 6)	Unbalanced this design. Wind: ASCE Vasd=103mp Cat. II; Exp E zone and C- 2-1-8 to 4-2- (2N) 10-2-12 zone; cantilee and right exp MWFRS for r grip DOL=1.6 Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct= Unbalanced design. This truss ha	roof live loads hav 7-16; Vult=130mp h; TCDL=6.0psf; I i; Enclosed; MWFI C Corner(3E) -0-11 12, Corner(3E) -0-11 12, Corner(3E) -0-11 12, Corner(3E) -0-2 to 12-4-0, Corner ver left and right e osed;C-C for men eactions shown; L 50 hed for wind loads ds exposed to wind loads to wind loads to wind loads balding dee 7-16; Pr=20.0 psf (.15); Pf=20.0 psf (.15); Pf=20.0 psf (.10); Rough Cat 1.10 snow loads have t	e been of h (3-sec BCDL=6 RS (envo- 2-12 to 1 (3E) 12 xposed : bers an .umber I in the pl d (norm nd Detai signer as f (roof LL Lum DC B; Fully been cor	considered for ond gust) .0psf, h=25ft; elope) exterion 1-8, Exterior(2 0-2-12, Exteri 4-0 to 15-4-0 end vertical h d forces & DOL=1.60 plat ane of the trus al to the face) is as applicab s per ANS/ITP .: Lum DOL=1 $J_L=1.15$ Plate Exp.; Ce=0.9 asidered for th er of min roof 1	N) or eft e ss le, 11. 15 s s ve	12) One recc UPL con forc 13) N/A 14) This Inte R80 LOAD (MECH mmenco LIFT at j nection es. truss is rnationa (2.10.2 a cASE(S	ANICA led to c t(s) 20, is for u c desig l Resic and ref) Star	L connector connect truss to I 12, 17, 18, 19, plift only and do ned in accordan dential Code sec erenced standar ndard	bearing walls due 15, 14, and 13. Thes not consider la ce with the 2018 tions R502.11.1 a d ANSI/TPI 1.	to nis .teral เกd
FORCES	(Ib) - Maximum Com Tension 2-20=-151/109, 1-2= 3-4=-84/141, 4-5=-1 6-7=-148/337, 7-8=-	pression/Maximum :0/39, 2-3=-133/133, 01/248, 5-6=-148/337 101/248, 8-9=-70/14 2/20, 4-9 42, 120/	 5) Instantas has been designed for greater to file and of 12.0 ps for 1.00 times flat roof load of 20.0 ps for overhangs non-concurrent with other live loads. 7) All plates are 2x4 MT20 unless otherwise indicated. 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 9) Gable studs spaced at 2-0-0 oc. 									OPTH CA	ROLIN	5
BOT CHORD	9-10=-114/116, 10-1 19-20=-99/98, 18-19 16-17=-99/98, 15-16 13-14=-99/98, 12-13	1=0/39, 10-12=-139/)=-99/98, 17-18=-99/§)=-99/98, 14-15=-99/§)=-99/98	98, ^{98,} 11) This truss ha chord live loa) * This truss h	s been designed f id nonconcurrent v as been designed	or a 10.0 vith any for a liv) psf bottom other live load e load of 20.0	ls. osf				SEA 0363	L 22	NULLI I
WEBS	6-16=-350/90, 5-17= 4-18=-170/142, 3-19 7-15=-231/116, 8-14 9-13=-129/118	231/116, ⊨134/118, ⊨170/142,		3-06-00 tall b chord and an	y 2-00-00 wide wi y other members.	ll fit betw	veen the botto	m				A RNGIN	EERER	III.
NOTES												A. C	allbrinn	



April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	I	Half Hip	1	1	Job Reference (optional)	158014118

-0-10-8

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:30 ID:SW4Vi3ynHQFvv?t5IQ5eZDzN9lw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:33.3

Plate Offsets (X, Y): [2:0-2-12,Edge]

			-										
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.55	Vert(LL)	0.11	6-9	>708	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.65	Vert(CT)	-0.10	6-9	>822	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.22	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018	/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 28 lb	FT = 20%
LUMBER			4)	Unbalanced	snow loads have b	een cor	nsidered for t	this					
TOP CHORD	2x4 SP No.2			design.									
BOT CHORD	2x4 SP No.2		5)	This truss ha	s been designed for	or great	er of min roo	of live					
WEBS	2x4 SP No.3			load of 12.0	osf or 1.00 times fla	at roof le	pad of 20.0 p	osf on					
BRACING			•	overhangs n	on-concurrent with	other In	/e loads.						
TOP CHORD	Structural wood shea	athing directly applie	dor 6)	Provide adeo	uate drainage to p	revent	water pondin	ıg.					
	6-0-0 oc purlins, exc	cept end verticals, ar	nd ()	I NIS TRUSS Na	s been designed to	ora 10.0	J psr bottom						
	2-0-0 oc purlins: 3-4		0)	8) * This truss has been designed for a live load of 20 Onst									
BOT CHORD	Rigid ceiling directly	applied or 7-6-15 oc	; 0)	on the bottom chord in all areas where a rectangle									
				3-06-00 tall b	v 2-00-00 wide wil	l fit betv	veen the bott	tom					
REACTIONS	(SIZE) 2=0-3-0, 5)=U-1-8		chord and ar	y other members.								
	Max Unlift 2 120 (LC	10) C 10) E 105 (LC 1)	9)	Bearing at jo	int(s) 5 considers p	barallel t	o grain value	е					
	Max Gray $2=408$ (10)	C 10), 5=-105 (LC 10 C 36) 5=-290 (LC 36)	0)	using ANSI/TPI 1 angle to grain formula. Building									
FORCES		proposion/Movimum		designer sho	uld verify capacity	of bear	ng surface.						
FURGES	(ib) - Maximum Com Tension	pression/maximum	10)	Provide mec	hanical connection	(by oth	ers) of truss	to					
TOP CHORD	1-2=0/17 2-3=-331/4	418 3-4=0/0 4-5=-3	8/30 11	Dearing plate	e at joint(s) 5.		atoro						
BOT CHORD	2-6=-446/284. 5-6=-3	393/256	0,00 II,	11) One H2.5A Simpson Strong-Tie connectors									
WEBS	3-6=-539/279, 3-5=-4	479/733		UPLIFT at it(s) 2 and 5 This co	nnectio	n is for uplift	only					
NOTES				and does not	t consider lateral fo	rces.	in to rot up int	0,					
1) Unbalance	ed roof live loads have	been considered for	12	This truss is	designed in accord	lance w	ith the 2018					minin	1111.
this design	۱.			International	Residential Code s	sections	R502.11.1	and				IN'TH CA	ROUL
2) Wind: ASC	CE 7-16; Vult=130mph	(3-second gust)		R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.				- 5	R	- Chile
Vasd=103	mph; TCDL=6.0psf; B0	CDL=6.0psf; h=25ft;	13)	Graphical pu	rlin representation	does no	ot depict the	size		1	5	2 TAS	12 san
Cat. II; Ex	p B; Enclosed; MWFR	S (envelope) exterior	r .	or the orienta	ation of the purlin a	long the	e top and/or				2R	.ay	
zone and	C-C Exterior(2E) -0-10	-8 to 2-1-8, Exterior(2R)	bottom chord	1.					-		2	K : 3
2-1-8 to 5-	9-8, Exterior(2E) 5-9-8	to 6-8-12 zone;	LO	AD CASE(S)	Standard					-		CEA	1 1 2
cantilever	ent and right exposed	; end ventical left	ore							=	:	SLA	5. : :
and forces	& MWERS for reaction									0363	22 : =		
DOI = 1.60 plate grip $DOI = 1.60$										-	3		1 3
3) TCLL: ASCE 7-16: Pr=20.0 psf (roof LL: Lum DOL=1.15											-	·	A 1 3
Plate DOL	=1.15); Pf=20.0 psf (Li	um DOL=1.15 Plate	-								2.0	NOIN	EEM AN
DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9;							the chain						
Cs=1.00; 0	Ct=1.10											AG	ILBUT

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



G mmm April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	IGR	Half Hip Girder	1	1	Job Reference (optional)	158014119

3-9-8

3-9-8

-0-10-8

0-10-8

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:30 ID:wFhk21Nk1AgxcO2prHDrUbzN9IN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-10-8

3-1-0

Page: 1



NAILED Special



Scale = 1:34

Plate Offsets (X, Y): [2:0-2-12,Edge]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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/TF	912014	CSI TC BC WB Matrix-MP	0.30 0.46 0.26	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.01	(loc) 6-9 6-9 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 28 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHOR BOT CHOR WEBS BRACING TOP CHOR BOT CHOR REACTION	 D 2x4 SP No.2 D 2x4 SP No.2 D 2x4 SP No.3 D Structural wood she: 5-6-4 oc purlins, exi 2-0-0 oc purlins: 3-4 D Rigid ceiling directly bracing. S (size) 2=0-3-0, 5 Max Horiz 2=46 (LC Max Uplift 2=-165 (L) Max Grav 2=511 (LC (Ib) Maximum Communication) 	athing directly applie cept end verticals, ar applied or 10-0-0 oc 5=0-1-8 8) C 8), 5=-161 (LC 8) C 34), 5=-503 (LC 33)	5) Th lo: ov 6) Pr 7) Th d or ch 1d 8) * 7 or 3- ch 9) Be us de 10) Pr be	his truss has ad of 12.0 p verhangs no rovide adeq his truss has nord live loa This truss has nord struss has nord and an earing at joi sing ANSI/T esigner sho rovide mech earing plate	s been designed fo ssf or 1.00 times fla on-concurrent with of uate drainage to pr s been designed fo d nonconcurrent wi as been designed fo ochord in all areas y 2-00-00 wide will y other members. nt(s) 5 considers pr Pl 1 angle to grain uld verify capacity of nanical connection at joint(s) 5.	r greate t roof lo other liv revent v r a 10.0 ith any for a liv where fit betw arallel t formula of beari (by oth	er of min roof pad of 20.0 p ve loads. water ponding) psf bottom other live load e load of 20.1 a rectangle veen the bott o grain value a. Building ng surface. ers) of truss t	f live g. Ids. Opsf om	1) De Inc Ur Cc	ead + Sn crease=' iiform Lo Vert: 1-: oncentra Vert: 6=	now (ba 1.15 bads (lt 3=-60, 1 ted Loa -95 (F)	lanced): Lumber o/ft) 3-4=-60, 5-7=-20 ads (Ib) , 3=-147 (F), 11=	Increase=1 -69 (F), 12=	.15, Plate :-42 (F)
 FOP CHOR 3OT CHOR WEBS NOTES 1) Unbalar this des 2) Wind: A Vasd=1: Cat. II; B zone; ca exposed DOL=1. 3) TCLL: A Plate D0 DOL=1. Cs=1.00 4) Unbalar design. 	 (b) - Washidin Com Tension D 1-2=0/17, 2-3=-1019 4-5=-153/48 D 2-6=-302/969, 5-6=-: 3-6=-61/218, 3-5=-94 need roof live loads have ign. SCE 7-16; Vult=130mph 03mph; TCDL=6.0psf; BK Exp B; Enclosed; MWFR3 antilever left and right exp (c) porch left and right exp 60 plate grip DOL=1.60 SSCE 7-16; Pr=20.0 psf (LI 15); Is=1.0; Rough Cat B 0; Ct=1.10 need snow loads have be 	//301, 3-4=0/0, 293/938 89/308 been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior posed; end vertical le posed; Lumber roof LL: Lum DOL=1 um DOL=1.15 Plate ; Fully Exp.; Ce=0.9; en considered for thi	ne H2:5A S ecommende PLIFT at jt(: nd does not his truss is o ternational 802.10.2 an raphical put the orienta ottom chord VAILED" ind 0.148"x3.25" anger(s) or rovided suffi down and 7 own and 70 own and 70 ow	Impson Strong-Tie d to connect truss t s) 2 and 5. This cor consider lateral for designed in accorda Residential Code s d referenced stand lin representation o tion of the purlin ald citates 3-10d (0.14&) toe-nails per NDS other connection d citent to support coi 106 lb up at 3-9-8 on t ion of such connect of others. CASE(S) section, lo re noted as front (F Standard	connection to bear innection ces. ance w ections lard AN does no ong the 3"x3") of 5 guidlin evice(s ncentra on top oottom tion de oads ap) or ba	tors ng walls due n is for uplift R502.11.1 a ISI/TPI 1. t depict the s top and/or or 3-12d nes.) shall be ted load(s) 1 chord, and 95 chord. The vice(s) is the oplied to the s ck (B).	to only and size 66 5 lb face		Contraction of the		SEA 0363	RO L 22 EER.R.R.		

- Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
 - WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



G mmm April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	J	Monopitch	8	1	Job Reference (optional)	158014120

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:31 ID:QXHpS7hUJzhRzG48rfEnUnzN9or-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



3x5 =



Scale = 1:29.2

Plate Offsets (X, Y): [2:0-2-12,Edge]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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	8/TPI2014	CSI TC BC WB Matrix-MP	0.63 0.57 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.18 0.15 0.00	(loc) 4-7 4-7 2	l/defl >373 >467 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 21 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD FORCES TOP CHORD BOT CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 5-10-8 oc purlins, ex Rigid ceiling directly a bracing. (size) 2=0-3-0, 4= Max Horiz 2=63 (LC 1 Max Uplift 2=-114 (LC Max Grav 2=381 (LC (lb) - Maximum Comp Tension 1-2=0/18, 2-3=-202/2 2-4=-282/183	athing directly applie ccept end verticals. applied or 10-0-0 oc =0-1-8 10) C 10), 4=-91 (LC 10 5 21), 4=295 (LC 21) pression/Maximum 253, 3-4=-204/203	5) 6) ed or 7) 5 8) 9) 10	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Bearing at jo using ANSI/7 designer sho Provide mec bearing plate One H2.5A S recommende UPLIFT at jt(and does no) This truss is International R802.10.2 at	s been designed ad nonconcurrent has been designee n chord in all area y 2-00-00 wide w y other members int(s) 4 considers TPI 1 angle to grai uld verify capacity hanical connection at joint(s) 4. Simpson Strong-Ti ed to connect truss s) 2 and 4. This c t consider lateral f designed in accor Residential Code nd referenced star	for a 10.0 with any d for a liv is where ill fit betw parallel t in formula y of beari n (by oth ie connet s to beari onnection orces. dance w sections ndard AN	D psf bottom other live loa e load of 20.0 a rectangle veen the bott o grain value a. Building ng surface. ers) of truss t ctors ng walls due h is for uplift th the 2018 R502.11.1 a ISI/TPI 1.	ids. Opsf om to to and						
NOTES 1) Wind: AS(Vasd=103 Cat. II; Ex zone and 2.1.8 to 2	CE 7-16; Vult=130mph (3mph; TCDL=6.0psf; BC p B; Enclosed; MWFRS C-C Exterior(2E) -0-10-1 9 12 Extorior(2E) 2.8 1	(3-second gust) CDL=6.0psf; h=25ft; 6 (envelope) exterior 8 to 2-1-8, Interior (r 1)	DAD CASE(S)	Standard							TH CA	Route	

- -12, Exterior(2E) 2-8-12 to 5-8-12 cantilever left and right exposed ; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 2)
- Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 4) load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.



SEAL

036322

VIIIIIIIIIII

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	JSE	Monopitch	1	1	Job Reference (optional)	158014121

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:31 ID:MNLjkAJPs7f_8Ld?zxfHB1zN9pL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



5-10-8 5-9-0 0-1-8 5-9-0

Scale = 1:29.2

Plate Offsets (X, Y): [2:0-2-12,Edge]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCLL	(psf) 20.0 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 IRC2018	3/TPI2014	CSI TC BC WB Matrix-MP	0.54 0.58 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.18 -0.16 0.00	(loc) 6-9 6-9 2	l/defl >374 >431 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 22 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Wind: ASI Vasd=100 Cat. II; Ex zone and 2-1-8 to 2 cantilever right expo members Lumber D 2) Truss dei only. For see Stanc or consult	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood she 5-10-8 oc purlins, e Rigid ceiling directly bracing. (size) 2=0-3-0, 5 Max Horiz 2=60 (LC Max Uplift 2=-118 (L Max Grav 2=381 (LC (lb) - Maximum Com Tension 1-2=0/18, 2-3=-208/; 4-5=-166/198 2-6=-268/183, 5-6=- 3-6=-87/51 CE 7-16; Vult=130mph imph; TCDL=6.0psf; Bd p B; Enclosed; MWFRS C-C Exterior(2E) -0-10 8-12, Exterior(2E) 2-8- left and right exposed sed; porch left and righ and forces & MWFRS OL=1.60 plate grip DO signed for wind loads ir studs exposed to wind lard Industry Gable En- qualified building design	athing directly applie xcept end verticals. applied or 10-0-0 oc 5=0-1-8 13) C 10), 5=-87 (LC 10) C 21), 5=295 (LC 21) pression/Maximum 266, 3-4=-27/36, 25/27 (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterion -8 to 2-1-8, Interior (-12 to 5-8-12 zone; ; end vertical left and the exposed;C-C for for reactions shown; I=1.60 he plane of the true (normal to the face) d Details as applicab gner as per ANSI/TP	3) 4) d or 5) 5 6) 7) 8) 9) 10 11 12 11 12 12 12 12 12 12 12	TCLL: ASCE Plate DOL=1 DOL=1.15); 1 Cs=1.00; Ct= Unbalanced design. This truss ha load of 12.01 overhangs n Gable studs This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Bearing at jo using ANSI' designer sho Provide mec bearing plate) One H2.5A S recommende UPLIFT at jt(and does noi) This truss is International R802.10.2 at DAD CASE(S)	7-16; Pr=20.0 ps 15); Pf=20.0 ps s=1.0; Rough Car 110 snow loads have s been designed i ps or 1.00 times f on-concurrent with spaced at 2-0-0 o s been designed ad nonconcurrent ias been designed ad nonconcurrent ias been designed ad nonconcurrent ias been designed in chord in all area y 2-00-00 wide w be other members int(s) 5 considers TPI 1 angle to gradity hanical connection a tijoint(s) 5. Simpson Strong-Tri- sd to conned trus; s) 2 and 5. This c consider lateral f designed in accor Residential Code nd referenced star Standard	f (roof LI (Lum DC t B; Fully been cool for great far roof I n other li c. for a 10. with any d for a 10. with any d for a 10. with any d for a liv is where ill fit betv. parallel in formul y of bear n (by oth for conne s to bear onnectio forces w sections indard AN	:: Lum DOL= DL=1.15 Plate Exp.; Ce=0. hsidered for t er of min roo bad of 20.0 p ve loads. D psf bottom other live loa e load of 20. a rectangle veen the bott to grain value a. Building ing surface. ers) of truss ctors ing walls due n is for uplift ith the 2018 s R502.11.1 a JSI/TPI 1.	1.15 e 9; his f live sof on ads. Opsf to to to only and				SEA 0363	L 22 EER.R.K.	Mannun

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G mmm April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	к	Jack-Open	22	1	Job Reference (optional)	158014122

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:31 ID:bJrixAuCQBiXrpOBzRp3hszNA8Y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31

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	0.58	Vert(LL)	0.03	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.40	Vert(CT)	-0.03	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	-0.06	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/T	PI2014	Matrix-MR								
BCDL	10.0											Weight: 17 lb	FT = 20%
LUMBER			6) *	This truss h	nas been designed	d for a liv	e load of 20.	0psf					
TOP CHORD	2x4 SP No.2		0	on the bottor	n chord in all area	as where	a rectangle						
BOT CHORD	2x4 SP No.2		3	3-06-00 tall b	oy 2-00-00 wide w	vill fit betv	veen the bott	om					
WEBS	2x4 SP No.3		С	chord and ar	ny other members	S.							
BRACING			7) F	Refer to gird	er(s) for truss to tr	russ conr	nections.						
TOP CHORD	Structural wood she	athing directly appli	edor ^{8) F}	Provide mec	hanical connectio	on (by oth	ers) of truss	to					
	4-0-0 oc purlins, ex	cept end verticals.	0	pearing plate	e capable of withs	standing 9	is uplift at	joint					
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 9 This truss is designed in accordance with the 2018 International Residential Code sections R502 11 1 and													
REACTIONS (size) 3= Mechanical, 4= Mechanical, REACTIONS (size) 3= Mechanical, 4= Mechanical,													
REACTIONS	5=0-5-8		^{ar,} F	R802.10.2 a	nd referenced sta	ndard AN	ISI/TPI 1.						
	Max Horiz 5=129 (LC	C 14)	LOAI	D CASE(S)	Standard								
	Max Uplift 3=-99 (LC	C 14), 4=-8 (LC 14)											
	Max Grav 3=178 (L0	C 21), 4=73 (LC 7),	5=307										
	(LC 21)												
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	2-5=-283/71, 1-2=0/	39, 2-3=-142/88											
BOT CHORD	4-5=0/0												
NOTES													
1) Wind: AS	CE 7-16; Vult=130mph	(3-second gust)											
	vn B: Enclosed: MW/ER	S (envelope) exterio	hr.										
zone and	C-C Exterior(2E) zone	· cantilever left and	riaht									IN TH CA	ROUL
exposed	: end vertical left and rid	aht exposed:C-C for	gin								N	A	an Inter
members	and forces & MWFRS	for reactions shown	;							/	32	C. FESS	This and
Lumber D	DOL=1.60 plate grip DO	DL=1.60								4			2. All
2) TCLL: AS	SCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=	1.15							-		.4	1: -
Plate DO	L=1.15); Pf=20.0 psf (L	um DOL=1.15 Plate	1							Ξ		SEA	1 1 E
DOL=1.1	5); Is=1.0; Rough Cat E	3; Fully Exp.; Ce=0.9);							=	- 1	0000	
Cs=1.00;	Ct=1.10									1		0363	22 : 3
3) Unbalanc	ced snow loads have be					-	0		1 2				
aesign.	a haa haan daalay! f	a supplier of mis	live								2	·	all S
4) I NIS Truss	s has been designed for	r greater of min foot	live								3.5	NGIN	FERINA
	2.0 psi 01 1.00 times ha	ther live loads									14	710	The second
5) This trues	s has been designed for	r a 10 0 nsf hottom										IL A G	ILDUN
chord live	load nonconcurrent wi	ith any other live loa	eb									111111	111111

