

Trenco 818 Soundside Rd Edenton, NC 27932

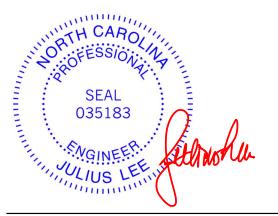
Re: P02050-24644 1053 Serentity

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Lumber 1387 (Winter Haven, FL).

Pages or sheets covered by this seal: T37059101 thru T37059141

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



April 21,2025

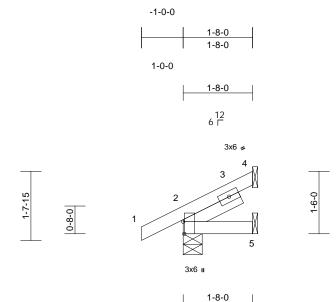
Lee, Julius

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

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J13	Jack-Open	1	1	Job Reference (optional)	T37059101

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:01 ID:nU8QvrkCvwip8eHQdBAKizzQTUi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.7

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

		1										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 7.7/10.0 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/TPI201	CSI TC BC WB 4 Matrix-MP	0.07 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 8 8 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 9 lb	GRIP 244/190 FT = 20%
Vasd=103 II; Exp B; and C-C E exposed ; members Lumber D 2) TCLL: AS Plate DOI 1.15 Plate Exp.; Ce= 3) Unbalanc design. 4) This truss load of 12	2x4 SP No.2 Left 2x4 SP No.3 ' Structural wood she 1-8-0 oc purlins. Rigid ceiling directly bracing. (size) 2=0-5-8,4 Mechanic Max Horiz 2=46 (LC (LC 16) Max Grav 2=144 (LC (LC 7) (lb) - Maximum Com Tension 1-2=0/27, 2-4=-42/1	athing directly applied applied or 10-0-0 oc 4= Mechanical, 5= al 16) 2 16), 4=-23 (LC 16), 2 2), 4=33 (LC 2), 5= pression/Maximum 8 (3-second gust) CDL=3.0psf; h=25ft; ivelope) exterior zone ilever left and right ght exposed;C-C for for reactions shown; L=1.60 roof LL: Lum DOL=1. 2f=7.7 psf (Lum DOL=1.) 2f=7.7 psf (Lum DOL=1.) 2f=7.7 psf (Lum DOL=1.) 2f=7.7 psf (Lum DOL=1.) 2f=7.7 psf (Lum DOL=1.)2f=7.7 psf	cat. e .15 cat. e .15 .15 .15 .15 .15 .15 .15 .15	g Designer/Project eng g Rain Load = 5.0 (ps ments specific to the u iss has been designed ve load nonconcurren truss has been designe bottom chord in all are 0 tall by 2-00-00 wide v and any other member 0 girder(s) for truss to e mechanical connecti g plate capable of with uplift at joint 5 and 23 uss is designed in accord tional Residential Cod 0.2 and referenced sta SE(S) Standard	f) covers r use of this d for a 10.0 t with any ed for a liv d for a liv ed for a liv as where will fit betw s. o truss con on (by oth standing 2 lb uplift at prdance w le sections	ain loading truss compor 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto nections. ers) of truss t 6 lb uplift at j joint 4. ith the 2018 s R502.11.1 a	ds. Dpsf om o oint				SEA 0351	83 EER.
												April 21 2025

April 21,2025



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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J12	Jack-Open Girder	1	1	Job Reference (optional)	T37059102

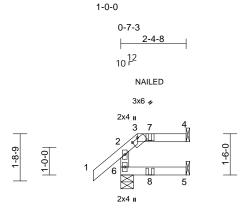
0-7-3

2-4-8 1-9-5

-1-0-0

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:01 ID:NA_jrev_cDTqpoL6S7QcGwzQTUU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



NAILED 2-4-8

Scale = 1:41.9

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

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1								
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 12.7/10.0 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	3/TPI2014	CSI TC BC WB Matrix-MR	0.13 0.05 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 5-6 5-6 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 10 lb	GRIP 244/190 FT = 20%
 this design Wind: ASC Vasd=103 II; Exp B; I cantilever right export TCLL: ASI Plate DOL 1.15 Plate Exp.; Ce= 	$\begin{array}{llllllllllllllllllllllllllllllllllll$	cept end verticals, ar applied or 10-0-0 oc nical, 5= Mechanica 9) 9), 5=-3 (LC 9), 6=- 33), 5=40 (LC 7), 6= pression/Maximum 53, 2-3=-55/15, 3-4= been considered for (3-second gust) CDL=3.0psf; h=25ft; ivelope) exterical left anc 0 plate grip DOL=1.6 roof LL: Lum DOL=1 2f=12.7 psf (Lum DO Rough Cat B; Partiall Lu=50-0-0	6) d or 7) 8) 9) 1, 34 10 11 175 12 0/0 13 14 15 Cat. e; 1 10 12 0/0 13 14 15 Cat. e; 1 1) 10 12 14 15 12 14 15 12 14 15 	load of 12.0 overhangs n Building Des verifying Rai requirement Provide ade This truss h chord live lo on the botto 3-06-00 tall chord and ai) Refer to gird bearing platt 6, 27 lb uplif) This truss is International R802.10.2 a) Graphical pu or the orient bottom chorn) "NAILED" in (0.148"x3.22) In the LOAD of the truss a JAD CASE(S) Dead + Shi Increase=1 Uniform Lo Vert: 1-2	dicates 3-10d (0.1 ") toe-nails per N CASE(S) section are noted as front Standard ow (balanced): Lu .15 ads (lb/ft) =-35, 2-3=-35, 3- ed Loads (lb)	flat roof ld th other lin jineer res) covers r so geot this so prevent to for a 10.0 s with any d for a liv as where vill fit betw s. truss con on (by oth standing 3 b uplift at rdance w e sections andard AN n does nd along the 148"x3") of DS guidil n, loads al (F) or ba	bad of 7.7 psi re loads. consible for ain loading truss compoind yater ponding) psf bottom other live load e load of 20.0 a rectangle yeen the botth nections. ers) of truss i 4 lb uplift at j joint 5. th the 2018 rsf02.11.1 at (SI/TPI 1. ot depict the se top and/or or 3-12d nes. oplied to the is ck (B).	f on g. uds. Opsf om to joint size face					EER.

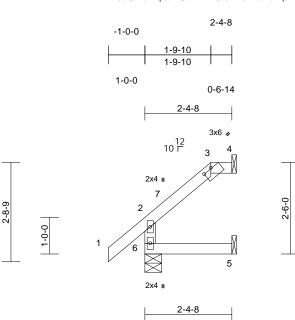
April 21,2025

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Job	Truss	Truss Type	Qty	Ply	1053 Serentity		
P02050-24644	J11	Jack-Open	1 1 Job Reference		Job Reference (optional)	T37059103	

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:00 ID:nU8QvrkCvwip8eHQdBAKizzQTUi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.5

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

	7, 1). [3.0-3-0,0-0-4]												
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL LUMBER	(psf) 20.0 12.7/10.0 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		CSI TC BC WB Matrix-MR				(loc) 5-6 5-6 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 11 lb	GRIP 244/190 FT = 20%
TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 2-4-8 oc purlins; exi 2-0-0 oc purlins; 3-4 Rigid ceiling directly bracing.	cept end verticals, ar	nd 7) 8)	overhangs n Building Des verifying Rai requirements Provide adee This truss ha chord live loa * This truss h	psf or 1.00 times on-concurrent wit igner/Project eng n Load = 5.0 (psf) s specific to the us quate drainage to as been designed ad nonconcurrent has been designe	h other li ineer res) covers r se of this prevent for a 10.1 with any d for a liv	ve loads. ponsible for ain loading truss compo water pondin 0 psf bottom other live loa re load of 20.	onent. g. ads.					
	0	; 16), 5=-9 (LC 16), 6	6=-9 10 11	3-06-00 tall b chord and ar) Refer to gird) Provide mec bearing plate 37 lb uplift at	n chord in all area by 2-00-00 wide w by other members er(s) for truss to the hanical connection e capable of withs t joint 4 and 9 lb u designed in acco	vill fit betw s. truss con on (by oth tanding S oplift at joi	veen the bott nections. ers) of truss b lb uplift at jo nt 5.	to					
FORCES TOP CHORD BOT CHORD NOTES	(lb) - Maximum Com Tension 2-6=-176/118, 1-2=0 5-6=0/0		0/0	International R802.10.2 a Graphical pu	Residential Code nd referenced sta Irlin representation ation of the purlin	e sections ndard AN n does no	R502.11.1 a SI/TPI 1. ot depict the						
 Unbalance this design Wind: ASC Vasd=103i II; Exp B; E and C-C E exposed; i members a Lumber DC TCLL: ASC Plate DOL 1.15 Plate Exp.; Ce=1 	ed roof live loads have CE 7-16; Vult=130mph mph; TCDL=6.0psf; Bf Enclosed; MWFRS (er ixterior(2E) zone; canti end vertical left and rig and forces & MWFRS DL=1.60 plate grip DO CE 7-16; Pr=20.0 psf (=1.15); Pg=10.0 psf; F DOL = 1.15); ls=1.0; f 1.0; Cs=1.00; Ct=1.10, ed snow loads have be	(3-second gust) CDL=3.0psf; h=25ft; ivelope) exterior zon ilever left and right ght exposed;C-C for for reactions shown; L=1.60 roof LL: Lum DOL=1 Pf=12.7 psf (Lum DO Rough Cat B; Partiall , Lu=50-0-0	Cat. e .15 L = ly	DAD CASE(S)								SEA 0351	EER.

April 21,2025



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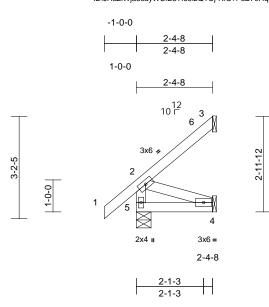
ww.tpinst.org) 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J10	Jack-Open	12	1	Job Reference (optional)	T37059104

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:00 ID:JHa2iWja8cayWUiE3Tf59lzQTUj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-3-5

Page: 1



Scale = 1:36

TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) 0.00 4-5 >999 2 Snow (Pf/Pg) 7.7/10.0 Lumber DOL 1.15 BC 0.05 Vert(CT) 0.00 4-5 >999 2	L/d PLATES GRIP 240 MT20 244/190 n/a Weight: 14 lb FT = 20%
 TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING 2x4 SP No.3 BRACING 70P CHORD Structural wood sheathing directly applied or 2-4-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-5-8 Max Horiz 5=86 (LC 14) Max Uplit 3=-42 (LC 14), 4=-25 (LC 14) Max Grav 3=54 (LC 26), 4=45 (LC 5), 5=174 TOP CHORD 2-5=-152/70, 1-2=0/44, 2-3=-73/47 FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 4-5=-208/61 Verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component. This truss has been designed for a 10.0 psf bottom chord live load oncocurrent 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. 8) Refer to girder(s) for truss to truss connections. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4. 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. LOAD CASE(S) Standard 	
 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=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-3-12 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 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL=1.10; Is=1.0; Rough Cat B; Partially Exp; Ce=1.0; CS=1.00; Ct=1.10 This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads. 	SEAL 035183 April 21,202

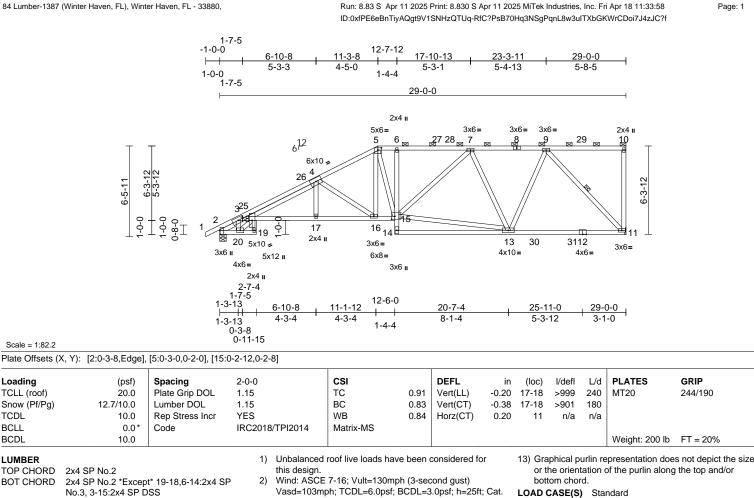
818 Soundside Road Edenton, NC 27932

a duss system. Belore use, the building designer must verify the application of design plantiteters and properly incorporate rule design must remove and building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality** Criteria and DBS-22 available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	H11	Half Hip	1	1	Job Reference (optional)	T37059105