April 28,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	KSE	Jack-Open Supported Gable	1	1	Job Reference (optional)	158014123

Run: 8.53 E Oct 7 2022 Print: 8.530 E Oct 7 2022 MiTek Industries, Inc. Fri Apr 28 08:16:01 ID:uOExrImxn7RxeGdGOLejHIzNA8i-XxNpEhbKSfNqo0c5i4EVAKZUBqen_D7L1pRapBzMF3j Page: 1



4-0-0

Soal	<u> </u>	1.2	75
Judi	C =	1	1

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDI	(psf) 20.0 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-MR	0.43 0.22 0.09	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 6-7 6-7 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190	
SCDL	10.0		-									vveight: 27 lb	FI = 20%	
LUMBER TOP CHORD 30T CHORD WEBS THERS BRACING TOP CHORD 30T CHORD REACTIONS FORCES NOTES 1) Wind: AS(Vasd=103 Cat. II; Ex	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood shea 4-0-0 oc purlins, exx Rigid ceiling directly bracing. (lb/size) 5=63/0-3- 7=141/4-0 Max Horiz 7=162 (LC Max Uplift 5=-25 (LC 7=-52 (LC 7=-52 (LC 7=-52 (LC 7=-52 (LC (lb) - Max. Comp./Ma (lb) or less except wi 3-6=-210/308 CE 7-16; Vult=130mph mph; TCDL=6.0psf; BK p B; Enclosed; MWFR3	athing directly applie cept end verticals. applied or 10-0-0 oc 8, 6=155/4-0-0, 0-0 2 13) 11), 6=-143 (LC 14) 21), 6=252 (LC 21), 2 29) ax. Ten All forces 2 hen shown. (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior	5) 6) 7) 8) 9) 10) 10)	This truss ha load of 12.0 p overhangs no Truss to be fi braced again Gable studs : This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Bearings are capacity of 50	s been designed for on-concurrent with ully sheathed from ist lateral movement spaced at 2-0-0 oc s been designed for ad nonconcurrent w nas been designed n chord in all areas by 2-00-00 wide will y other members. assumed to be: Jo 65 psi.	or great at roof k other liv one fac or a 10.0 in any for a liv or a 10.0 in a liv or a l	er of min roof pad of 20.0 ps /e loads. e or securely iagonal web) 0 psf bottom other live loa e load of 20.0 a rectangle /een the botto P No.2 crushi	live sf on ds.)psf om ng				WTH CA	ROI	·. ·
zone and exposed ; members Lumber D	C-C Corner(3E) zone; end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO	cantilever left and ric ght exposed;C-C for for reactions shown; L=1.60	jht							Guin	i'	ORIFESS		
 Truss des only. For see Stand or consult 	signed for wind loads ir studs exposed to wind lard Industry Gable End qualified building desid	n the plane of the trus (normal to the face) d Details as applicab gner as per ANSI/TP	ss , le, I 1.									SEA 0363	L 22	111111
3) TCLL: AS Plate DOL DOL=1.15 Cs=1.00;	CE 7-16; Pr=20.0 psf (l _=1.15); Pf=20.0 psf (L 5); Is=1.0; Rough Cat B Ct=1.10	roof LL: Lum DOL=1 um DOL=1.15 Plate ; Fully Exp.; Ce=0.9;	.15									S C NGIN	EER	and the second s
 Unbalance design. 	ed snow loads have be	en considered for th	is									A. G	28,2023	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

A MITek Atfiliate B18 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	L	Jack-Open	2	1	Job Reference (optional)	158014124

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:32 ID:0VeXzj3w0Ub2B1x69gI2EJzN9oM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







3x5 =

3-9-8

Scale = 1:24.7

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

	, .														
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.15		TC	0.22	Vert(LL)	0.03	4-7	>999	240	MT20	244/190	
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.22	Vert(CT)	0.03	4-7	>999	180			
TCDL		10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	2	n/a	n/a			
BCLL		0.0*	Code	IRC2018/T	PI2014	Matrix-MP									
BCDL		10.0											Weight: 13 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Structural w 3-9-8 oc pur Rigid ceiling bracing. (size) 2: Max Horiz 2: Max Horiz 2: Max Uplift 2: Max Grav 2: 4:	2 	athing directly applied applied or 10-0-0 oc = Mechanical, 4= al 10), 3=-39 (LC 10), 10), 3=-39 (LC 21), 7)	5) T c 6) * o 7) R 8) P b 3 9) C 7 8 9) C 10) T 10) T 10	his truss ha hord live loa This truss h n the botton -06-00 tall b hord and an tefer to girde trovide meci earing plate and 18 lb u one H2.5A S ecommende IPLIFT at jt(oes not con his truss is o ternational	s been designed f ad nonconcurrent v has been designed in chord in all areas by 2-00-00 wide wi yy other members. er(s) for truss to tru- hanical connection capable of withsta plift at joint 4. Simpson Strong-Tie d to connect truss s) 2. This connect sider lateral forces designed in accord Residential Code	or a 10.0 with any s where II fit betv uss conre to (by oth anding 3 e conne to bear ion is for 3. dance w sections	D psf bottom other live load e load of 20.0 a rectangle veen the botto nections. ers) of truss to 9 lb uplift at jo ctors ing walls due uplift only an ith the 2018 R 502.11.1 a	ds. Dpsf om oint to id nd						
FORCES	(lb) - Maxim Tension	um Com	pression/Maximum	R	802.10.2 ar	nd referenced stan	idard AN	ISI/TPI 1.							
TOP CHORD	1-2=0/18, 2-	3=-113/1	46	LUAI	J CASE(S)	Stanuaru									
BOT CHORD	2-4=-165/95														
NOTES															
 Wind: AS(Vasd=103 Cat. II; Ex zone and exposed; and right 6 MWFRS f grip DOL= TCLL: AS Plate DOI DOL=1.16 Cs=1.00; Unbalance design. This truss load of 12 overhangs 	CE 7-16; Vult= Smph; TCDL=6 p; B; Enclosed; C-C Exterior(2 end vertical le exposed;C-C fc for reactions sh =1.60 CE 7-16; Pr=20 =1.15); Pf=20 5); Is=1.0; Roug Ct=1.10 ed snow loads has been desi :0 psf or 1.00 t s non-concurre	130mph .0psf; BC ; MWFRS (E) zone; fft and rig or memb nown; Lui 0.0 psf (IL gh Cat B have be igned for times flat ent with o	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rig ht exposed; porch le ers and forces & mber DOL=1.60 plate coof LL: Lum DOL=1. Jum DOL=1.15 Plate ; Fully Exp.; Ce=0.9; en considered for this greater of min roof li roof load of 20.0 psf ther live loads.	ght ft 15 S ve on							Month March		SEA 0363	L 22 EEER ILBER 128,202:	

ENGINEERING BY ENGINEERING BY AMITEK Atfiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	М	Monopitch	9	1	Job Reference (optional)	158014125

2-10-8

2-10-8

12 3 Г

-0-10-8

0-10-8

Carter Components (Sanford), Sanford, NC - 27332

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:32 ID:5kfnl3EnG04C0h4kyiUr4bzNAIQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 II

Page: 1



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	MSE	Monopitch Structural Gable	2	1	Job Reference (optional)	158014126

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:33 ID:Z6euozdQ2fmI0?F70Ca722zNAJC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Pa





Scale = 1:26.9

Plate Offsets (X, Y): [2:0-2-12,Edge]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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	8/TPI2014	CSI TC BC WB Matrix-MP	0.10 0.11 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.01 0.01 0.00	(loc) 4-7 4-7 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 11 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 2-10-8 oc purlins, e Rigid ceiling directly bracing. (size) 2=0-3-0, 4 Max Horiz 2=31 (LC Max Uplift 2=-77 (LC Max Grav 2=221 (LC (lb) - Maximum Com Tension 1-2=0/17, 2-3=-68/9: 2-4=-92/52	athing directly applie xcept end verticals. applied or 10-0-0 oc 4=0-1-8 13) 2 10), 4=-37 (LC 10) 2 21), 4=127 (LC 21) ipression/Maximum 3, 3-4=-83/94	5) 6) 7) d or 8) 9) 10 11	This truss ha load of 12.0 µ overhangs ne Gable studs This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and ar Bearing at jo using ANSI/I designer sho)) Provide mecl bearing plate) One H2.5A S recommende UPLIFT at jt(s been designed for posf or 1.00 times fla on-concurrent with spaced at 2-0-0 oc s been designed for ad nonconcurrent w has been designed n chord in all areas by 2-00-00 wide will by other members. int(s) 4 considers p PI 1 angle to grain uld verify capacity hanical connection e at joint(s) 4. Simpson Strong-Tie d to connect truss s) 4 and 2. This con	or greate at roof lo other liv or a 10.0 vith any for a liv where fit betw arallel t formula of beari (by oth connection	er of min roof pad of 20.0 ps ve loads.) psf bottom other live load e load of 20.0 a rectangle veen the botto o grain value a. Building ng surface. ers) of truss to ctors ng walls due to n is for uplift o	live sf on ds.)psf om to				-		
NOTES 1) Wind: ASC Vasd-103	CE 7-16; Vult=130mph	(3-second gust)	12	and does not ?) This truss is International	t consider lateral fo designed in accord Residential Code s	rces. ance w sections	ith the 2018 R502.11.1 a	nd						

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.





Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	PB1	Piggyback	9	1	Job Reference (optional)	158014127

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:33 ID:kVDou0Mv0JFIrBkEJkmVwqzN8gz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-0-3





Scale = 1.25.3

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

													-	
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 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	018/TPI2014	CSI TC BC WB Matrix-MP	0.05 0.05 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 13 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD	R HORD 2x4 SP No.2 HORD 2x4 SP No.2 NG HORD Structural wood sheathing directly applied or 4-11-5 oc purlins. HORD Rigid ceiling directly applied or 10-0 oc bracing. IONS (size) 2=3-0-3, 4=3-0-3, 6=3-0-3,			ed or	 TCLL: ASCE Plate DOL= DOL=1.15); Cs=1.00; Ct Unbalanced design. This truss ha load of 12.0 overhangs n) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 i) Unbalanced snow loads have been considered for this design. i) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. 								
REACTIONS	(size) 2= 10 Max Horiz 2= Max Uplift 2= 6= Max Grav 2= 6=	=3-0-3, 4)=3-0-3 =-17 (LC =-24 (LC =-24 (LC =192 (LC =192 (LC	I=3-0-3, 6=3-0-3, 15), 6=-17 (LC 15), 14), 4=-19 (LC 15), 14), 10=-19 (LC 15), 21), 4=201 (LC 22) 21), 10=201 (LC 22))), 2)	 7) Gable study spaced at 4-0-0 oc. 9) This truss has been designed for a 10.0 psf bottom chord live load on concurrent 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 2 00 0.0 tell but 20.00 00 will 6 bottome to the terms 									
FORCES	(lb) - Maximu Tension 1-2=0/23_2-2	um Com 3=-101/!	pression/Maximum		chord and a 11) One MECH	any other members.								
BOT CHORD	4-5=0/23 2-4=-1/88	0- 101/	, , , , , , , , , , , , , , , , , , , ,		UPLIFT at jt and does no	(s) 2 and 4. This contact fuse (s) consider lateral for	onnectio prces.	n is for uplift	only					
NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=103 Cat. II: Ex	FES 12) This truss i Unbalanced roof live loads have been considered for Internationa this design. R802.10.2 Wind: ASCE 7-16; Vult=130mph (3-second gust) 13) See Standa Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Detail for C Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior consult quarterion				designed in accor Residential Code nd referenced star rd Industry Piggyba nnection to base t ified building desig	dance w sections ndard Af ack Trus russ as ner.	vith the 2018 s R502.11.1 a NSI/TPI 1. s Connection applicable, or	and		4	A.	OR OFES	ROLIN	

- Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- LOAD CASE(S) Standard



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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V1	Valley	1	1	Job Reference (optional)	158014128

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:33 ID:FrxVKAx4L?F?QpgMi5VKX5zN9i4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



WFBS NOTES

FORCES

Loading

TCLL (roof)

Snow (Pf)

LUMBER

OTHERS

BRACING

TCDL

BCLL

BCDL

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Exterior(2R) 3-0-8 to 8-7-8, Exterior(2E) 8-7-8 to 11-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

C Manana and Andrews SEAL 036322





G mm April 28,2023 11111111111

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V2	Valley	1	1	Job Reference (optional)	158014129

3-9-8

3-9-8

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:34 ID:3?ImbE?rxr?98k8W3McknMzN9i_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-0-1

3-2-9

7-7-0

0-6-15



Page: 1





7-7-0



Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.24 0.26 0.07	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: 24 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 7-7-0 oc purlins. Rigid ceiling directly bracing. (size) 1=7-7-0, 3 Max Horiz 1=-28 (LC Max Uplift 1=-10 (LC 4=-40 (LC Max Grav 1=112 (LC 4=506 (LC	athing directly applied applied or 6-0-0 oc 3=7-7-0, 4=7-7-0 2 15) 2 14), 3=-16 (LC 15), 2 14), 3=-112 (LC 21), 2 20), 3=112 (LC 21),	 4) TCLL: ASC Plate DOL= DOL=1.15); Cs=1.00; Cl 5) Unbalanced design. 6) Gable requi 7) Gable studs 8) This truss h chord live lo 9) * This truss on the botto 3-06-00 tall chord and a 10) Provide me bearing plat 	7-16; Pr=20.0 ps 1.15); Pf=20.0 psf Is=1.0; Rough Ca =1.10 snow loads have res continuous bot spaced at 4-0-0 o as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w ny other members chanical connectio e canable of withs?	f (roof Ll (Lum DC t B; Fully been col tom choi c. for a 10. with any d for a liv is where ill fit betv. n (by oth anding f	L: Lum DOL=: DL=1.15 Plate Exp.; Ce=0.9 nsidered for the d bearing. 0 psf bottom other live loa re load of 20.0 a rectangle veen the botto ers) of truss t 0 b uplift at i	1.15 e) e); his ds. Dpsf om io					
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 1-2=-126/255, 2-3=- 1-4=-189/147, 3-4=- 2-4=-347/203	npression/Maximum 126/255 189/147	1, 16 lb upli 11) This truss is Internationa R802.10.2 a LOAD CASE(S)	t at joint 3 and 40 designed in accor I Residential Code nd referenced star Standard	Ib uplift a dance w sections	at joint 4. ith the 2018 SR502.11.1 a NSI/TPI 1.	and					

NOTES

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Exterior(2R) 3-0-8 to 4-7-8, Exterior(2E) 4-7-8 to 7-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. With HILLING SEAL 036322 G mm April 28,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V3	Valley	1	1	Job Reference (optional)	158014130

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:34 ID:nwvYhe77awGkLGvReSo4BTzN9hg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

GRIP

244/190

FT = 20%



LU	м	B	ΕI	R
-0			-	••

Scale = 1:45.7

TCLL (roof)

Snow (Pf)

TCDL

BCLL

BCDL

LOWIDER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
OTHERS	2x4 SP N	0.3
BRACING		
TOP CHORD	Structural 6-0-0 oc p	wood sheathing directly applied or purlins.
BOT CHORD	Rigid ceili bracing.	ng directly applied or 6-0-0 oc
REACTIONS	(size)	1=15-8-3, 5=15-8-3, 6=15-8-3, 7=15-8-3, 8=15-8-3
	Max Horiz	1=-149 (LC 10)
	Max Uplift	1=-22 (LC 10), 6=-168 (LC 15), 8=-171 (LC 14)
	Max Grav	1=127 (LC 24), 5=103 (LC 21), 6=481 (LC 6), 7=449 (LC 23), 8=481 (LC 5)
FORCES	(lb) - Max	imum Compression/Maximum

- TOP CHORD 1-2=-152/192, 2-3=-145/151, 3-4=-145/131, 4-5=-124/153
- BOT CHORD 1-8=-87/134, 7-8=-87/118, 6-7=-87/118, 5-6=-87/118 5-6=-87/118 WEBS 3-7=-261/0, 2-8=-382/207, 4-6=-382/205

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-10-6, Exterior(2R) 4-10-6 to 10-10-6, Interior (1) 10-10-6 to 12-8-8, Exterior(2E) 12-8-8 to 15-8-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 171 lb uplift at joint 8 and 168 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V4	Valley	1	1	Job Reference (optional)	158014131

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:34

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GRIP

244/190

FT = 20%



TOP CHORD 1-2=-138/113, 2-3=-199/115, 3-4=-199/115, 4-5=-109/73 BOT CHORD 1-8=-44/106, 7-8=-44/86, 6-7=-44/86, 5-6=-44/86

WFBS 3-7=-195/0, 2-8=-377/195, 4-6=-377/195

NOTES

FORCES

Scale = 1:41.4 Loading

TCLL (roof)

Snow (Pf)

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

REACTIONS (size)

bracing.

Max Uplift

Max Grav

Tension

TCDL

BCLL

BCDL

- Unbalanced roof live loads have been considered for 1) this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-8-0, Exterior(2R) 3-8-0 to 9-8-0, Interior (1) 9-8-0 to 10-3-11. Exterior(2E) 10-3-11 to 13-3-11 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
- 1, 147 lb uplift at joint 8 and 144 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V5	Valley	1	1	Job Reference (optional)	158014132

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:35 ID:QDd5DIGflcn1n6plLz0ug_zN9he-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



10-10-10

Scale	- 1	1.30 7	

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.33 0.13 0.09	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 44 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shee 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=10-10-1 6=10-10-1 Max Horiz 1=-102 (LL Max Uplift 1=-51 (LC 6=-135 (LL Max Grav 1=71 (LC (LC 21), 7 20)	athing directly applied applied or 10-0-0 oc 0, 5=10-10-10, 0, 7=10-10-10, 0 C 10) 12), 5=-25 (LC 13), C 15), 8=-139 (LC 14), 5=52 (LC 15), 6 =248 (LC 20), 8=454	 3) Truss desig only. For st see Standar or consult qi 4) TCLL: ASCI Plate DOL= DOL=1.15); Cs=1.00; Ct 5) Unbalanced design. 6) Gable requii 7) Gable studs 8) This truss his chord live lo 9) * This truss his chord live lo 9) * This truss his chord live lo 4) 3-06-00 tall chord and a 	ned for wind load uds exposed to w d Industry Gable Jalified building d 7-16; Pf=20.0 psi Is=1.0; Rough Ca =1.10 snow loads have res continuous bo spaced at 4-0-0 as been designed ad nonconcurrent has been designed m chord in all are by 2-00-00 wide v ny other members	Is in the p ind (norm End Deta esigner a: sf (roof LL f (Lum DC at B; Fully been con ttom chor oc. I for a 10. t with any d for a liv as where vill fit betv s.	lane of the tru- lal to the face ils as applical s per ANSI/TF :: Lum DOL=: DL=1.15 Plate Exp.; Ce=0.9 nsidered for the d bearing. 0 psf bottom other live loa re load of 20.0 a rectangle veen the bottom	iss),)ole,) 1 1. 1.15); ds. opsf om					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	bearing plat 1, 25 lb uplif	e capable of withs t at joint 5, 139 lb	standing 5 uplift at j	of truss t 1 lb uplift at j 1 lb and 135	o oint 5 lb					
TOP CHORD	1-2=-137/106, 2-3=-2 4-5=-115/78	227/109, 3-4=-227/10	09, uplift at joint 11) This truss is	6. designed in acco	ordance w	ith the 2018						1.000
BOT CHORD	1-8=-41/73, 7-8=-22/ 5-6=-48/73	73, 6-7=-22/73,	Internationa R802.10.2 a	Residential Code	e sections andard AN	s R502.11.1 a NSI/TPI 1.	nd				"TH CA	RO
WEBS	3-7=-159/4, 2-8=-47	6/272, 4-6=-476/272	LOAD CASE(S)	Standard						1	ORIESS	in this
NOTES									/	23	in the second	N. TI
1) Unbalance	ed roof live loads have	been considered for							4	-	.0.	2
2) Wind: ASC Vasd=103 Cat. II; Ex, zone and 3-0-5 to 7- cantilever right expo: for reactio DOL=1.60	CE 7-16; Vult=130mph imph; TCDL=6.0psf; B(p B; Enclosed; MWFR3 C-C Exterior(2E) 0-0-5 -10-14, Exterior(2E) 7 left and right exposed sed;C-C for members a ns shown; Lumber DO	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior to 3-0-5, Exterior(2F 10-14 to 10-10-14 zo ; end vertical left and and forces & MWFRS L=1.60 plate grip	R) Ine; I S							In Internet	SEA 0363	L 22 EER.K