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:58

Page: 1



	13-15,15-7,13-7,13-9,11-9:2x4 SP No.2
SLIDER	Left 2x4 SP No.1 1-4-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	1-9-2 oc purlins, except end verticals, and
	2-0-0 oc purlins (4-2-14 max.): 5-10.
BOT CHORD	Rigid ceiling directly applied or 8-3-6 oc
	bracing.
WEBS	1 Row at midpt 9-11
REACTIONS	(size) 2=0-5-8, 11= Mechanical
	Max Horiz 2=230 (LC 15)
	Max Uplift 2=-193 (LC 16), 11=-262 (LC 13)

2x4 SP No.3 *Except*

Scale = 1:82.2

Loading

TCDL

BCLL

BCDL

WEBS

NOTES

S

LUMBER

TOP CHORD

BOT CHORD

TCLL (roof)

Snow (Pf/Pg)

	Max Grav 2=1297 (LC 3), 11=1260 (LC 3)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/27, 2-3=-831/109, 3-4=-4237/920,
	4-5=-1981/334, 5-6=-1751/329,
	6-7=-1746/330, 7-9=-1254/262,
	9-10=-115/114, 10-11=-152/63
BOT CHORD	2-20=-460/1459, 19-20=-70/226,
	18-19=-21/111, 3-18=-538/2080,
	17-18=-652/2429, 16-17=-652/2428,
	15-16=-451/1696, 14-15=0/138,
	6-15=-265/104, 13-14=-19/205,
	11-13=-253/945
WEBS	4-16=-855/239, 5-16=-104/582,
	5-15=-131/316, 13-15=-349/1296,
	7-15=-129/369, 7-13=-607/193,
	9-13=-77/772, 9-11=-1365/306,
	4-17=-12/322, 4-18=-499/1582,
	3-20=-1487/468, 18-20=-637/2017

II: Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 11-3-8, Exterior(2R) 11-3-8 to 15-6-7, Interior (1) 15-6-7 to 28-10-4 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 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

- Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live 5) load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for 6) verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding. 7)
- This truss has been designed for a 10.0 psf bottom 8)
- chord live load nonconcurrent with any other live loads 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, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections. 11) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 262 lb uplift at joint 11 and 193 lb uplift at joint 2. 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.



April 21,2025

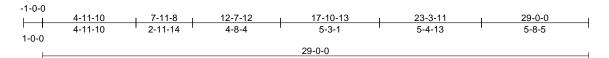
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

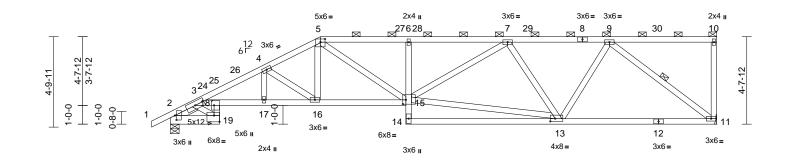


Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	H10	Half Hip	1	1	Job Reference (optional)	T37059106

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:58 ID:4ZXepRdxGrSEx6WV24?_IszQTUs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





	2-7-4	4-11-10	7-9-12	12-6-0	20-7-4	25-11-0	29-0-0
Scale = 1:61.2	2-7-4	2-4-6	2-10-2	4-8-4	8-1-4	5-3-12	3-1-0

Plate Offsets (X, Y): [2:0-2-13,0-1-0], [5:0-3-0,0-2-0], [13:0-3-2,0-1-12], [15:0-2-0,0-2-12], [18:0-3-0,0-1-8], [19:Edge,0-4-0]

	,, ,, ,, [2:0 2 10,0 1 0], [=== = =,= = =], [= =],[,0 2 .2], [.0.0 0 .	o,o : o],[roizago,o i	0]				1	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.66	Vert(LL)		15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15		BC	0.79	Vert(CT)	-0.34	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.50	Horz(CT)	0.18	11	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MS		. ,						
BCDL	10.0											Weight: 174 lb	FT = 20%
LUMBER			2)	Wind: ASCE	7-16; Vult=130m	nph (3-sec	ond gust)		LOAD	CASE(S) Sta	ndard	
TOP CHORD	2x4 SP No.2				ph; TCDL=6.0psf								
BOT CHORD	2x4 SP No.2 *Excep		,		closed; MWFRS								
	3-15:2x4 SP DSS, 6				erior(2E) -1-0-0 to								
WEBS	2x4 SP No.3 *Excep	ot* 13-15,11-9:2x4 SF	C		rior(2R) 7-11-8 to								
	No.2				one; cantilever let and right exposed			na					
SLIDER	Left 2x4 SP No.3 7	1-2-13			FRS for reaction								
BRACING	o				late grip DOL=1.6		Luniber						
TOP CHORD	Structural wood she				E 7-16; Pr=20.0 p			1 15					
		cept end verticals, a	nd o,		1.15); Pg=10.0 ps								
BOT CHORD	2-0-0 oc purlins (3-6 Rigid ceiling directly				OL = 1.15); Is=1.								
BOTCHORD	bracing.	applied of 7-11-11 C		Exp.; Ce=1.	0; Cs=1.00; Ct=1.	10, Lu=50	0-0-0						
WEBS	1 Row at midpt	9-11	4)	Unbalanced	snow loads have	been cor	sidered for th	nis					
		11= Mechanical		design.									
	Max Horiz 2=168 (L0		5)		as been designed								
	Max Uplift 2=-167 (L		13)		psf or 1.00 times			on					
	Max Grav 2=1220 (I				on-concurrent wit								
FORCES	(lb) - Maximum Corr		, 0)		in Load = 5.0 (psf								
1 ONOLO	Tension				s specific to the u			ent					
TOP CHORD	1-2=0/35, 2-3=-635/	99, 3-4=-2883/552,	7)		quate drainage to								
	4-5=-2232/450, 5-6=	-2421/534,	8)		as been designed							L. CA	~'A
	6-7=-2387/527, 7-9=	-1545/328, 9-10=-94	4/84, [′]		ad nonconcurrent			ds.				12THOA	Rd
	10-11=-155/61		9)	* This truss	has been designe	ed for a liv	e load of 20.0)psf			5	Ki Hee	in the
BOT CHORD	2-19=-363/1146, 18	,			m chord in all are						-	A BAFAY	ANUL -
	3-18=-599/2311, 17				by 2-00-00 wide v		veen the botto	om			C U	1 all all all all all all all all all al	141.1 2
	16-17=-681/2579, 1		1004		ny other members					-			1 1 1 E
	14-15=0/140, 6-15= 11-13=-323/1203	-338/132, 13-14=-33	, ,		er(s) for truss to t					=		SEA	L 1 1
WEBS	5-16=-85/441, 5-15=	100/69/	11		hanical connection							0251	• •
WEBS	13-15=-462/1746, 7	,			e capable of withs	standing 2	64 ib upilit at	joint		1		0351	os : :
	7-13=-720/228, 9-13		11		b uplift at joint 2. designed in acco	rdance w	ith the 2018			-	1	N	1 2
	9-11=-1500/366, 4-1		14		Residential Code			nd		3	-	·	a: 3
	3-19=-1197/386, 4-1				nd referenced sta						11	NGIN	EE
NOTES			13		Ind representatio			ize				JI	CE N
	ed roof live loads have	been considered for			ation of the purlin							1, LIUS	LEIN
this design				bottom chor	d.	-						111111	11111
0													1 1 0 1 0 0

April 21,2025

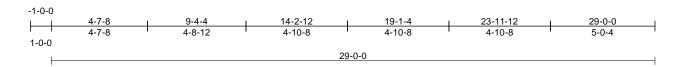
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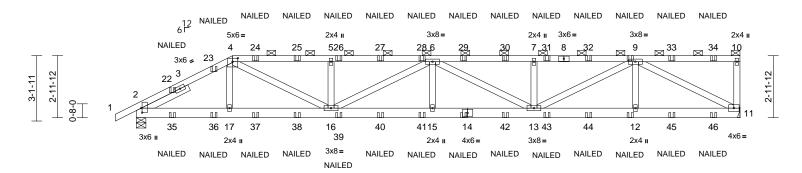


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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	Н9	Half Hip Girder	1	2	Job Reference (optional)	T37059107

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:57 ID:VgGea438YD6_torciM9flfzQTUH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





	4-5-12	9-4-4	14-2-12	19-1-4	23-11-12	29-0-0
	4-5-12	4-10-8	4-10-8	4-10-8	4-10-8	5-0-4
Scale = 1:55.3						

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

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		TC	0.20	Vert(LL)	0.13	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15		BC	0.34	Vert(CT)	-0.18	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	NO		WB	0.31	Horz(CT)	0.03	11	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MS								
BCDL	10.0											Weight: 350 lb	FT = 20%
	Max Horiz 2=103 (LC Max Uplift 2=-501 (L	athing directly applie cept end verticals, ar -0 max.): 4-10. applied or 10-0-0 oc I1= Mechanical C 11) C 9), 11=-592 (LC 9)	nd 4)	except if not CASE(S) see provided to c unless other Unbalanced this design. Wind: ASCE Vasd=103m II; Exp B; En cantilever lef right expose TCLL: ASCE	considered equa ed as front (F) or ction. Ply to ply co distribute only load wise indicated. roof live loads ha 7-16; Vult=130m oh; TCDL=6.0psf; closed; MWFRS t and right expose d; Lumber DOL=1 7-16; Pr=20.0 ps 1.15); Pg=10.0 ps	back (B) onnection ds noted ph (3-sec BCDL=3 (envelope ed; end v 1.60 plate of (roof LI	face in the LC s have been as (F) or (B), considered fo cond gust) .0psf; h=25ft; s) exterior zor vertical left an grip DOL=1. .: Lum DOL=	r ; Cat. ne; d 60 1.15	Inte R8 15) Gra bot 16) "N/ (0.: LOAD 1) D In U	ernationa 02.10.2 a aphical p the orien tom cho AILED" in 148"x3.2 CASE(S ead + Sr crease= niform L Vert: 1- oncentra	al Resident and resident resident for the second s	ferenced standard opresentation doe of the purlin along as 3-10d (0.148"x e-nails per NDS g ndard alanced): Lumber b/ft) 4-10=-45, 11-18 vads (lb)	ions R502.11.1 and d ANSI/TPI 1. ss not depict the size g the top and/or 3") or 3-12d uidlines.
FORCES	Max Grav 2=1236 (L (lb) - Maximum Com		(9)		OL = 1.15); ls=1.0); Cs=1.00; Ct=1.			lly		35=-4 (B), 36=	=0 (B), 37=-2 (B),	38=-2 (B), 39=-2 (B), , 43=-2 (B), 44=-2 (B),
	Tension		6)		snow loads have			nis		40=-2 (, 43=-2 (D), 44=-2 (D),
TOP CHORD	1-2=0/35, 2-4=-1870 5-6=-2846/1401, 6-7 7-9=-2961/1468, 9-1	′=-2961/1468, 0=-57/42, 10-11=-13	7)		as been designed psf or 1.00 times					45=-2 (B), 40=		
BOT CHORD	2-17=-837/1629, 16- 15-16=-1661/3273, 12-13=-968/1901, 1	13-15=-1661/3273,	8)	Building Des	on-concurrent wit igner/Project eng n Load = 5.0 (psf)	ineer res	ponsible for					WHYCA	ROIA
(0.131"x3") Top chords oc. Bottom cho staggered	4-17=-2/111, 4-16=- 6-16=-515/267, 6-15 6-13=-387/193, 7-13 9-13=-593/1180, 9-1 9-11=-2112/1053 to be connected toge) nails as follows: s connected as follows: ords connected as follows ords connected as follows: at 0-9-0 oc.	i≕-53/214, i≕-282/150, 2≕-53/224, ther with 10d s: 2x4 - 1 row at 0-9-0 ows: 2x6 - 2 rows	9) 10 11	Provide aded) This truss ha chord live loa 1) * This truss h on the bottor 3-06-00 tall t chord and ar 2) Refer to gird 3) Provide mec bearing plate	s specific to the us quate drainage to us been designed ad nonconcurrent has been designe n chord in all arec by 2-00-00 wide w y other members er(s) for truss to t hanical connectio e capable of withs b uplift at joint 2.	prevent for a 10.1 with any d for a liv as where vill fit betw s. russ conr on (by oth	water ponding 0 psf bottom other live load e load of 20.0 a rectangle veen the botto nections. ers) of truss to	g. ds.)psf om o			and the second second	SEA 0351	EEP.

April 21,2025

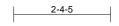
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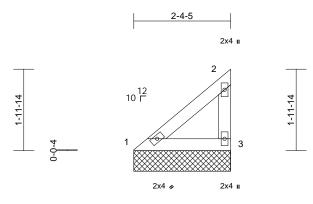


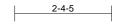
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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	V5A	Valley	1	1	Job Reference (optional)	T37059108

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Mon Apr 21 13:34:12 ID:dgpuEldDO_d?ftgZgULXrwzQAKI-VjryLKvTB6nAy8SYIXKW_b5geCH2nqqbs4GbifzOecP







Scale = 1:28.1

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15		BC	0.07	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	3/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 9 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Structural wood she 2-4-5 oc purlins, ex Rigid ceiling directly bracing. (Ib/size) 1=61/2-4- Max Horiz 1=58 (LC Max Uplift 1=-9 (LC Max Grav 1=89 (LC	cept end verticals. applied or 10-0-0 o 5, 3=61/2-4-5 11) 14), 3=-33 (LC 14) 2), 3=99 (LC 25)	10) c 11) LO	chord live lo * This truss on the botto 3-06-00 tall chord and a) Provide mee bearing plat 3 and 9 lb u) This truss is Internationa	as been designed ad nonconcurren has been design m chord in all are by 2-00-00 wide ny other member chanical connecti e capable of with plift at joint 1. designed in acco IR esidential Cod ind referenced st Standard	nt with any ed for a liv eas where will fit betw rs. ion (by oth istanding 3 ordance w de sections	other live loa e load of 20.1 a rectangle veen the both ers) of truss t 33 lb uplift at j ith the 2018 \$ R502.11.1 a	Opsf om to joint					
FURGES	 (lb) - Max. Comp./Ma (lb) or less except w 		200										
this design	ed roof live loads have		r										

2) Wind: AŠCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; 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 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); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.



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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	V4A	Valley	1	1	Job Reference (optional)	T37059109

3-6-12

3-6-12

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

2-11-14

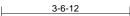
Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:02 ID:dgpuEIdDO_d?ftgZgULXrwzQAKI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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2x4 🍫

Scale = 1:31.9

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15		BC	0.16	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	IRC20	18/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 15 lb	FT = 20%
	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 3-6-12 oc purlins, e Rigid ceiling directly bracing. (size) 1=3-6-12, Max Horiz 1=94 (LC Max Uplift 1=-12 (LC Max Grav 1=137 (LC	xcept end verticals. applied or 10-0-0 or 3=3-6-12 11) 2 14), 3=-52 (LC 14)	с ⁹ 1	 verifying Rai requirement: Gable requir Gable studs This truss ha chord live loi * This truss I on the botton 3-06-00 tall I chord and ar Provide mec bearing plate 	igner/Project eng n Load = 5.0 (psl s specific to the u es continuous bo spaced at 4-0-0 is been designed ad nonconcurren has been designed n chord in all are by 2-00-00 wide hanical connectio a capable of withs	 covers r use of this ottom chor oc. I for a 10.0 t with any ed for a liv as where will fit betw s. con (by other 	ain loading truss compor d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t	ds.)psf om o					
FORCES	(lb) - Maximum Com Tension		1	1) This truss is	uplift at joint 1. designed in acco Residential Code			nd					
TOP CHORD	1-2=-167/98, 2-3=-1	17/154			nd referenced sta			ina					
BOT CHORD	1-3=-183/165		L	OAD CASE(S)	Standard								
NOTES			_	(-)									
 Unbalance this design 	d roof live loads have	been considered fo	r										
 Wind: ASC Vasd=103r II; Exp B; E and C-C E: 3-5-4 zone vertical left forces & M DOL=1.60 	E 7-16; Vult=130mph nph; TCDL=6.0psf; Br inclosed; MWFRS (er kterior(2E) 0-0-5 to 3- ; cantilever left and rig and right exposed;C- WFRS for reactions s plate grip DOL=1.60	CDL=3.0psf; h=25ft; ivelope) exterior zor 0-5, Interior (1) 3-0-5 ght exposed ; end C for members and hown; Lumber	ne 5 to								And And		FID INA THE

- 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. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
- 4) Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10



April 21,2025



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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	V3A	Valley	1	1	Job Reference (optional)	T37059110

4-9-2

4-9-2

7

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

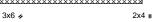
3-11-14

0-0

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:02 ID:dgpuEIdDO_d?ftgZgULXrwzQAKI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

2x4 🛛 2 3-11-14 0 3



4-9-2

12 10 Г

6

1

Scale = 1:35.8

Scale = 1:35.8													
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 7.7/10.0 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-MP	0.30 0.29 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 21 lb	GRIP 244/190 FT = 20%
BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS (M FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Unbalanced this design. 2) Wind: ASCI Vasd=103rr II; Exp B; EI and C-C Ex 4-7-11 zone vertical left forces & MU DOL=1.60 [3) Truss desig only. For st see Standa or consult q 4) TCLL: ASC Plate DOL= 1.15 Plate ID	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 4-9-2 oc purlins, ex Rigid ceiling directly bracing. size) 1=4-9-2, 3 Max Horiz 1=129 (LC Max Uplift 1=-16 (LC Max Grav 1=185 (LC (Ib) - Maximum Com Tension 1-2=-233/133, 2-3=- 1-3=-238/227 d roof live loads have E 7-16; Vult=130mph nph; TCDL=6.0psf; Binclosed; MWFRS (er terior(2E) 0-0-5 to 3- 9; cantilever left and r and right exposed; C- VFRS for reactions s blate grip DOL=1.60 ned for wind loads in fuds exposed to wind rd Industry Gable En ualified building desis E 7-16; Pr=20.0 psf (1.15); Pg=10.0 psf (1.15); rB=10.1 psf, F DOL = 1.15); Is=1.0; lo; Ct=1.10	cept end verticals. applied or 10-0-0 o 3=4-9-2 C 11) C 14), 3=-71 (LC 14) C 2), 3=209 (LC 25) pression/Maximum 159/205 been considered fo (3-second gust) CDL=3.0psf; h=25ft; welope) exterior zor 0-5, Interior (1) 3-0- ight exposed ; end C for members and hown; Lumber the plane of the tru (normal to the face d Details as applical gner as per ANSI/TF roof LL: Lum DOL= Pf=7.7 psf (Lum DOI	c 9) 10 11 11 11 11 10 5 to 5 to 5 to 5 to 5 to 5 to 11. 1.15 L =	verifying Rai requirement: Gable requir Gable studs This truss ha chord live loa * This truss loa chord live loa * This truss loa on the botton 3-06-00 tall l chord and an Provide mee bearing platt 3 and 16 b ot) This truss is International	igner/Project eng in Load = 5.0 (psf s specific to the u es continuous bo spaced at 4-0-0 i as been designed ad nonconcurren has been designed n chord in all are by 2-00-00 wide v ny other members thanical connection e capable of withs uplift at joint 1. designed in accor Residential Cod nd referenced sta Standard) covers r ise of this totom choroc. I for a 10.t t with any d for a liv as where will fit betw s. on (by oth standing 7 ordance w e sections	ain loading truss compor d bearing. D psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t 11 b uplift at ji ith the 2018 s R502.11.1 a	ds.)psf om o					• -

- DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For stude 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); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

April 21,2025



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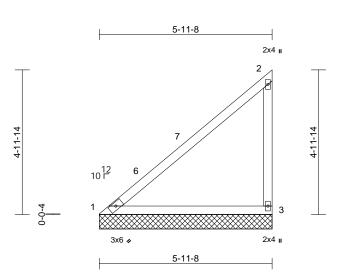
Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	V2A	Valley	1	1	Job Reference (optional)	T37059111

5-11-8

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880.

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:01 ID:9TFV1zcbegV82j5N6nqIIjzQAKJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.7

Scale = 1:39.7														
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 7.7/10.0 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	0.50 0.47 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 26 lb	GRIP 244/190 FT = 20%	
WEBS BRACING TOP CHORD BOT CHORD REACTIONS (FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Unbalanceet this design. 2) Wind: ASCI Vasd=103n II; Exp B; E and C-C Exp 5-10-1 zone vertical left forces & MI DOL=1.60 [3) Truss desig only. For s see Standa or consult c Plate DOL= 1.15 Plate I	Max Horiz 1=165 (LC Max Uplift 1=-19 (LC Max Grav 1=233 (LC (Ib) - Maximum Com Tension 1-2=-297/168, 2-3=- 1-3=-265/286 d roof live loads have	xcept end verticals. applied or 10-0-0 oc 3=5-11-8 C 11) C 14), 3=-90 (LC 14) C 2), 3=263 (LC 25) pression/Maximum 199/251 been considered for (3-second gust) CDL=3.0psf; h=25ft; ivelope) exterior zon 0-5, Interior (1) 3-0-5 ight exposed ; end C for members and hown; Lumber the plane of the trus (normal to the face) d Details as applicab gner as per ANSI/TP roof LL: Lum DOL=1 7=7.7 psf (Lum DOL	9) 10, 11, LO Cat. e to s , le, .15 =	verifying Rain requirements Gable require Gable studs: This truss ha chord live loa * This truss ha chord live loa * This truss ha on the bottom 3-06-00 tall b chord and ar) Provide mech bearing plate 3 and 19 lb u) This truss is International	igner/Project eng igner/Project eng in Load = 5.0 (psf is specific to the u es continuous bo spaced at 4-0-0 i is been designed a concourrent ias been designed n chord in all are y 2-00-00 wide v yo other members hanical connection capable of withs plift at joint 1. designed in accor Residential Code nd referenced sta Standard) covers r se of this ttom chor bc. for a 10.1 with any d for a liv with any d for a liv as where vill fit betw s. on (by oth ttanding S rdance w e sections	ain loading truss comport d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t 00 lb uplift at j ith the 2018 s R502.11.1 a	ads. Opsf om to joint				SEA 0351		

April 21,2025

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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	V1A	Valley	1	1	Job Reference (optional)	T37059112

Scale = 1:45.2 Loading

TCLL (roof)

TCDL

BCLL

BCDL

LUMBER

WFBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

WEBS

NOTES 1)

2)

TOP CHORD

BOT CHORD

this design.

REACTIONS (size)

TOP CHORD

BOT CHORD

2x4 SP No.2

2x4 SP No.2

2x4 SP No 3

2x4 SP No.3

bracing.