3-0-5 to 7-10-14, Exterior(2E) 7-10-14 to 10-10-14 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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



mmm April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V6	Valley	1	1	Job Reference (optional)	158014133

4-2-14

4-2-14

Carter Components (Sanford), Sanford, NC - 27332,

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8-1-11

3-10-12

8-5-13

3x5 💊



4x5 =2 10 11 12 3





8-5-13

Scale = 1:31.3

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 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 IRC20 ²	8/TPI2014	CSI TC BC WB Matrix-MP	0.39 0.37 0.13	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: 32 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Structura 8-5-13 oc Rigid ceil bracing. (size) Max Horiz	0.2 0.2 0.3 I wood she purlins. ing directly 1=8-5-13, 1=-79 (LC	athing directly applie applied or 6-0-0 oc 3=8-5-13, 4=8-5-13 ; 10)	4 ed or 6 7 8 9	 TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct= Unbalanced design. Gable requir Gable studs This truss ha chord live loa * This truss has bottom 	7-16; Pr=20.0 ps .15); Pf=20.0 ps ls=1.0; Rough Ca =1.10 snow loads have es continuous bo spaced at 4-0-0 o is been designed ad nonconcurrent nas been designe	of (roof LL (Lum DC tt B; Fully been cor ttom chor oc. for a 10.0 with any d for a liv as where	: Lum DOL= U=1.15 Plate Exp.; Ce=0.9 asidered for th d bearing. D psf bottom other live loa e load of 20.0.1 a rectangle	1.15); his ds.)psf					
FORCES TOP CHORD	Max Uplift Max Grav (lb) - Max Tension 1-2=-124,	1=-45 (LC 4=-102 (L 1=88 (LC (LC 21) timum Com	2 21), 3=-45 (LC 20), C 14) 20), 3=88 (LC 21), 4 pression/Maximum 124/312	¹ =680 1 1	3-06-00 tall t chord and ar 0) Provide mec bearing plate 1, 45 lb uplifi 1) This truss is International	by 2-00-00 wide w by other members hanical connectic capable of withs at joint 3 and 10 designed in acco Residential Code	vill fit betv s. on (by oth standing 4 2 lb uplift rdance w sections	ers) of truss t 5 lb uplift at j at joint 4. 5 R502.11.1 a	om o oint nd					
BOT CHORD	1-4=-211	/184, 3-4=- /253	211/184		R802.10.2 a	nd referenced sta	ndard AN	ISI/TPI 1.						
NOTES	2 7- 000/	200		L	OAD CASE(S)	Standard								
1) Unbalance	ed roof live l	loads have	been considered for	r										111.

this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 5-6-2, Exterior(2E) 5-6-2 to 8-6-2 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 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

"annununu - COLONNANDA SEAL 036322 G mmm April 28,2023





Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V7	Valley	1	1	Job Reference (optional)	158014134

2-6-11

1=100 (LC 20), 3=100 (LC 21),

4=409 (LC 21)

1-2=-88/162, 2-3=-88/162

1-4=-120/123, 3-4=-120/123

Unbalanced roof live loads have been considered for

Truss designed for wind loads in the plane of the truss

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9;

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;

(Ib) - Maximum Compression/Maximum

Max Grav

Tension

2-4=-276/150

Lumber DOL=1.60 plate grip DOL=1.60

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6-1-0



Scale = 1:27.2

FORCES

WEBS NOTES

1)

2)

3)

4)

TOP CHORD

BOT CHORD

this design.

Cs=1.00; Ct=1.10

L

oading CLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.16	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190	
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.18	Vert(TL)	n/a	-	n/a	999			
CDL	10.0	Rep Stress Incr	YES		WB	0.06	Horiz(TL)	0.00	4	n/a	n/a			
BCLL	0.0*	Code	IRC2018	3/TPI2014	Matrix-MP									
BCDL	10.0											Weight: 22 lb	FT = 20%	
UMBER OP CHORD OT CHORD OTHERS BRACING OP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sheat 6-1-0 oc purlins. Rigid ceiling directly a bracing	thing directly applie applied or 6-0-0 oc	5) 6) 7) 8) d or 9)	Unbalanced design. Gable requir Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b	snow loads hav es continuous b spaced at 4-0-0 is been designe has been designe n chord in all ar by 2-00-00 wide	re been cor oottom chor o oc. d for a 10.0 nt with any ned for a liv eas where will fit bety	asidered for t d bearing.) psf bottom other live loa e load of 20. a rectangle veen the bott	this ads. .0psf tom						
EACTIONS	(size) 1=6-1-0, 3= Max Horiz 1=-56 (LC 1 Max Uplift 3=-3 (LC 1	=6-1-0, 4=6-1-0 10) 5). 4=-52 (LC 14)	10)	chord and ar Provide mec bearing plate	hy other member hanical connect capable of with	ers. tion (by oth nstanding 3	ers) of truss Ib uplift at jo	to pint 3						

and 52 lb uplift at joint 4.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
LOAD CASE(S) Standard

SEAL 036322 April 28,2023

Page: 1

ent 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V8	Valley	1	1	Job Reference (optional)	158014135

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:36 ID:MtHGCFVZHRAKZ1mPyTrLx?zN9hL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-8-3

Page: 1



Scale = 1:24.2

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

		-											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a			
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP									
BCDL	10.0										Weight: 11 lb	FT = 20%	
LUMBER			7) Gable studs	spaced at 4-0-0 oc).								
TOP CHORD	2x4 SP No.2		This truss has	as been designed fo	or a 10.0) psf bottom							
BOT CHORD	2x4 SP No.2		chord live lo	ad nonconcurrent w	vith any	other live loa	ds.						
BRACING 9) * This truss has been designed for a live load of 20.0psf													
TOP CHORD	OP CHORD Structural wood sheathing directly applied or 3-8-3 oc purlins. TO UDE DEVICE THE STRUCTURE AND ADD ADD ADD ADD ADD ADD ADD ADD ADD												
BOT CHORD	Rigid ceiling direct bracing.	ly applied or 10-0-0 oc	chord and a 10) Provide med	ny other members. chanical connection	(by oth	ers) of truss t	0						
REACTIONS	(size) 1=3-8-3	3=3-8-3	bearing plate	e capable of withsta	anding 1	2 lb uplift at j	oint						
	Max Horiz 1=32 (L	C 11)	1 and 12 lb (designed in accord		ith the 2019							
	Max Uplift 1=-12 (I	.C 14), 3=-12 (LC 15)	International	Residential Code s	sections	R502 11 1 a	ind						
	Max Grav 1=173 (_C 20), 3=173 (LC 21)	R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.							
FORCES	(lb) - Maximum Co Tension	mpression/Maximum	LOAD CASE(S)	Standard									
TOP CHORD	1-2=-224/84, 2-3=	224/84											
BOT CHORD	1-3=-51/163												
NOTES													
1) Unbalanc this desig	ed roof live loads hav n.	e been considered for											
2) Wind: AS	CE 7-16; Vult=130mr	h (3-second gust)											
Vasd=103	3mph; TCDL=6.0psf;	BCDL=6.0psf; h=25ft;									minin	Mun.	
Cat. II; Ex	p B; Enclosed; MWF	RS (envelope) exterior	•								WAH CA	ROW	
zone and	C-C Exterior(2E) zor	e; cantilever left and ri	ght							5	R		
exposed ;	end vertical left and	right exposed;C-C for								~	U. FESS	Oi Pir	
Lumber D	OI –1 60 plate grip Γ									12	121	Thin	
3) Truss de	signed for wind loads	in the plane of the true	22										
only. For	studs exposed to wir	id (normal to the face).							=	- 1	SEA	L : E	
see Stand	dard Industry Gable E	nd Details as applicab	le,						=	:	0262	· · · · ·	
or consult	qualified building de	signer as per ANSI/TP	l 1.								0303	22 : :	
4) TCLL: AS	CE 7-16; Pr=20.0 ps	(roof LL: Lum DOL=1	.15						-		•	1 3	
Plate DOI	L=1.15); Pf=20.0 psf	Lum DOL=1.15 Plate								2	· . Fr.	Airi	
DOL=1.1	b); IS=1.0; Rough Cat Ct=1 10	B; Fully Exp.; Ce=0.9;								25	S GIN	EFFICA	
5) Unbalanc	ed snow loads have l	peen considered for thi	is							11	C	BEIN	
design.											11, A. G	illinn	
6) Gable red	uires continuous bot	om chord bearing.										UITS	
	•	5									Apri	1 28,2023	



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V11	Valley	1	1	Job Reference (optional)	158014136

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:36 ID:Wm9BicFfP6AIeHUadlojp_zNA2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Page: 1