Max Grav

Tension

2-5=-282/317

Snow (Pf/Pg)

Page: 1

GRIP

244/190

FT = 20%

Run: 8.83 S. Apr 11 2025 Print: 8.830 S. Apr 11 2025 MiTek Industries. Inc. Fri Apr 18 11:34:01 ID:9TFV1zcbegV82j5N6nqIIjzQAKJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-1-15 7-1-15 2x4 ı 3 2x4 I 5-11-14 11-14 2 8 è 12 10 F -0-0 4 2x4 🍫 2x4 II 2x4 II 7-1-15 Spacing 2-0-0 CSI DEFL l/defl L/d PLATES (psf) in (loc) 20.0 Plate Grip DOL 1.15 TC 0.53 Vert(LL) n/a 999 MT20 n/a BC 7 7/10 0 Lumber DOL 1 15 0.12 Vert(TL) n/a n/a 999 10.0 Rep Stress Incr YES WB 0.09 Horiz(TL) 0.00 4 n/a n/a 0.0 Code IRC2018/TPI2014 Matrix-MP 10.0 Weight: 35 lb 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 Building Designer/Project engineer responsible for 5) verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component. Structural wood sheathing directly applied or Gable requires continuous bottom chord bearing. 6) 6-0-0 oc purlins, except end verticals. Gable studs spaced at 4-0-0 oc. 7) Rigid ceiling directly applied or 10-0-0 oc 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 1=7-1-15, 4=7-1-15, 5=7-1-15 9) * This truss has been designed for a live load of 20.0psf Max Horiz 1=201 (LC 11) on the bottom chord in all areas where a rectangle Max Uplift 1=-32 (LC 10), 4=-62 (LC 11), 3-06-00 tall by 2-00-00 wide will fit between the bottom 5=-179 (LC 14) chord and any other members. 1=140 (LC 26), 4=148 (LC 25), 10) Provide mechanical connection (by others) of truss to 5=378 (LC 25) bearing plate capable of withstanding 32 lb uplift at joint (lb) - Maximum Compression/Maximum 1, 62 lb uplift at joint 4 and 179 lb uplift at joint 5. 11) This truss is designed in accordance with the 2018 1-2=-420/257, 2-3=-200/148, 3-4=-150/188 International Residential Code sections R502.11.1 and 1-5=-133/154, 4-5=-95/103 R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard Unbalanced roof live loads have been considered for Annun Annun Wind: ASCE 7-16; Vult=130mph (3-second gust) 0 Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-2-4, Interior (1) 3-2-4 to 7-0-8 zone; cantilever left and right exposed ; end

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 gualified building designer as per ANSI/TPI 1.

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

3)

April 21,2025

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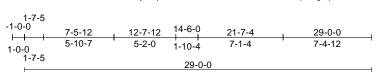


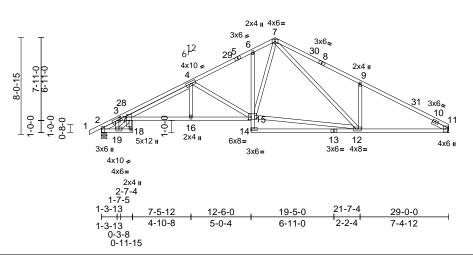
Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	T1	Roof Special	3	1	Job Reference (optional)	T37059113

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:01 ID:8RxJyZoLjSL6EP9NQkmVO0zQTUd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:96.2

Plate Offsets (X, Y): [2:0-3-8,Edge], [11:0-3-9,0-1-5], [15:0-2-12,0-2-8]

				-	1							1		
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.94	Vert(LL)	-0.21	12-14	>999	240	MT20	244/190	
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15		BC	0.98	Vert(CT)	-0.49	12-14	>707	180			
TCDL	10.0	Rep Stress Incr	YES		WB	0.78	Horz(CT)	0.21	11	n/a	n/a			
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MS									
BCDL	10.0											Weight: 177 lb	FT = 20%	
LUMBER			2)	Wind: ASCE	7-16; Vult=130m	nh (3-sec	cond aust)							
TOP CHORD	2x4 SP No.2		<i></i>)		ph; TCDL=6.0psf;			: Cat.						
BOT CHORD		ot* 18-17:2x4 SP No.3			closed; MWFRS									
Der enerte	3-15:2x4 SP No.1		,		erior(2E) -1-0-0 to									
WEBS	2x4 SP No.3 *Excep	ot*		14-6-0, Exte	rior(2R) 14-6-0 to	17-6-0, I	nterior (1) 17	-6-0						
	17-4,12-15,15-7,12-			to 29-0-0 zo	ne; cantilever left	and right	exposed ; er	nd						
SLIDER	Left 2x4 SP No.2 1	1-4-0, Right 2x4 SP N	0.3		and right exposed									
	1-6-0	-			VFRS for reaction		Lumber							
BRACING					late grip DOL=1.6									
TOP CHORD	Structural wood she	athing directly applied	. 3)		E 7-16; Pr=20.0 ps									
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc			1.15); Pg=10.0 ps									
	bracing, Except:			1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially										
	2-2-0 oc bracing: 16		4)	Exp.; Ce=1.0; Cs=1.00; Ct=1.10 Unbalanced snow loads have been considered for this										
	9-9-13 oc bracing: 1		4)	design.	Show loads have	Deen coi		1115						
REACTIONS		11= Mechanical	5)		as been designed	for great	er of min root	live						
	Max Horiz 2=131 (LC		- /		psf or 1.00 times									
	Max Uplift 2=-217 (L				ion-concurrent wit									
	Max Grav 2=1221 (L	_C 2), 11=1159 (LC 2)	6)		signer/Project eng									
FORCES	(lb) - Maximum Com	pression/Maximum		verifying Rai	in Load = 5.0 (psf) covers r	ain loading							
	Tension				s specific to the u			nent.				_		
TOP CHORD	,		7)		as been designed								1111	
	4-6=-1714/344, 6-7=	,			ad nonconcurrent							N'LA CA	DA'II	
	7-9=-1920/465, 9-11		8)		has been designe			0psf				all.A.	PI Ya	
BOT CHORD	2-19=-341/1359, 18- 17-18=-20/99, 3-17=				m chord in all area						5	O AHAS	in Mar	
	16-17=-410/2183, 1				by 2-00-00 wide w ny other members		veen the bott	om			52		AND THE	
		-166/105, 12-14=-4/17	' 8, 9)		ler(s) for truss to t		actiona					:01	K: =	
	11-12=-229/1652	100/100, 12 14= 4/17	, v,		chanical connection			to		-		-	=	
WEBS		6=0/313, 4-15=-844/2	259.		e capable of withs						:	SEA	L : =	
	12-15=-122/1070, 7-		,		uplift at joint 11.			John		=		0351	83 =	
	7-12=-281/670, 9-12		11		designed in acco		ith the 2018			-		. 0551	00 : E	
	3-19=-1423/367, 17-	-19=-466/1886			Residential Code			and			-	1	1 S S	
NOTES					nd referenced sta					3	1	·	A. S	
	ed roof live loads have	been considered for	L	DAD CASE(S)	Standard						in the second second	GIN	EF	
this design				(-)							11	, Jun	EE N	
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												11111	IIII.	
													April 21 202	

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818 Soundside Road Edenton, NC 27932

April 21,2025

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A9	Common	1	1	Job Reference (optional)	T37059114

Scale = 1:74.9

Loading

TCDL

BCLL

BCDL

WEBS

SLIDER

BRACING

TOP CHORD

BOT CHORD

REACTIONS

FORCES

TOP CHORD

BOT CHORD

this design.

WEBS

NOTES

1)

2)

LUMBER

TOP CHORD

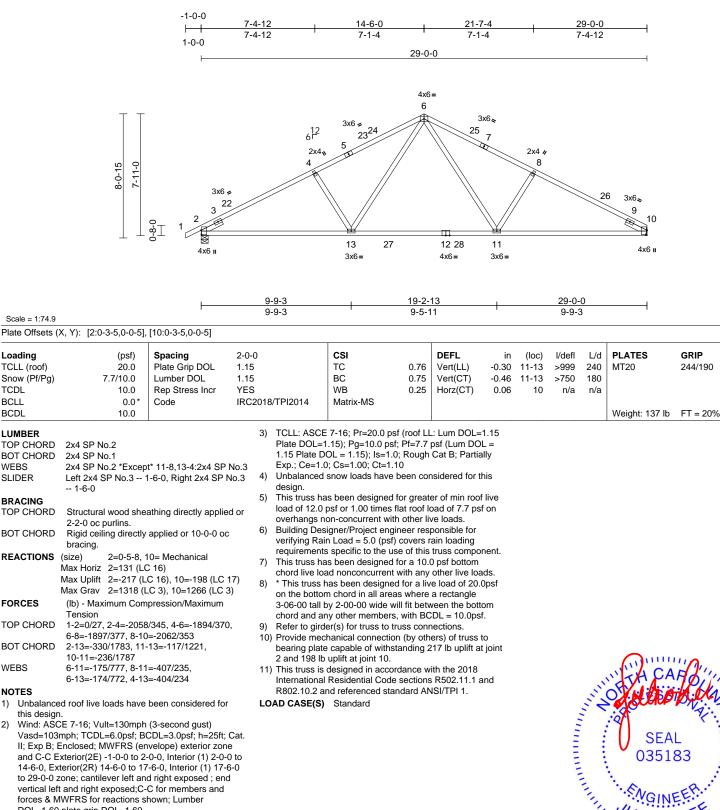
BOT CHORD

TCLL (roof)

Snow (Pf/Pg)

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:53 ID:g_rWBPa2zw3f4enwMyRHgDzQTUv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 17-6-0, Interior (1) 17-6-0 to 29-0-0 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

April 21,2025

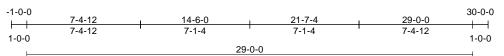
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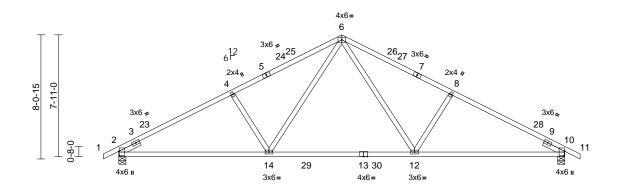


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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A8	Common	9	1	Job Reference (optional)	T37059115

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:53 ID:Cnl8z3ZQCdxoSVCkpEw270zQTUw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:74.9 9-9-3 9-5-11 9-9-3 Plate Offsets (X, Y): [2:0-3-5,0-0-5]. Exactly and the second sec
Plate Offsets (X, Y): [2:0-3-5,0-0-5]; [10:0-3-5,0-0-5] Loading (psi) Spacing 2-0-0 CSI DEFL in (loc) I/deft L/d PLATES GRIP Snow (Pf/Pg) 7.7/10.0 Plate Grip DOL 1.15 BC 0.74 Vert(LT) -0.30 12.14 >999 240 MT20 244/190 SCDL 0.00 Rep Stress incr YES BC 0.74 With:-MS Vert(CT) -0.47 12-14 >744 180 DCDL 10.0 Rep Stress incr YES Matrix-MS Vert(CT) -0.47 12-14 >744 180 DCDL 10.0 Code IRC2018/TPI2014 Matrix-MS Matrix-MS Weight: 139 lb FT = 20% LUMBER Code IRC2018/TPI2014 Matrix-MS Struct AS P No.3 -16-0 Structural wood sheathing directly applied or 10-0-0 oc bracing. Structural wood sheathing directly applied or 10-0-0 oc bracing. Structural wood sheathing directly applied or 10-0-0 oc bracing. Structural wood sheathing directly applied or 10-0-0 oc bracing.
TCLL (root) 20.0 Plate Grip DOL 1.15 TC 0.76 Vert(LL) -0.30 12-14 >989 240 MT20 244/190 Snow (Pt/Pg) 7.7/10.0 Lumber DOL 1.15 BC 0.76 Vert(LL) -0.47 12-14 >989 240 MT20 244/190 BCLL 0.0* Bc Stress Incr YES WB 0.25 WB Horz (CT) 0.06 10 n/a n/a BCDL 10.0 10.0 Code IRC2018/TPI2014 WB Vert(CT) 0.06 10 n/a n/a BCDL 10.0 10.0 TCLL: ASCE 7-16; Pr=20.0 psf (root LL: Lum DOL=1.15 Vert(Um DOL = 1.15 Plate DOL = 1.15; Plate DOL = 0.0 psf. Plate 7.7 psf (Lum DOL = 1.15 Plate DOL = 0.0 psf. Plate 7.7 psf (Lum DOL = 1.15 Plate DOL = 0.0 psf. Plate 7.7 psf (Lum DOL = 1.15 1.15 Plate DOL = 0.0 psf. Plate 7.7 psf (Lum DOL =
 10-12=-219/1781 6-12=-174/772, 8-12=-404/234, 6-14=-174/772, 8-12=-404/234 WEBS 6-14=-174/772, 8-12=-404/234 IO) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP11. LOAD CASE(S) Standard Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-0-0 to 2-0-0, Interior (1) 2-0-0 to 14-6-0, Exterior(2E) 14-6-0 to 17-6-0, Interior (1) 2-0-0 to 14-6-0, Exterior(2E) 14-6-0 to 17-6-0, Interior (1) 2-0-0 to 14-6-0, Exterior(2E) 14-6-0 to 17-6-0, Interior (1) 17-6-0 to 30-0-0 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