14-4-2

Scale = 1:52.8

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC2018/T	⁻ PI2014	CSI TC BC WB Matrix-MSH	0.39 0.26 0.26	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 75 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=14-4-2, 8=14-4-2, Max Horiz 1=214 (LC 7=-167 (L 9=-209 (L Max Grav 1=238 (LC 9=589 (LC	athing directly applied cept end verticals. applied or 6-0-0 oc 6=14-4-2, 7=14-4-2, 9=14-4-2 C 11) (10), 6=-141 (LC 6), C 15), 8=-14 (LC 11), C 14) C 24), 6=60 (LC 15), C 6), 8=434 (LC 23), C 23)	3) (4) (5) (5) (6) (7) (8) (7) (7) (8) (7) (7) (8) (Truss design only. For stu- see Standard or consult qu (CLL: ASCE Plate DOL=1 DOL=1.15); CS=1.00; Ct= Unbalanced design. Gable requirin Gable requirin Gable requirin Gable requirin Gable studs fhis truss ha chord live loa ' This truss ha chord live loa ' This truss ha chord live loa ' This truss ha chord and ar Provide mec	here for wind load: ds exposed to wi d Industry Gable I alified building de 7-16; Pr=20.0 ps s=1.0; Rough Ca s1.10 snow loads have es continuous boi spaced at 4-0-0 c s been designed d nonconcurrent nas been designed d nonconcurrent nas been designed d nonconcurrent as been designed d nonconcurrent pactor all area y 2-00-00 wide w by other members nanical connectio	s in the p nd (norm End Deta ssigner a: sf (roof LL (Lum DC t LB; Fully been cor tom chor cc. for a 10. with any d for a liv as where will fit betw s, with BC n (by oth tandies)	lane of the tru al to the face, ils as applicat s per ANSI/TF :: Lum DOL=' DL=1.15 Plate Exp.; Ce=0.9 asidered for th d bearing. D psf bottom other live loa- e load of 20.0 DDL = 10.0psf ers) of truss t	ds. ppsf post psf psf psf psf psf psf psf psf					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	j	oint 6, 49 lb uplift at joint	uplift at joint 1, 14 9 and 167 lb uplif	4 lb uplift t at joint	at joint 8, 209 7.	lb					
TOP CHORD	1-2=-310/221, 2-3=- 4-5=-66/118, 5-6=-6	173/196, 3-4=-156/19 8/119	3, 11)⊺ I	This truss is nternational	designed in acco Residential Code	rdance w sections	ith the 2018 R502.11.1 a	nd					11111
BOT CHORD	1-9=-58/199, 8-9=-5 6-7=-55/57	5/57, 7-8=-55/57,	ہ LOA	R802.10.2 ar D CASE(S)	nd referenced sta Standard	ndard AN	ISI/TPI 1.				151	RTHUA	ROLI
WEBS	3-8=-252/69, 2-9=-4	19/240, 4-7=-414/210		()						4	22	FES	Ning
NOTES										-		in a	n n n n n n n n n n n n n n n n n n n
 Unbalance this desig Wind: AS Vasd=100 Cat. II; Ex zone and 3-0-5 to 6 (2E) 11-2 exposed; members 	ed roof live loads have n. CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; B p B; Enclosed; MWFR C-C Exterior(2E) 0-0-5 -2-6, Exterior(2R) 6-2-6 -10 to 14-2-10 zone; cz end vertical left and rig and forces & MWFRS	been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior i to 3-0-5, Interior (1) 6 to 11-2-10, Exterior antilever left and right ght exposed;C-C for for reactions shown:								111111111		SEA 0363	EER.KI

Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 6-2-6, Exterior(2R) 6-2-6 to 11-2-10, Exterior (2E) 11-2-10 to 14-2-10 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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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April 28,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V12	Valley	1	1	Job Reference (optional)	158014137

Scale = 1:48.1 Loading

TCLL (roof)

Snow (Pf)

LUMBER

TOP CHORD

BOT CHORD

TCDL

BCLL

BCDL

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

this design.

WEBS

2)

NOTES 1)

Run: 8 53 S. Mar. 9 2023 Print: 8 530 S.Mar. 9 2023 MiTek Industries, Inc. Thu Apr. 27 09:18:36 ID:Wm9BicFfP6AIeHUadlojp_zNA2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V13	Valley	1	1	Job Reference (optional)	158014138

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:37 ID:Wm9BicFfP6AIeHUadlojp_zNA2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:43.4													
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.33 0.12 0.14	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 55 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing. (size) 1=11-11-5 8=11-11-5 Max Horiz 1=142 (LC 7=-187 (L Max Grav 1=121 (LC 7=474 (LC 9=437 (LC	 3) Truss desig only. For sti see Standar or consult qi 4) TCLL: ASCE Plate DOL= DOL=1.15); Cs=1.00; Ct 5) Unbalanced design. 6) Gable requir -5, 7) Gable studs 8) This truss ha chord live lo 9) * This truss lo on the bottoo 3-06-00 tall chord and an 10) Provide medical 	ned for wind loads uds exposed to wi d Industry Gable I Jalified building de 7-16; Pr=20.0 ps 1.15); Pf=20.0 ps 1.15); Pf=20.0 ps 1.15); Rough Ca =1.10 snow loads have res continuous bot spaced at 4-0-0 c as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w ny other members chanical connectio	s in the p ind (norm End Deta esigner a: f (roof LL (Lum DC at B; Fully been cor ttom chor oc. for a 10. with any d for a liv as where vill fit betv s. on (by oth	lane of the tru lal to the face ils as applical s per ANSI/TF :: Lum DOL=: DL=1.15 Plate Exp.; Ce=0.9 nsidered for tf d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle ween the botto ers) of truss t	uss), ble, Pl 1. 1.15 2; his ds. Dpsf om							
TOP CHORD BOT CHORD WEBS	Tension 1-2=-152/148, 2-3=- 4-5=-73/111, 5-6=-8 1-9=-37/84, 8-9=-34, 6-7=-34/39 3-8=-252/25, 2-9=-3	166/146, 3-4=-154/14 0/115 /39, 7-8=-34/39, 74/215, 4-7=-414/225	6, 47 lb uplif 8, uplift at joint 11) This truss is International R802.10.2 a	t at joint 1, 150 lb 7. designed in accol l Residential Code ind referenced sta	rdance w sections	ith the 2018 \$ R502.11.1 a	7 lb			ROLIN			
NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=103 Cat. II; Ex zone and 2-9-10 to (2E) 8-9-1 exposed ; members Lumber D	ed roof live loads have n. CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; B0 cp B; Enclosed; MWFR: C-C Exterior(2E) 0-0-5 3-9-10, Exterior(2R) 3- 14 to 11-9-14 zone; car ; end vertical left and rig and forces & MWFRS VOL=1.60 plate grip DO	LOAD GASE(S)	Sidhudiù					Carline .	to the second se	SEA 0363	EER. HUILING	•	

April 28,2023

ENGINEERING BY EREPACED A MITEK Atfillate 818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE U Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, m a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the over building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent b 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 ANSITPI1 Quality Criteria, DSB-89 and ECSI Build Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601	JSE. ot rall racing ling Component

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V14	Valley	1	1	Job Reference (optional)	158014139

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GRIP

244/190

FT = 20%



- Max Uplift 6=-122 (LC 15), 8=-140 (LC 14), 13=-1 (LC 15) Max Grav 1=93 (LC 13), 5=0 (LC 13), 6=434 (LC 21), 7=295 (LC 20), 8=441 (LC 20), 13=0 (LC 13) FORCES (Ib) - Maximum Compression/Maximum
- Tension 1-2=-153/145, 2-3=-188/174, 3-4=-267/173, TOP CHORD 4-5=-138/40
- BOT CHORD 1-8=-44/90, 7-8=-7/90, 6-7=-7/90, 5-6=-7/90 WEBS 3-7=-208/40, 2-8=-447/265, 4-6=-440/249
- NOTES

Scale = 1:39 Loading

TCLL (roof)

Snow (Pf)

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

REACTIONS (size)

bracing.

TCDL

BCLL

BCDL

- Unbalanced roof live loads have been considered for 1) this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 7-9-3, Exterior(2E) 7-9-3 to 10-9-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 1
- 10) One MECHANICAL connector recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 8, and 6. This connection is for uplift only and does not consider lateral forces.
- 11) Non Standard bearing condition. Review required.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Type Qty Ply David Weekly-9 Serenity-Roof-B329 A		David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V15	Valley	1	1	Job Reference (optional)	158014140

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries. Inc. Thu Apr 27 09:18:38 ID:UJVMgowDvWZjCV15ikG4P5zNA0I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

= 20%



Scale = 1:31.7 Looding

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	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0) Lumber DOL	1.15		BC	0.39	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES		WB	0.15	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0)* Code	IRC201	8/TPI2014	Matrix-MP								
BCDL	10.0)				-						Weight: 33 lb	FT = 20
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood s 8-9-0 oc purlins. Rigid ceiling dire	sheathing directly applictly applied or 6-0-0 oc	4) 5) ed or 6) ; 7) 8)	TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct= Unbalanced design. Gable requir Gable studs This truss ba	5 7-16; Pr=20.0 1.15); Pf=20.0 ps Is=1.0; Rough C =1.10 snow loads hav es continuous b spaced at 4-0-0 s been designe	osf (roof Ll sf (Lum DC at B; Fully e been cor ottom chor oc. d for a 10 (L: Lum DOL= DL=1.15 Plate Exp.; Ce=0.9 Insidered for the d bearing.	1.15 9); nis					
REACTIONS	(size) 1=8-9- Max Horiz 1=-82 Max Uplift 1=-52 4=-102 Max Grav 1=85 (LC 21 (lb) - Maximum C	0, 3=8-9-0, 4=8-9-0 (LC 12) (LC 21), 3=-52 (LC 20 3 (LC 14) LC 20), 3=85 (LC 21),) compression/Maximum	9)), 4=713 1(chord live loa * This truss h on the bottor 3-06-00 tall h chord and ar D) Provide mec bearing plate 1, 52 lb uplifi	ad nonconcurrer nas been design m chord in all ard by 2-00-00 wide ny other membe thanical connect e capable of with t at joint 3 and 1	ed for a liv ed for a liv eas where will fit betw rs. ion (by oth standing 5 08 lb uplift	other live loa re load of 20.0 a rectangle veen the both ers) of truss t 52 lb uplift at j at joint 4	ds. Dpsf om o oint					
	Tension		11	1) This truss is	designed in acc	ordance w	ith the 2018						
POT CHORD	1-2=-131/331, 2-	3=-137/337 4_ 222/102		International	Residential Coo	le sections	8 R502.11.1 a	ind					
WERS	1-4=-222/192, 3- 2-4=-534/264	4=-222/192	-	K802.10.2 a	na reterenced st	andard AN	NSI/TPI 1.						
NOTEO	2-4=-004/204		L	OAD CASE(S)	Standard								
NUIES	ad soof live loost- to	wa kaon anaidan dife											
i) Unbaianc	eu root live loads ha	ave been considered fo	ונ									, initia	1111

1)

this design. 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 5-9-5, Exterior(2E) 5-9-5 to 8-9-5 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

(nof)

DOL=1.60 Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

CAR \cap VIIIIIIIIIIII VIIIIIIIIIII SEAL 036322 G mm April 28,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V16	Valley	1	1	Job Reference (optional)	158014141

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Scale = 1:27.6														
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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.20	Vert(TL)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES		WB	0.06	Horiz(TL)	0.00	4	n/a	n/a			
BCLL	0.0*	Code	IRC2018	3/TPI2014	Matrix-MP									
BCDL	10.0											Weight: 23 lb	FT = 20%	
LUMBER			5)	Unbalanced	snow loads have	e been cor	sidered for th	his						
TOP CHORD	2x4 SP No.2		,	design.										
BOT CHORD	2x4 SP No.2		6)	Gable requi	res continuous be	ottom chor	d bearing.							
OTHERS	2x4 SP No.37)Gable studs spaced at 4-0-0 oc.													
BRACING	8) This truss has been designed for a 10.0 psf bottom													
TOP CHORD	Structural wood she	athing directly applie	ed or	chord live lo	ad nonconcurrer	nt with any	other live loa	ids.						