> minin April 21,2025

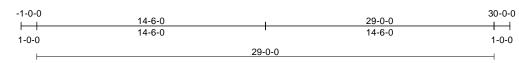
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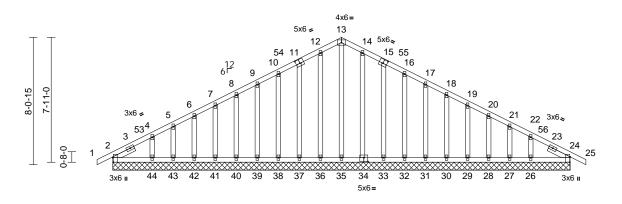


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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A3E	Common Supported Gable	1	1	Job Reference (optional)	T37059116

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:51 ID:z3Fk4_SnJsp4t60?nrGxG7zQTV3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





29-0-0

Scale =	1:73.1

Offsets (X, Y):	[2:0-3-8,Edge], [11:0-3-0,0-3-0], [15:0-3-0,0-3-0], [24:0-4-1,Edge], [34:0-3-0,0-3-0]

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.15		TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)		7.7/10.0	Lumber DOL	1.15		BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr	YES		WB	0.15	Horz(CT)	0.01	24	n/a	n/a		
BCLL		0.0*	Code	IRC2	018/TPI2014	Matrix-MS	3							
BCDL		10.0											Weight: 218 lb	FT = 20%
LUMBER							=170 (LC 2), 24			1) Unt	alanced	d roof l	ive loads have be	en considered for
TOP CHORD	2x4 SP N	o.2					6=174 (LC 37),				design.			
BOT CHORD	2x4 SP N	o.2					8=112 (LC 37),						; Vult=130mph (3	
OTHERS		o.3 *Excep					0=107 (LC 37),							L=3.0psf; h=25ft; Ca
	,		4-14,33-15:2x4 SP				2=105 (LC 2), 3 4=110 (LC 37),							lope) exterior zone , Exterior(2N) 2-0-0
SLIDER	Left 2x4 S	SP N0.3 1	1-6-0, Right 2x4 SP	N0.3			4=110 (LC 37), 6=110 (LC 36),						3R) 14-6-0 to 17-	
BRACING	1-0-0						8=105 (LC 2), 3							ft and right exposed
TOP CHORD	Structura	wood she	athing directly applie	ed or			0=107 (LC 36),							C-C for members and
	6-0-0 oc r		ating areouy applic				2=112 (LC 36),	43=82 (LC 2	2),				for reactions sho	wn; Lumber
BOT CHORD			applied or 10-0-0 or	с			4=174 (LC 36)						rip DOL=1.60	
	bracing.	• •			FORCES		um Compressio	on/Maximum						e plane of the truss
REACTIONS	(size)		24=29-0-0, 26=29-0			Tension	4 405/05 4 5	00/04						ormal to the face), Details as applicable,
			0, 28=29-0-0, 29=29	,	TOP CHORD	,	-4=-135/65, 4-5 6-7=-63/95, 7-8	,						er as per ANSI/TPI 1
			0, 31=29-0-0, 32=29	,		,	6, 9-10=-65/151	,	214					of LL: Lum DOL=1.15
), 34=29-0-0, 35=29), 37=29-0-0, 38=29				236, 13-14=-99/		2,					7.7 psf (Lum DOL =
), 37=29-0-0, 38=29), 40=29-0-0, 41=29	,			213, 16-17=-64/							ugh Cat B; Partially
), 43=29-0-0, 44=29	/		17-18=-52/1	21, 18-19=-41/	91, 19-20=-3					=1.00; Ct=1.10	
	Max Horiz						29, 21-22=-56/1	6, 22-24=-83	3/29,	,		d snow	loads have been	considered for this
			2 17), 24=-3 (LC 13),	,		24-25=0/27				des	ıgn.		0	
	-	26=-89 (L	C 17), 27=-17 (LC 1	17),	BOT CHORD		8, 43-44=-34/1		34/118,				A.V.	1111
			.C 17), 29=-36 (LC 1				18, 40-41=-34/ 18, 38-39=-34/	,					NA CA	Rollin
			.C 17), 31=-37 (LC 1				18, 36-37=-34/					1	HAN LAAA	N. Hale
			C 17), 33=-44 (LC 1				19, 33-35=-34/					32	HUVRANX	DAL MASS
			.C 17), 36=-27 (LC 1 .C 16), 38=-36 (LC 1				19, 31-32=-34/				-	:)	1×	4. 2
			.C 16), 38=-36 (LC 1 .C 16), 40=-37 (LC 1			30-31=-34/1	19, 29-30=-34/	119,				6	:4	1 1 2
			.C 16), 42=-42 (LC 1				19, 27-28=-34/				=		SEA	L 1 E
			C 16), 44=-101 (LC				19, 24-26=-34/				=		0251	00 : =
					WEBS		/40, 12-36=-83/		31/60,		1		0351	oo ; :
							50, 9-39=-80/52 . 6-42=-82/55.	,	۷,				SEA 0351	1 E
							06, 14-34=-84/		, 31/60.		3	1	· En.	A. S
							50, 17-31=-80/5	,)/52,			14	GIN	EF.
							51, 20-28=-82/5	5, 21-27=-67	7/39,			11	Jun	FEIN
						22-26=-119	/104						1, LIUS	LLIN



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



Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A3E	Common Supported Gable	1	1	Job Reference (optional)	T37059116

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for 7) verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated. 8) 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 1-4-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 3 lb uplift at joint 24, 27 lb uplift at joint 36, 42 lb uplift at joint 37, 36 lb uplift at joint 38, 37 lb uplift at joint 39, 37 lb uplift at joint 40, 36 lb uplift at joint 41, 42 lb uplift at joint 42, 12 lb uplift at joint 43, 101 lb uplift at joint 44, 22 Ib uplift at joint 34, 44 lb uplift at joint 33, 35 lb uplift at joint 32, 37 lb uplift at joint 31, 37 lb uplift at joint 30, 36 Ib uplift at joint 29, 41 lb uplift at joint 28, 17 lb uplift at joint 27, 89 lb uplift at joint 26, 27 lb uplift at joint 2 and 3 lb uplift at joint 24.
- 14) 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

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:51 ID:z3Fk4_SnJsp4t60?nrGxG7zQTV3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

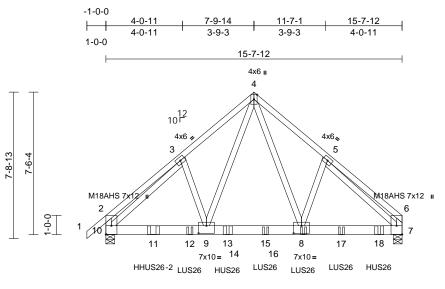
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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A1G	Common Girder	1	2	Job Reference (optional)	T37059117

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:50 ID:re3Xdo7HMlkG_ZjZVvlq?jzQTUC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	5-3-12	10-4-0	15-7-12	
Scale = 1:60.8	5-3-12	5-0-4	5-3-12	

Plate Offsets (X, Y): [2:Edge,0-3-8], [6:Edge,0-3-8], [8:0-5-0,0-4-12], [9:0-5-0,0-4-12]

		1 3 3 7 8 9 10 10 10	,-	1, 1, , -										
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.80	Vert(LL)	0.06	9-10	>999	240	MT20	244/190	
Snow (Pf/Pg)		Lumber DOL	1.15		BC	1.00	Vert(CT)	-0.11	7-8	>999	180	M18AHS	186/179	
TCDL	10.0	Rep Stress Incr	NO		WB	0.51	Horz(CT)	0.03	7	n/a	n/a			
BCLL	0.0*	Code		18/TPI2014	Matrix-MS									
BCDL	10.0										Weight: 236 lb	FT = 20%		
LUMBER TOP CHORD	2x4 SP No.2		3) Unbalanced this design.	roof live loads ha	ave been	considered fo	or					4-10d Girder, 4-10d 0 oc max. starting at	
BOT CHORD			4		7-16; Vult=130m	nph (3-seo	cond gust)						connect truss(es) to	
WEBS	2x4 SP No.2 *Excep SP No.3	ot* 8-5,9-3,10-3,7-5:2	2x4	II; Exp B; En	ph; TCDL=6.0psf closed; MWFRS	(envelope	e) exterior zo	ne;		nt face of all nail h			contact with lumber.	
BRACING					ft and right expos				LOAD	CASE(S) Sta	ndard		
TOP CHORD	Structural wood she 5-6-14 oc purlins, e		ed or	· ·	d; Lumber DOL=		•			ead + Sr crease=		alanced): Lumber	Increase=1.15, Plate	
BOT CHORD			c 5	Plate DOL=1	7-16; Pr=20.0 p 1.15); Pg=10.0 ps	sf; Èf=7.7	psf (Lum DO	L=	U	niform Lo Vert: 1-2		b/ft) 2-4=-35, 4-6=-35	i, 7-10=-20	
REACTIONS	(size) 7=0-5-8,	10=0-5-8			OL = 1.15); Is=1.		Cat B; Partia	illy	C	oncentra	ted Lo	ads (lb)		
	Max Horiz 10=189 (I		~); Cs=1.00; Ct=1.			live				F), 11=-1106 (F),		
	Max Uplift 7=-963 (L	.C 11), 10=-1186 (L0	C10) ^C		as been designed					13=-110	01 (F),	15=-790 (F), 17=	-790 (F), 18=-790 (F)	
	Max Grav 7=4908 (I			load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.										
FORCES	(lb) - Maximum Corr	pression/Maximum	7		igner/Project eng									
	Tension				verifying Rain Load = 5.0 (ps) covers rain loading									
TOP CHORD	,		50,		s specific to the u			nent.						
	4-5=-4796/1085, 5-6	,	8		e MT20 plates un			ed.						
	2-10=-1113/423, 6-7		g		as been designed									
BOT CHORD)=-552/2604,			ad nonconcurrent								•	
WEBS	7-8=-695/3568 4-8=-600/3143, 5-8=	1/1/252	1		has been designe			Opsf						
WEDS	4-9=-986/2989, 3-9=				m chord in all are by 2-00-00 wide v			~ m			1 .	VAH CA	Rall	
	3-10=-3521/678, 5-7	,			by 2-00-00 wide v						S	2 nim	a	
NOTES	0.00 002.00.0,0	0.00,001	1		hanical connection						4	IT LATES	BILLIK.	
	s to be connected toge	ther with 10d			e capable of withs						X		7: 7 -	
	3") nails as follows:				963 lb uplift at joi					2	Λ	2	K	
	ds connected as follows	s: 2x4 - 1 row at 0-9-	-0 1	2) This truss is	designed in acco	ordance w	ith the 2018				(\:	SEA	1 1 2	
oc.				International	Residential Code	e sections	s R502.11.1 a	nd		=	V	SLA	5 : E	
	hords connected as foll	ows: 2x6 - 2 rows			nd referenced sta					=		0351	83 : =	
	d at 0-7-0 oc.		1		n Strong-Tie HHL					=	3		1 3	
	nected as follows: 2x4 -) or equivalent at			to			1	·	1 1 E	
	are considered equally				s(es) to front face						1	· SNOW	EFT.	
	noted as front (F) or ba		DAD 1		n Strong-Tie LUS						14	GIN	E N	
	section. Ply to ply conr				ss, Single Ply Gir nax. starting at 4-						1	Ullic	IELIN	
	to distribute only loads herwise indicated.	noted as (F) of (B),			nnect truss(es) to							11105	unin'	
0111655 01				12 0 4 10 001				ioru.				SEA 0351	April 21 2025	

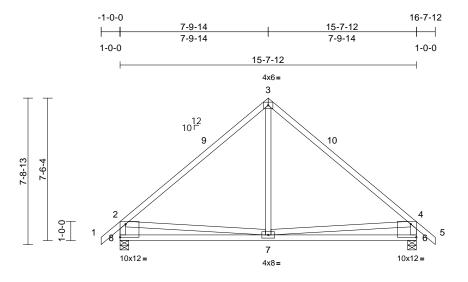
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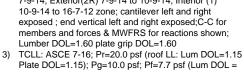
Job	Truss	Truss Type	Qty	Ply	1053 Serentity					
P02050-24644	A7	Common	1	1	Job Reference (optional)	T37059118				