6-4-3

	6-4-3 oc p	ourlins.								
BOT CHORD	Rigid ceili	Rigid ceiling directly applied or 6-0-0 oc								
	bracing.									
REACTIONS	(size)	1=6-4-3, 3=6-4-3, 4=6-4-3								
	Max Horiz	1=58 (LC 11)								
	Max Uplift	3=-11 (LC 20), 4=-58 (LC 14)								
	Max Grav	1=100 (LC 20), 3=69 (LC 21),								
		4=430 (LC 21)								
FORCES	(lb) - Maximum Compression/Maximum									
FORCES	(lb) - Maximum Compression/Maximum Tension									

TOP CHORD 1-2=-87/172, 2-3=-68/172 BOT CHORD 1-4=-122/119, 3-4=-122/119 2-4=-294/164 WFBS

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 4) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 3 and 58 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

\cap 11111111111 SEAL 036322 G mm April 28,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V17	Valley	1	1	Job Reference (optional)	158014142

1-11-11

1-11-11

Carter Components (Sanford), Sanford, NC - 27332,

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3-7-4

1-7-9

3

Page: 1



2x4 II

3-11-7

Scale = 1:24.5

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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 IRC20	18/TPI2014	CSI TC BC WB Matrix-MP	0.05 0.07 0.02	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: 14 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 3-11-7 oc purlins. Rigid ceiling directly bracing. (size) 1=3-11-7, Max Horiz 1=35 (LC Max Uplift 1=-1 (LC (LC 14) Max Grav 1=76 (LC (LC 21)	athing directly appli applied or 6-0-0 oc 3=3-11-7, 4=3-11-7 11) 14), 3=-8 (LC 15), 4 20), 3=76 (LC 21), 4	5 6 7 8 9 7 1 =-23 4=222	 Unbalanced design. Gable requir Gable studs This truss ha chord live loa * This truss load * This truss load * This truss load Provide mec bearing plate 1, 8 lb uplift This truss is International 	snow loads have res continuous be spaced at 4-0-0 as been designe m chord in all are by 2-00-00 wide ny other member chanical connecti e capable of with at joint 3 and 23 designed in acco Residential Coco	e been cor octom chor oc. d for a 10.0 tt with any ed for a liv asa where will fit betw rs. ion (by oth standing 1 lb uplift at ordance w le sections parderd 0.0	sidered for the d bearing.) psf bottom other live load e load of 20.0 a rectangle veen the botthe res) of truss to lb uplift at jo joint 4. th the 2018 R502.11.1 a	his Ids. Dpsf om int					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	L	OAD CASE(S)	Standard								
TOP CHORD	1-2=-69/69, 2-3=-69	/69											
WERS	2-4-124/60	/04											
NOTES	2 4= 124/00												
 Unbalanc this desig Wind: AS Vasd=100 Cat. II; Ex 	Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior												

- zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10





Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V21	Valley	1	1	Job Reference (optional)	158014143

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:39 ID:2abpVGE1eo2R17vN32HUHnzNA2w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

ALTER DE LE COLORIZA

SEAL

036322

4. GILP

818 Soundside Road Edenton, NC 27932



Scale = 1:43.4

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing 22 Plate Grip DOL 1 Lumber DOL 1 Rep Stress Incr Y Code II	2-0-0 .15 .15 /ES RC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.27 0.14 0.15	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 52 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=10-6-1 ⁻ 7=10-6-1 ⁻ Max Horiz 1=184 (LC Max Uplift 1=-45 (LC 6=-28 (LC Max Grav 1=170 (LC 6=406 (LC	athing directly applied o cept end verticals. applied or 10-0-0 oc 1, 5=10-6-11, 6=10-6-11 1 C 11) C 11), 5=-50 (LC 10), C 11), 7=-161 (LC 14) C 24), 5=188 (LC 21), C 23), 7=450 (LC 23)	 3) Truss desig only. For stu see Standar or consult qu 4) TCLL: ASCE Plate DOL=² DOL=1.15); Cs=1.00; Ct: 5) Unbalanced design. 6) Gable requir 7) Gable studs 8) This truss ha chord live los chord live los 3-06-00 tall li 	ned for wind load uds exposed to wi d Industry Gable aalified building for 57-16; Pr=20.0 ps 1.15); Pf=20.0 ps 1.15); Pf=20.0 ps 1.10 snow loads have res continuous bo spaced at 4-0-0 d as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wiedber	Is in the p ind (norm End Deta esigner as sif (roof LL (Lum DC at B; Fully been cor ttom chor oc. I for a 10.0 t with any d for a liv as where will fit betty	ane of the tru al to the face ils as applica s per ANS/TI :Lum DOL= :L=1.15 Plate Exp.; Ce=0.9 asidered for the d bearing. D psf bottom other live loa e load of 20.0 a rectangle ween the bottk DI = 10 0 psf	uss), ble, PI 1. 1.15 2; his ds. Dpsf					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	10) Provide mec bearing plate	hanical connections chanical connections capable of withs	on (by oth standing 5	ers) of truss t	o oint					
TOP CHORD	1-2=-220/162, 2-3=- 4-5=-163/130	168/134, 3-4=-132/153,	5, 45 lb uplif uplift at joint	t at joint 1, 28 lb υ 7.	uplift at joi	nt 6 and 161	lb					
BOT CHORD WEBS NOTES	1-7=-50/123, 6-7=-5 3-6=-227/77, 2-7=-3	0/57, 5-6=-50/57 20/248	11) This truss is International R802.10.2 a	designed in acco Residential Code nd referenced sta	ordance w e sections andard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	ind				TH CA	ROY
1) Unbalance	ed roof live loads have	been considered for	LOAD CASE(S)	Standard							A Stree	il. his

- this design.Wind: ASCE 7-16; Vult=130mph (3-second gust)
- 2) Wind: ASCE 710, ValterSonnyl (Ssecond gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-5-12, Exterior(2R) 4-5-12 to 7-5-12, Exterior (2E) 7-5-12 to 10-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V22	Valley	1	1	Job Reference (optional)	158014144

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:39 ID:2abpVGE1eo2R17vN32HUHnzNA2w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36.4

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 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	8/TPI2014	CSI TC BC WB Matrix-MSH	0.28 0.10 0.11	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 44 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing. (size) 1=9-4-5, 5 Max Horiz 1=148 (LC Max Uplift 1=-53 (LC 6=-18 (LC Max Grav 1=109 (LC 6=303 (LC (lb) - Maximum Com	athing directly applie cept end verticals. applied or 10-0-0 oc 5=9-4-5, 6=9-4-5, 7=5 2 11) 2 10), 5=-50 (LC 15), 3 11), 7=-139 (LC 14) 2 13), 5=194 (LC 21) 2 20), 7=372 (LC 20) pression/Maximum	4) 5) d or 6) 7) 8) 9)-4-5 9) , 1(TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct= Unbalanced * design. Gable require Gable require Gable studs * This truss ha chord live loa * This truss ha on the bottom 3-06-00 tall b chord and an Provide mect bearing plate 5, 53 lb uplift uplift at joint 1 	7-16; Pr=20.0 ps 15); Pf=20.0 ps s=1.0; Rough Ca 1.10 snow loads have es continuous bot spaced at 4-0-0 c s been designed id nonconcurrent as been designed id nonconcurrent as been designed y 2-00-00 wide w y other members nanical connectio capable of withs at joint 1, 18 lb u 7.	of (roof LL (Lum DC t B; Fully been cor tom chor cc. for a 10.4 with any d for a liv as where will fit betw i. n (by oth tanding 5 plift at joi	:: Lum DOL=1 IL=1.15 Plate Exp.; Ce=0.9 asidered for th d bearing. 0 psf bottom other live loac e load of 20.0 a rectangle veen the botto ers) of truss to 0 lb uplift at jo nt 6 and 139 l	.15 is ds. psf m b					
TOP CHORD	Tension 1-2=-161/148, 2-3=- 4-5=-170/124 1-7=-31/49, 6-7=-31,	158/119, 3-4=-122/1; /38, 5-6=-31/38	1 ⁻ 39, Le	 This truss is a International R802.10.2 ar OAD CASE(S) 	designed in accor Residential Code nd referenced sta Standard	rdance w sections ndard AN	ith the 2018 R502.11.1 ai ISI/TPI 1.	nd					
 VVEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103 Cat. II; Ex zone and 3-0-5 to 6- cantilever right expo for reaction DOL=1.6C 3) Truss des only. For 	3-o=-224/o5, 2-7=-3 ed roof live loads have n. CE 7-16; Vult=130mph imph; TCDL=6.0psf; B4 p B; Enclosed; MWFR: C-C Exterior(2E) 0-0-5 -3-6, Exterior(2E) 6-3-6 left and right exposed sed;C-C for members a ns shown; Lumber DO) signed for wind loads in studs exposed to wind	been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior to 3-0-5, Exterior(2F 5 to 9-2-14 zone; ; end vertical left and and forces & MWFRS L=1.60 plate grip the plane of the trus (normal to the face),	2) 							Non the second s		SEA 0363	ROLL REPERTING

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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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April 28,2023

Job	Truss	Truss Type		Ply	David Weekly-9 Serenity-Roof-B329 A				
23040054-01	V23	Valley	1	1	Job Reference (optional)	158014145			

Scale = 1:32.1

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:39 ID:2abpVGE1eo2R17vN32HUHnzNA2w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

GRIP 244/190

FT = 20%

Page: 1

8-1-14

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 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	018/TPI2014	CSI TC BC WB Matrix-MP	0.49 0.51 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 35 lb
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Structural 6-0-0 oc p Rigid ceili bracing. (size) Max Horiz Max Uplift Max Grav (lb) - Max Tension 1-2=-252/ 1-5=-101/	o.2 o.2 o.3 o.3 I wood shea burlins, exc ing directly 1=8-1-14, 1=112 (LC 5=-11 (LC 1=-24 (LC 5=417 (LC 5=417 (LC imum Com /104, 2-3=-1 /199, 4-5=-2	athing directly applie cept end verticals. applied or 10-0-0 oc 4=8-1-14, 5=8-1-14 C 11) C 15), 4=-50 (LC 15), C 20), 4=163 (LC 21) C 20) apression/Maximum 90/119, 3-4=-157/12 24/26	d or ; ,	 4) TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct: 5) Unbalanced design. 6) Gable requir 7) Gable studs 8) This truss ha chord live load 9) * This truss ha on the bottor 3-06-00 tall b chord and ar 10) Provide mec bearing plate 4, 24 lb uplift 11) This truss is International R802.10.2 ai LOAD CASE(S) 	7-16; Pr=20.0 p .15); Pf=20.0 ps Is=1.0; Rough Ci .1.10 snow loads have es continuous bc spaced at 4-0-0 s been designed n chord in all are by 2-00-00 wide v hanical connecti c capable of withs at joint 1 and 11 designed in accc Residential Cod nd referenced sta Standard	sf (roof LI f (Lum DC at B; Fully been cou- titom choi oc. I for a 10. t with any d for a li as where will fit bety S. on (by oth standing § I b uplift a ordance w e sections andard AN	L: Lum DOL= DL=1.15 Plate Exp.; Ce=0.5 nsidered for the rd bearing. 0 psf bottom other live load re load of 20.0 a rectangle ween the botto ers) of truss t 50 lb uplift at j at joint 5. ith the 2018 s R502.11.1 a NSI/TPI 1.	1.15); ds.)psf om oint nd				
NOTES	2-5=-235/	40											mm

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 5-0-15, Exterior(2E) 5-0-15 to 8-0-7 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.

SEAL 036322 A, GILBERT

Job	Truss	Truss Type C		Ply	David Weekly-9 Serenity-Roof-B329 A				
23040054-01	V24	Valley	1	1	Job Reference (optional)	158014146			

Run: 8.53 E Oct 7 2022 Print: 8.530 E Oct 7 2022 MiTek Industries, Inc. Thu Apr 27 15:36:56 ID:rJduy6PgA34z01hkBcwXGbzNDNk-W_a8j?AzK5p88fF4VXX5n5sW_2qU0QN6xjjctezMTiL Page: 1

GRIP

244/190

FT = 20%

6-11-8

Scolo	_	1.20.2
Scale	=	1:30.3

Loading TCLL (roof) Snow (Pf) TCDL BCLL		(psf) 20.0 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20 ⁷	18/TPI2014	CSI TC BC WB Matrix-MP	0.29 0.30 0.09	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
BCDL		10.0											Weight: 28 lb
LUMBER TOP CHORD BOT CHORD OTHERS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Right: 2x4 Structura 6-0-0 oc Rigid ceil bracing. (Ib/size) Max Horiz	10.2 10.3 14 SP No.3 14 wood she purlins. ing directly 1=90/7-3- 4=427/7-3 1=71 (LC	athing directly applie applied or 6-0-0 oc 1, 3=63/7-3-1, }-1 11)	4 5 d or 6 7 8 9	 TCLL: ASCI Plate DOL= DOL=1.15); Cs=1.00; Ct Unbalanced design. Gable requii Gable studs This truss hi chord live lo * This truss on the botto 3-06-00 tall 	7-16; Pr=20.0 1.15); Pf=20.0 p Is=1.0; Rough (=1.10 snow loads hav res continuous b spaced at 4-0-0 as been design ad nonconcurren has been design m chord in all ar by 2-00-00 wiele	psf (roof Ll sf (Lum DC Cat B; Fully re been con bottom choo) oc. d for a 10. nt with any hed for a live eas where will fit betwork	L: Lum DOL= DL=1.15 Plate Exp.; Ce=0.1 nsidered for t rd bearing. 0 psf bottom other live loa re load of 20.1 a rectangle ween the bott	1.15 e) 9; his ads. 0psf om				
	Max Uplift Max Grav	1=-12 (LC 4=-85 (LC 1=105 (LC 4=543 (LC	: 15), 3=-33 (LC 20), : 14) : 20), 3=175 (LC 21) : 20)	, , 1	chord and a 0) Provide med bearing plat 3 and 12 lb 1) One MECH	ny other membe chanical connect e capable of with uplift at joint 1.	ers. tion (by oth nstanding (ers) of truss 33 lb uplift at j	to joint				
FORCES	(lb) - Max (lb) or les	. Comp./M s except w	ax. Ten All forces 2 hen shown.	250 '	truss to bea connection i	ring walls due to s for uplift only a	UPLIFT a and does n	t jt(s) 4. This ot consider la	iteral				
WEBS	2-4=-375	/139			forces.	-							
NOTES 1) Unbalance	ed roof live	loads have	been considered for	1	 Beveled plat surface with 	te or shim requir truss chord at jo	ed to provi pint(s) 3.	de full bearin	g				

- Unbalanced root live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 4-3-5, Exterior(2E) 4-3-5 to 7-3-5 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A	
23040054-01	V25	Valley	1	1	Job Reference (optional)	158014147

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:40 ID:XxNbF6uyOuJ?zBujaJEcKgzNA0n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-3-11

Page: 1

5-3-11

Scale = 1:25.9

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES		WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 19 lb	FT = 20%
LUMBER			5)	Unbalanced	snow loads have	been cor	nsidered for th	nis					
TOP CHORD	2x4 SP No.2		,	design.									
BOT CHORD	2x4 SP No.2		6)	Gable requir	es continuous bo	ttom chor	d bearing.						
OTHERS	2x4 SP No.3		7)	Gable studs	spaced at 4-0-0 d	C.							
BRACING 8) This truss has been designed for a 10.0 psf bottom													
TOP CHORD	Structural wood she	eathing directly appli	ed or	chord live loa	ad nonconcurrent	with any	other live loa	ds.					
	5-3-11 oc purlins.		9)	* This truss h	has been designe	ed for a liv	e load of 20.0	Opsf					
BOT CHORD	Rigid ceiling directly bracing.	/ applied or 6-0-0 oc		on the bottor 3-06-00 tall t	m chord in all area by 2-00-00 wide w	as where vill fit betv	a rectangle veen the botto	om					
REACTIONS	(size) 1=5-3-11	, 3=5-3-11, 4=5-3-11	۱ ،	chord and ar	ny other members	5. 							
	Max Horiz 1=-48 (LO	C 12)	IC IC	bearing plate	canable of withs	standing 6	th unlift at in	0 int 3					
	Max Uplift 3=-6 (LC 15), 4=-40 (LC 14)												
	Max Grav 1=93 (LC	20), 3=93 (LC 21),	4=335 11) This truss is	designed in acco	rdance w	ith the 2018						
	(LC 21)			International	Residential Code	e sections	R502.11.1 a	nd					
FORCES	(lb) - Maximum Cor	npression/Maximum		R802.10.2 a	nd referenced sta	andard AN	ISI/TPI 1.						
		5/12/	LC	DAD CASE(S)	Standard								
	1 = -0.0/124, 2 = -0.0/124	0/124											
WERS	2-4215/117	94/101											
NOTES	2 4= 210/117												
1) Unhalana	od roof live loade bave	boon considered fo	r										
this design			1										11.
2) Wind AS	CE 7-16: \/ult-130mpl	(3-second quist)											
Vasd=10	3mph: TCDI =6 0psf: F	CDI = 6.0 nsf h = 25 ft										IN TH UA	Rollin
Cat. II: Ex	xp B: Enclosed: MWFF	S (envelope) exterio	, or								1	A	in Inde
zone and	C-C Exterior(2E) zone	; cantilever left and	right								12	. FESS	Maria
exposed	; end vertical left and r	ight exposed;C-C for									71		
members	and forces & MWFRS	for reactions shown	;							3			N : E
Lumber D	OOL=1.60 plate grip DO	DL=1.60								Ξ		SEA	L 1 E
3) Truss de	signed for wind loads i	in the plane of the tru	ISS							Ξ.	- 1	0202	
only. For	studs exposed to wind	d (normal to the face),							1		0363	22 : 2
see Stan	dard Industry Gable Er	d Details as applica	ble,							-	8		1 2
or consul	t qualified building des	igner as per ANSI/TI	-11.								2	·	all S
4) ICLL: AS	D = 1.16; Pr=20.0 pst	(TOOLLL: LUM DOL=	1.15								24	NGIN	FERMAN
Plate DO	L=1.15); PT=20.0 pst (l	Lum DOL=1.15 Plate									14	710	ET N
Cs=1.00	0), is=1.0, rougil Call Ct=1.10	b, Fully Exp., Ce=0.8	,									A G	ILD

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 4) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

GI

April 28,2023

A. GIL

Job	Truss	Truss Type	Qty	Ply	David Weekly-9 Serenity-Roof-B329 A				
23040054-01	V26	Valley	1	1	Job Reference (optional)	158014148			

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Thu Apr 27 09:18:40 ID:XxNbF6uyOuJ?zBujaJEcKgzNA0n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-10-14 2-6-12 1-1-5

Page: 1

2-10-14

1-5-7 1-5-7

Scale = 1.24.8

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

Loadi TCLL Snow TCDL BCLL BCDL	ng (roof) (Pf)		(psf) 20.0 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	8/TPI2014	CSI TC BC WB Matrix-MP	0.07 0.06 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: 9 lb	GRIP 244/190 FT = 20%
LUME TOP (BOT (BRAC TOP (BOT (UMBER 7) Gable studs spaced at 4-0-0 oc. OP CHORD 2x4 SP No.2 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. IRACING 9) * 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. IOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 10)														
REAC	LEACTIONS (size) 1=2-10-14, 3=2-10-14 Max Horiz 1=-24 (LC 10) Max Uplift 1=-10 (LC 14), 3=-10 (LC 15) Max Grav 1=133 (LC 20), 3=133 (LC 21)														
FURCES		(Ib) - Maxin Tension	num Com	pression/Maximum	L	DAD CASE(S)	Standard								
TOP CHORD 1-2=-166/70, 2-3=-166/70															
BOT	CHORD	1-3=-40/12	0												
NOTE	NOTES														
1) U th	Unbalanced roof live loads have been considered for this design														
2) W V C zc ex m Lu	 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 														
3) T or se) 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,														
4) T(P D C	or consult qualified building designer as per ANSI/TPI 1.) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10									EERCH					
5) U) Unbalanced snow loads have been considered for this									ILBEIT					
6) G) Gable requires continuous bottom chord bearing.														

April 28,2023