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:52 ID:FPANYNYAg?h4DB3Lhqua2bzQTUy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



	7-9-14	15-7-12	L
	7-9-14	7-9-14	1
Scale = 1:60.8			
Plate Offsets (X, Y): [6:Edge,0-8-6], [8:Edge,0-8-6]			

	(X, T). [0.Luge,0-0-0],	[0.Luge,0-0-0]											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL LUMBER	(psf) 20.0 7.7/10.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code		This truss ha	CSI TC BC WB Matrix-MS				(loc) 7-8 7-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 92 lb	GRIP 244/190 FT = 20%
TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 Structural wood she 5-5-11 oc purlins, e		5) d or 6) 7)	overhangs n Building Des verifying Rain requirements This truss ha chord live loa * This truss h		h other li ineer res) covers r se of this for a 10. with any d for a liv	ve loads. ponsible for ain loading truss compo 0 psf bottom other live loa e load of 20.	onent. ads.					
REACTIONS (size) 6=0-5-8, 8=0-5-8 Max Horiz 8=200 (LC 13) Max Uplift 6=-110 (LC 15), 8=-110 (LC 14) Max Grav 6=683 (LC 2), 8=683 (LC 2) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/44, 2-3=-616/180 BOT CHORD 7-8=-382/604, 6-7=-293/461													
this design 2) Wind: ASC Vasd=103 II; Exp B; I and C-C E 7-9-14, Ex 10-9-14 to exposed ; members Lumber D 3) TCLL: ASC Plate DOL 1.15 Plate	ed roof live loads have	been considered for (3-second gust) CDL=3.0psf; h=25ft; (velope) exterior zone 0-0, Interior (1) 2-0-0 -9-14, Interior (1) ver left and right ght exposed; C-C for for reactions shown; L=1.60 roof LL: Lum DOL=1. Pf=7.7 psf (Lum DOL Rough Cat B; Partially	e) to 15 =								and a state of the	SEA 0351	• -



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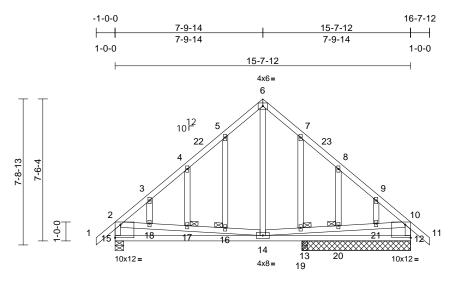


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Job	Truss	Truss Type	Qty	Ply	1053 Serentity					
P02050-24644	A6	Common Structural Gable	1	1	Job Reference (optional)	T37059119				

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:52 ID:Ndwsj0VfcnBfkalaS_peulzQTV0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:61				7-9-14 7-9-14		10-0-8 2-2-10	<u>15-</u> 5-7	7-12 7-4			
Plate Offsets (X, Y): [12:Edge,0-8-6], [15:Edge,0-8-6]									
Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.84	DEFL Vert(LL)	in -0.09	(loc) 14-15	l/defl >999	PLATES MT20	GRIP 244/190

Loading TCLL (roof) Snow (Pf/Pg) TCDL	(psf) 20.0 7.7/10.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.84 0.46 0.44	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.18 0.01	(loc) 14-15 14-15 12	l/defl >999 >642 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0* 10.0	Code	IRC201	3/TPI2014	Matrix-MS							Weight: 120 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD JOINTS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing. 1 Brace at Jt(s): 16, 17, 19, 20 (size) 12=5-9-0, Max Horiz 15=200 (L Max Uplift 12=-117 (Max Grav 12=636 (L 15=657 (L (lb) - Maximum Com Tension 1-2=0/44, 2-3=-575/ 4-5=-460/154, 5-6=- 7-8=-461/154, 5-6=- 7-8=-461/154, 5-6=- 7-8=-461/154, 5-6=- 10-11=0/44, 2-15=- 5 14-15=-303/533, 13- 12=13=-222/356 6-14=-69/256, 2-18= 17-18=-200/305, 16- 14-16=-212/319, 14- 19-20=-183/320, 20- 10-21=-181/317, 5-1 3-18=-47/68, 7-19=- 9-21=-48/71	applied or 10-0-0 oc 13=0-3-8, 15=0-5-8 C 13) LC 15), 15=-112 (LC C 2), 13=115 (LC 5), C 2) pression/Maximum 101, 3-4=-465/101, 385/175, 6-7=-384/17 465/99, 9-10=-577/11 79/182, 10-12=-583/ 14=-222/356, -202/308, 17=-204/310, 19=-190/328, 21=-179/315, 6=-29/39, 4-17=-121, 30/42, 8-20=-122/88,	d or 3) 14) 14) 5) 74, 01, 7) 181 8) 9) 10 11 /87,	Vasd=103mp II; Exp B; Enn and C-C Exte to 7-9-14, Ex 10-9-14 to 16 exposed ; en members ann Lumber DOL Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate D0 Exp.; Ce=1.0 This truss ha load of 12.0 j overhangs nn Building Des verifying Raii requirements All plates are Truss to be fi braced again Gable studs :) This truss ha on the bottom 3-06-00 tall tb chord and an) Provide mecl	7-16; Vult=130mp bh; TCDL=6.0psf; E closed; MWFRS (e erior(2E) -1-0-0 to terior(2R) 7-9-14 to 5-7-12 zone; cantili d vertical left and ri d forces & MWFRS =1.60 plate grip Di ed for wind loads i dis exposed to win d Industry Gable Ei alified building des 7-16; Pr=20.0 psf; 15); Pg=10.0 psf; 0.L = 1.15); Is=1.0; t; Cs=1.00; Ct=1.11 s been designed fr basf or 1.00 times fli on-concurrent with igner/Project engin n Load = 5.0 (psf) s specific to the use 2x4 () MT20 uni ully sheathed from st lateral moveme spaced at 2-0-0 oc s been designed f ad nonconcurrent v ias been designed n chord in all areas by 2-00-00 wide will y other members. hanical connection capable of withsts o uplift at joint 12.	BCDL=3 anvelope 1-9-14, o 10-9-1 ever left ight exp o 10-9-1 ever left ight exp ight exp o 10-9-1 ever left ight exp o 10-9-1 ever left ight exp o 10-9-1 ever left ight exp ight exp o 10-9-1 ever left ight exp ight exp o 10-9-1 ever left ight exp ight exp igh	.0psf; h=25ft) exterior zor Interior (1) 1- 4, Interior (1) and right loosed;C-C for- ctions shown) ane of the tru al to the face ils as applica s per ANSI/TI i.: Lum DOL= bsf (Lum DOL Cat B; Partial er of min roof pad of 7.7 psf ve loads. bonsible for ain loading truss compou prwise indica e or securely iagonal web)) psf bottom other live loa e load of 2.0.0 a rectangle veen the bottw ers) of truss t	ne 9-14) r; ss), ble, Pl 1. 1.15 L = Illy f on nent. ted. , uds. Opsf om	LOAD (rnationa i2.10.2 a CASE(S)	I Resident	erenced standard	ANSI/TPI 1.

April 21,2025

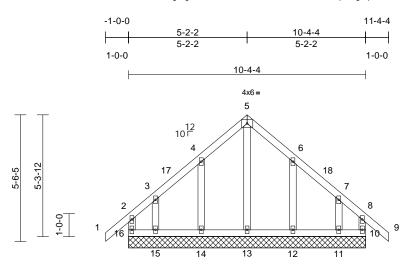
Page: 1



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Job	Truss	Truss Type	Qty	Ply	1053 Serentity				
P02050-24644	A2E	Common Supported Gable	1	1	Job Reference (optional)	T37059120			

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:51 ID:0g7zgIRWoEZMeotcfRETBizQTV5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



10-4-4

Scale =	1:50.3
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	7.	(psf) 20.0 .7/10.0 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	0.17 0.05 0.09	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	GRIP 244/190		
BCDL		10.0		1102010	" 11 1201 I								Weight: 62 lb	FT = 20%		
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS (size) 10=10-4-4, 11=10-4-4, 12=10-4-4, 13=10-4-4, 14=10-4-4, 15=10-4-4, 16=10-4-4 Max Horiz 16=-148 (LC 12)				3) -4-4,	Vasd=103m II; Exp B; Er and C-C Co to 5-2-2, Co 11-4-4 zone vertical left a forces & MW DOL=1.60 p Truss design only. For st	7-16; Vult=130r ph; TCDL=6.0ps (closed; MWFRS mer(3E) -1-0-0 to mer(3R) 5-2-2 to ; cantilever left a und right exposed /FRS for reaction late grip DOL=1. red for wind load uds exposed to v d Industry Gable	f; BCDL=3 (envelope 2-0-0, E) 8-2-2, Ex nd right e) d;C-C for r ns shown; 60 Is in the pl vind (norm	8.0psf; h=25ft; e) exterior zon (terior(2N) 2-0 terior(2N) 8-2- (posed ; end nembers and Lumber ane of the trus (all to the face)	e -0 -2 to ss	R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard						
	Max Horiz Max Uplift Max Grav	16=10-4-4 16=-148 (10=-65 (L 12=-90 (L 15=-113 (10=138 (L 12=188 (L	4 LC 12) C 11), 11=-108 (LC C 15), 14=-89 (LC 1 LC 14), 16=-83 (LC C 26), 11=150 (LC C 27), 13=181 (LC LC 26), 15=158 (LC	4) 15), 4), 10) 5) 27), 29), 26)	or consult qu TCLL: ASCI Plate DOL= 1.15 Plate D Exp.; Ce=1. This truss ha load of 12.0 overhangs r Building Des	alified building of = 7-16; Pr=20.0 p 1.15); Pg=10.0 p OL = 1.15); Is=1 0; Cs=1.00; Ct=1 as been designer psf or 1.00 times on-concurrent w signer/Project en n Load = 5.0 (ps	designer a: osf (roof Ll sf; Pf=7.7 .0; Rough .10 d for great s flat roof l ith other li gineer res	s per ANSI/TP .: Lum DOL=1 psf (Lum DOL Cat B; Partial er of min roof 1 bad of 7.7 psf ve loads. ponsible for	PI 1. .15 . = ly live							
FORCES	Tension		pression/Maximum	7)	requirement	s specific to the e 2x4 () MT20	use of this	truss compon					()) III	1100		
TOP CHORD	3-4=-56/10 6-7=-45/10 8-10=-113/	6, 4-5=-10 7, 7-8=-69 112	=0/44, 2-3=-88/90, 03/222, 5-6=-102/22 9/73, 8-9=0/44,	, 3) (00 10)	Truss to be braced agai Gable studs	res continuous be fully sheathed fro nst lateral moven spaced at 2-0-0	om one fac nent (i.e. c oc.	e or securely liagonal web).				NIN N	Notes of	Toreli's		
BOT CHORD	12-13=-73/	90, 11-12	5=-73/90, 13-14=-73/ 2=-73/90, 10-11=-73/	/90	chord live lo	as been designed ad nonconcurrer	nt with any	other live load					· · · · ·	х : 1		
WEBS	5-13=-198/ 3-15=-121/ 7-11=-121/	124, 6-12		12	on the botto 3-06-00 tall	has been design m chord in all are by 2-00-00 wide	eas where will fit betw	a rectangle					U SEA 0351	•		
NOTES1) Unbalanced roof live loads have been considered for this design.			r 13	 braced against lateral movement (i.e. diagonal web). (10) Gable studs spaced at 2-0-0 oc. (11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. (12) * 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. (13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 16, 65 lb uplift at joint 10, 89 lb uplift at joint 14, 113 lb uplift at joint 15, 90 lb uplift at joint 12 and 108 lb uplift at 								EEP.				

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 16, 65 lb uplift at joint 10, 89 lb uplift at joint 14, 113 lb uplift at joint 15, 90 lb uplift at joint 12 and 108 lb uplift at joint 11.

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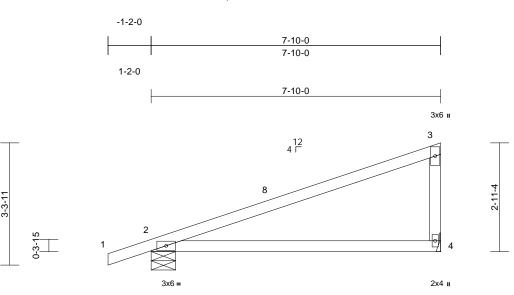
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

R502.11.1 and

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A5	Monopitch	4	1	Job Reference (optional)	T37059121

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Mon Apr 21 13:32:16 ID:RFp6IKTP49xxVGbBLZnAoKzQTV2-vPr6?fViVT9d1JaGVAEKH8Id5RXmcM6WB1ASdNzOeeD





7-10-0

Scale = 1:31.2

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 7.7/10.0 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	0.94 0.72 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.19 -0.36 0.00	(loc) 4-7 4-7 2	l/defl >482 >258 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 29 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES NOTES 1) Unbalanc this desig	2x4 SP No.2 2x4 SP No.3 Structural wood she 2-2-0 oc purlins, ex Rigid ceiling directly bracing. (Ib/size) 2=257/0-8 Max Horiz 2=111 (LC Max Uplift 2=-111 (LC Max Grav 2=383 (LC (Ib) - Max. Comp./M. (Ib) or less except w	cept end verticals. ² applied or 10-0-0 o 8-0, 4=210/ Mechan C 15) C 12), 4=-78 (LC 16 C 2), 4=302 (LC 2) (ax. Ten All forces then shown.	9) ic 1(ical 1 ⁻ 6) 250	chord live lo * This truss on the botto 3-06-00 tall chord and a Refer to girc) Provide mec bearing platt 4 and 111 lb 1) This truss is International	as been designer ad nonconcurren has been design m chord in all are by 2-00-00 wide ny other member ler(s) for truss to schanical connecti e capable of with o uplift at joint 2. designed in accr I Residential Cod nd referenced st Standard	at with any ed for a live as where will fit betw rs. truss conr on (by oth standing 7 ordance w le sections	other live load ve load of 20. a rectangle ween the bott nections. vers) of truss 78 lb uplift at vith the 2018 s R502.11.1 a	ads. Opsf tom to joint				<u>.</u>	

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-0 to 1-10-0, Interior (1) 1-10-0 to 7-8-4 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

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow 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 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

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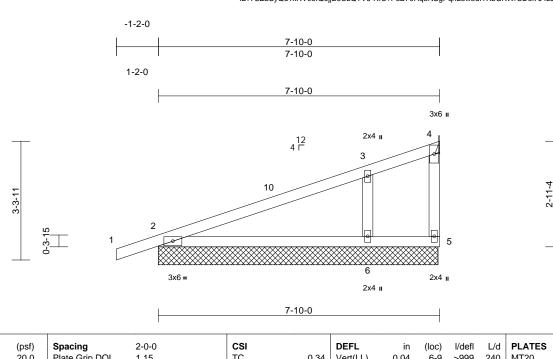
SEAL 035183

April 21,2025



Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A1E	Monopitch Supported Gable	1	1	Job Reference (optional)	T37059122

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:49 ID:YUZbSyQu1xRV0eIQ6jjEeUzQTV6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale 1.22.1 -

Scale = 1:32.1													
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 7.7/10.0 10.0 0.0*	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	0.34 0.27 0.11	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.04 -0.06 0.00	(loc) 6-9 6-9 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0			0,11,12011								Weight: 32 lb	FT = 20%
FORCES FOP CHORD 30T CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103r II; Exp B; E and C-C C 1-10-0 to 7 end vertica forces & M DOL=1.60 3) Truss desig only. For s see Standa	6=7-9-8 Max Horiz 2=111 (LC Max Uplift 2=-80 (LC 5=-33 (LC (LC 16), 6 (lb) - Maximum Com Tension 1-2=0/22, 2-3=-173/ 2-6=-80/114, 5-6=-4 3-6=-319/381 d roof live loads have	cept end verticals. applied or 10-0-0 or 4= Mechanical, 5=7- C 15) (12), 4=-29 (LC 33), (2), 6=-135 (LC 16) (2), 6=-135 (LC 16), (5), 4-14 (LC 16), 5 (2), 4=-14 (LC 16), 5 (2), 4=-14 (LC 16), 5 (3), 4=-66/69, 4-5 (5), 60 been considered for (3-second gust) CDL=3.0psf; h=25ft; ivelope) exterior zon 10-0, Exterior (ZN) left and right expose d(C-C for members hown; Lumber the plane of the trus; (normal to the face) d Details as applicat	ed or 6) c 7) 9-8, 8) 9) 5=10 10 5=0/0 11 5=0/0 12 r 13 Cat. 14 r 13 Cat. 14 r 13 solution	Plate DOL=1 1.15 Plate D Exp.; Ce=1.0 Unbalanced design. This truss ha load of 12.0 overhangs n Building Des verifying Rai requirements Gable studs This truss ha chord live loa)* This truss ha chord and ar) Refer to gird) Provide mec bearing plate 4, 33 lb uplift at joint 6 ance) This truss is International R802.10.2 a 4) Gap between	7-16; Pr=20.0 ps .15); Pg=10.0 ps OL = 1.15); Is=1.0 0; Cs=1.00; Ct=1. snow loads have is been designed psf or 1.00 times on-concurrent wit igner/Project eng n Load = 5.0 (psf, s specific to the ui- spaced at 2-0-0 c is been designed ad nonconcurrent has been designed ad nonconcurrent is been designed in chord in all area by 2-00-00 wide w ny other members er(s) for truss to t hanical connectio e capable of withs at joint 5, 80 lb ui 80 lb uplift at join designed in accoo Residential Code no referenced stan in inside of top cho- retrical web shall Standard	f; Pf=7.7 0; Rough 10 been cor for great flat roof k h other liv inneer ress 0 covers r se of this bo. for a 10.0 with any d for a liv as where vill fit betw s. russ conr on (by oth standing 2 uplift at joi nt 2. rdance w e sections undard AN ord bearin	psf (Lum DOI Cat B; Partia sidered for the er of min roof ve loads. consible for ain loading truss compor opsf bottom other live loa e load of 20.0 a rectangle veen the bottom ections. ers) of truss t 9 lb uplift at j nt 2, 135 lb u tith the 2018 R502.11.1 a (SJ/TPI 1. ng and first	L = Ily nis live f on nent. ds. Dpsf om oint plift				SEA 0351	83 EEEE LUU

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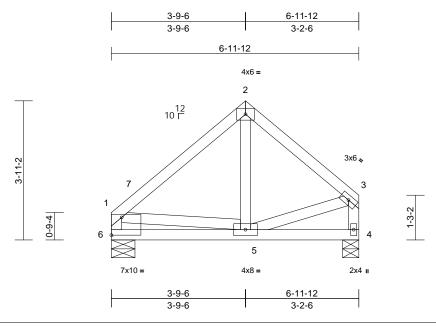
April 21,2025



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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A4	Common	4	1	Job Reference (optional)	T37059123

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:52 ID:RFp6IKTP49xxVGbBLZnAoKzQTV2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.5

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

	,, .). [0.2090,0 0 0]						-						
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL LUMBER TOP CHORD	(psf) 20.0 7.7/10.0 10.0 0.0* 10.0 2x4 SP No.2	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code		uilding Desi	CSI TC BC WB Matrix-MP gner/Project eng b Load = 5.0 (psf			in -0.01 -0.02 0.00	(loc) 5-6 5-6 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 40 lb	GRIP 244/190 FT = 20%
BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 or 5=0-8-0 11) 2 14), 6=-37 (LC 14)	re 5) T c c c c c c c c c c c c c c c c c c c	equirements his truss has hord live loa This truss h n the bottom -06-00 tall b hord and an rovide mech earing plate and 40 lb u his truss is o	specific to the us s been designed d nonconcurrent as been designed n chord in all area y 2-00-00 wide w y other members nanical connectio capable of withs plift at joint 4. designed in acco	se of this for a 10.0 with any d for a liv as where vill fit betv s. on (by oth standing 3 rdance w	truss compo o psf bottom other live loa e load of 20. a rectangle veen the bott ers) of truss 7 lb uplift at ith the 2018	ads. Opsf com to joint					
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this desigr 2) Wind: ASC Vasd=103 II; Exp B; I and C-C E to 3-9-6, E and right e C for mem	(lb) - Maximum Com Tension 1-2=-224/92, 2-3=-2 3-4=-249/134 5-6=-94/85, 4-5=-18 2-5=0/113, 1-5=-13/ ed roof live loads have	pression/Maximum 17/110, 1-6=-236/12 /20 145, 3-5=-25/151 been considered fo (3-second gust) CDL=3.0psf; h=25ft; ivelope) exterior zor i-1-12, Interior (1) 3- 10-0 zone; cantieve eft and right expose /FRS for reactions	R LOAI 23, r Cat. ne 1-12 r left		d referenced sta			2110			and a second	SEA 0351	ROL L 83
Plate DOL 1.15 Plate	CE 7-16; Pr=20.0 psf (=1.15); Pg=10.0 psf; F DOL = 1.15); Is=1.0; I 1.0; Cs=1.00; Ct=1.10	Pf=7.7 psf (Lum DOL Rough Cat B; Partial	_ =								A A A A A A A A A A A A A A A A A A A	SULIUS	EEP.

> minin April 21,2025

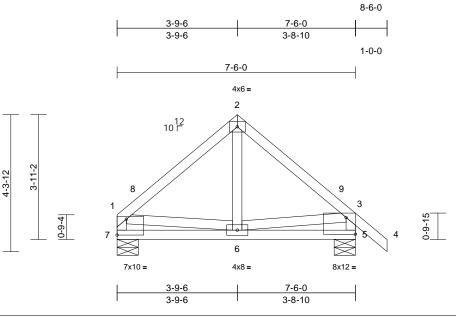


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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A3	Common	1	1	Job Reference (optional)	T37059124

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:51 ID:RKwpZaI333VHfjoGKr?6ZgzQTU_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.3

Plate Offsets (X, Y): [5:Edge,0-6-6], [7:Edge,0-6-0]

	(/(, 1): [0:Eugo,o o o],	[age,0 0 0]										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL LUMBER	(psf) 20.0 7.7/10.0 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/TPI2 4) This	2014 CSI TC BC WB Matrix-MP	0.26 0.12 0.06	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 6-7 6-7 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 44 lb	GRIP 244/190 FT = 20%
TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 oc	load ove 5) Buil veri d or requ 6) This cho 7) * Th on t	d of 12.0 psf or 1.00 tim rhangs non-concurrent ding Designer/Project e fying Rain Load = 5.0 (p uirements specific to the s truss has been design rd live load nonconcurrent his truss has been design he bottom chord in all a	es flat roof l with other li engineer res osf) covers i e use of this ed for a 10. ent with any ined for a liv ireas where	oad of 7.7 ps ve loads. ponsible for rain loading truss compo 0 psf bottom other live loa ve load of 20. a rectangle	of on onent. ads. Opsf					
FORCES TOP CHORD BOT CHORD WEBS	Max Horiz 7=-105 (L Max Uplift 5=-63 (LC Max Grav 5=363 (LC (Ib) - Maximum Com Tension 1-2=-248/108, 2-3=- 1-7=-254/132, 3-5=-	2 15), 7=-40 (LC 14) C 2), 7=283 (LC 2) pression/Maximum 267/119, 3-4=0/44, 335/203 1/12	cho 8) Pro bea 7 ar 9) This Inte R80	6-00 tall by 2-00-00 wid rd and any other memb vide mechanical connec ring plate capable of wi nd 63 lb uplift at joint 5. s truss is designed in ac rnational Residential Co 22.10.2 and referenced CASE(S) Standard	ers. ction (by oth thstanding 4 ccordance w ode sections	ers) of truss 40 lb uplift at rith the 2018 s R502.11.1 a	to joint					
NOTES	2-6=0/138, 1-6=-10/	101, 3-0=-1/1/4										
 Unbalance this design Wind: ASG Vasd=103 II; Exp B; and C-C E to 3-9-6, E 8-6-0 zone vertical lef forces & M DOL=1.6G TCLL: AS Plate DOL 1.15 Plate 	ed roof live loads have n. CE 7-16; Vult=130mph Bmph; TCDL=6.0psf; Bi Enclosed; MWFRS (er Exterior(2E) 0-1-12 to 3 Exterior(2E) 0-12 to 3 Exterior(2	(3-second gust) CDL=3.0psf; h=25ft; ivelope) exterior zon i-1-12, Interior (1) 3- 9-6, Interior (1) 6-9-6 ght exposed ; end C for members and hown; Lumber roof LL: Lum DOL=1 Y=7.7 psf (Lum DOL Rough Cat B; Partial	Cat. e 1-12 3 to .15 =							and the second second	SEA 0351	· -

- 8-6-0 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); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

818 Soundside Road Edenton, NC 27932

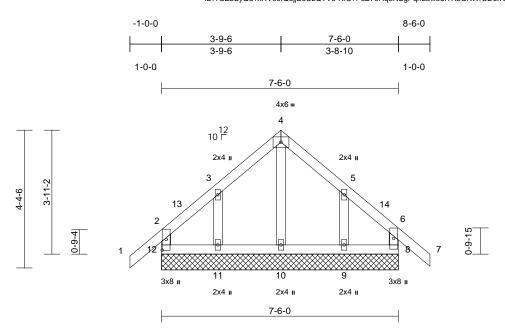
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S mm

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A2	Common Supported Gable	1	1	Job Reference (optional)	T37059125

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:50 ID:YUZbSyQu1xRV0eIQ6jjEeUzQTV6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:36.5

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

		1					1					-	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15		BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES		WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MR								
BCDL	10.0											Weight: 41 lb	FT = 20%
LUMBER			2)	Wind: ASCE	7-16; Vult=130m	ph (3-seo	cond gust)		13) Thi	s truss is	s desig	ned in accordan	ce with the 2018
TOP CHORD	2x4 SP No.2				ph; TCDL=6.0psf								tions R502.11.1 and
BOT CHORD	2x4 SP No.2				closed; MWFRS				R8(02.10.2 a	and ref	ferenced standar	d ANSI/TPI 1.
WEBS	2x4 SP No.3				erior(2E) -1-0-0 to				LOAD	CASE(S) Sta	ndard	
OTHERS	2x4 SP No.3				or(2R) 3-9-6 to 6-)					
BRACING				,	cantilever left and	0 1	,						
TOP CHORD		athing directly applie	d or		Ind right exposed								
	6-0-0 oc purlins, ex				/FRS for reaction late grip DOL=1.6		Lumber						
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc	3)		ned for wind loads		and of the true						
	bracing.		3)		ids exposed to w								
REACTIONS	· · · ·	9=7-6-0, 10=7-6-0,			d Industry Gable								
	11=7-6-0,				alified building de								
	Max Horiz 12=113 (I		4)		7-16; Pr=20.0 p								
	Max Uplift 8=-32 (LC		, ,		I.15); Pg=10.0 ps								
	,	LC 14), 12=-39 (LC 1	,		OL = 1.15); Is=1.								
	Max Grav 8=134 (L0); Cs=1.00; Ct=1.								
	10=177 (I 12=137 (I	-C 2), 11=175 (LC 26	^{o),} 5)		as been designed								
500050	(,			psf or 1.00 times			on					
FORCES	(lb) - Maximum Corr Tension	ipression/iviaximum			on-concurrent wit								
TOP CHORD	2-12=-120/128, 1-2=	0/44 2 2- 62/71	6)		igner/Project eng								•
I OF CHORD	3-4=-87/140, 4-5=-8				n Load = 5.0 (psf							minin	
	6-7=0/44, 6-8=-118/				s specific to the u			ent.			• • • •	J'TH CA	RALIN
BOT CHORD	11-12=-51/84, 10-11		7) 4. a)		es continuous bo ully sheathed from						K	KA	NA M
201 0110112	8-9=-51/84	0.00.00.00.00.00	., 8)		nst lateral movem						3	RULLERS	0. V.
WEBS		147/159, 5-9=-145/1	56 av		spaced at 2-0-0 (nagonai web).				: 1	we we	N. 7 :
NOTES	,		3)		as been designed		0 nsf hattam			-		:2	K: =
	ed roof live loads have	been considered for			ad nonconcurrent			ls.		-		054	1 E E
this design					has been designe					Ξ		SEA	L <u>i</u> E
the deelgi	••				n chord in all are			p0.		=	· •	0351	83 : =
					by 2-00-00 wide v		0	m				: 0001	··· : : :
					ny other members						-	N	1 2
			12		hanical connection		ers) of truss to	0			1	· En.	-R: :
					e capable of withs						14	GIN	EF
				12, 32 lb upl	ift at joint 8, 100 l	b uplift at	joint 11 and 9	7 lb			11	ULIUS	EE N
				uplift at joint	9.							11, LIUS	LLIN

April 21,2025

Page: 1

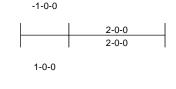


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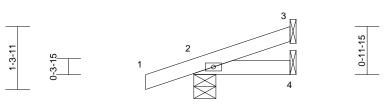
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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J8	Jack-Open	1	1	Job Reference (optional)	T37059126

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:00 ID:C3pZYtn5Cr4O?60?IJk1JbzQTUf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







2x4 =

2-0-0

Scale = 1:23.9

REACTIONS (size)

FORCES

NOTES

2)

3)

4)

design.

TOP CHORD

BOT CHORD

2=0-5-8, 3= Mechanical, 4=

2=-61 (LC 12), 3=-17 (LC 16), 4=-1

2=155 (LC 2), 3=41 (LC 2), 4=32

Mechanical

(LC 16)

(LC 7)

(lb) - Maximum Compression/Maximum

Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; 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;

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially

Unbalanced snow loads have been considered for this

This truss has been designed for greater of min roof live

load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.

Max Horiz 2=41 (LC 12)

1-2=0/19, 2-3=-31/12

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

Lumber DOL=1.60 plate grip DOL=1.60

Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Max Uplift

Max Grav

Tension

2-4=-2/33

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	0.07	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15		BC	0.03	Vert(CT)	0.00	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018	/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 8 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD	2-0-0 oc purlins.	athing directly applied	7)	verifying Ra requirement This truss ha chord live lo * This truss on the botto	signer/Project en in Load = 5.0 (ps s specific to the as been designe ad nonconcurrer has been design m chord in all ar by 2-00-00 wide	of) covers r use of this d for a 10. nt with any led for a liv eas where	ain loading truss compo 0 psf bottom other live loa e load of 20.0 a rectangle	ads. Opsf					

chord and any other members.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2, 1 lb uplift at joint 4 and 17 lb uplift at joint 3.

 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



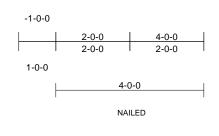
April 21,2025

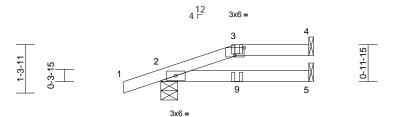


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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J7	Jack-Open Girder	1	1	Job Reference (optional)	T37059127

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:34:00 ID:zsq0nQ4mJXErVyQoG3huqtzQTUG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





NAILED

Scale = 1:31.1

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

Loading (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 12.7/10.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr N	0-0 15 15 O C2018/TPI2014	BC 0. WB 0. Matrix-MP	DEFL Vert(LL) 53 Vert(CT) 00 Horz(CT)	in -0.03 -0.06 0.04	(loc) 5-8 5-8 4	l/defl >999 >843 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 14 lb	GRIP 244/190 FT = 20%
REACTIONS (size) 4-0-0 oc purlins, e 2-0-0 oc purlins; a Rigid ceiling direct bracing. 2=0-5-8 Mechan Max Horiz 2=41 (L Max Uplift 2=-80 (LC 8) Max Grav 2=228 (LC 7)	-4. dy applied or 10-0-0 oc , 4= Mechanical, 5= ical C 8) -C 8), 4=-24 (LC 8), 5=-13 LC 2), 4=58 (LC 2), 5=99 ompression/Maximum /7, 3-4=0/0 //2 been considered for oh (3-second gust) BCDL=3.0psf; h=25ft; Cat envelope) exterior zone; d; end vertical left and .60 plate grip DOL=1.60 f (roof LL: Lum DOL=1.15 ; Pf=12.7 psf (Lum DOL = ; Rough Cat B; Partially 0, Lu=50-0-0	 load of 12.0 overhangs n Building Des verifying Rai requirement: 7) Provide aded 8) This truss ha chord live los 9) * This truss li on the bottoon 3-06-00 tall li chord and at 10) Refer to gird 11) Provide mec bearing platted 4, 80 lb uplif 12) This truss is International R802.10.2 a 13) Graphical pu or the orients bottom chore 14) "NAILED" in (0.148"x3.22; 15) In the LOAD of the truss at LOAD CASE(5) 1) Dead + Sne Increase=1 Uniform Lo Vert: 1-3 	dicates 3-10d (0.148"x: ") toe-nails per NDS gr CASE(S) section, load are noted as front (F) or Standard bw (balanced): Lumber .15 .15 .15 .15 .15 .15 .15 .15	of load of 7.7 ps er live loads. responsible for rs rain loading his truss compre- ent water pondin 10.0 psf bottom any other live lo a live load of 20 ere a rectangle between the bot connections. others) of truss g 24 lb uplift at ift at joint 5. e with the 2018 ons R502.11.1 ANSI/TPI 1. s not depict the the top and/or bottom s applied to the back (B).	sf on onent. ng. ads. .0psf ttom to joint and size				SEA 0351	EER. April 21,2025



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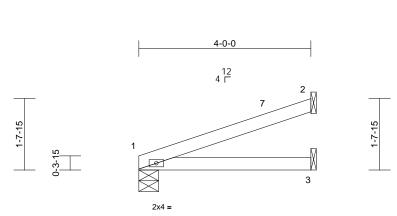
Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J6	Jack-Open	1	1	Job Reference (optional)	T37059128

4-0-0

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:59 ID:C3pZYtn5Cr4O?60?IJk1JbzQTUf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4-0-0



Scale = 1:26.8

00010 - 1.20.0														
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 7.7/10.0 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	0.21 0.19 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.02 -0.03 0.00	(loc) 3-6 3-6 1	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 12 lb	GRIP 244/190 FT = 20%	
	2x4 SP No.2 2x4 SP No.2 Structural wood she 4-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=0-5-8, 2 Mechanic Max Horiz 1=48 (LC Max Uplift 1=-28 (LC (LC 12) Max Grav 1=158 (LC (LC 7) (lb) - Maximum Corr	v applied or 10-0-0 or 2= Mechanical, 3= cal 12) C 12), 2=-43 (LC 12), C 2), 2=102 (LC 2), S	ed or c , 3=-2	 chord live lo. * This truss is on the bottoo 3-06-00 tall chord and ai 7) Refer to gird 8) Provide mec bearing platt 1, 43 lb uplif 9) This truss is International 	as been designed ad nonconcurrer has been design m chord in all are by 2-00-00 wide my other member ler(s) for truss to chanical connecti e capable of with t at joint 2 and 2 designed in acc Residential Coo nd referenced st Standard	nt with any ed for a liv eas where will fit betw rs. truss con ion (by oth istanding 2 Ib uplift at ordance w de sections	other live load re load of 20. a rectangle veen the bott nections. ers) of truss 28 lb uplift at joint 3. ith the 2018 & R502.11.1 a	ads. .0psf tom to joint						
TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=103	(ib) - Maximum Com Tension 1-2=-95/36 1-3=-83/83 CE 7-16; Vult=130mph mph; TCDL=6.0psf; B polosed: MWERS; G	n (3-second gust) CDL=3.0psf; h=25ft;											11110	

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 3-11-4 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

 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Unbalanced snow loads have been considered for this design.

 Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component. SEAL 035183

April 21,2025

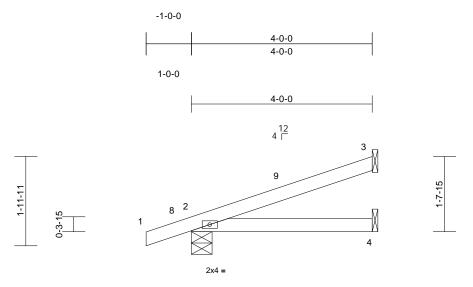


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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J5	Jack-Open	7	1	Job Reference (optional)	T37059129

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:59 ID:ksFBKXmSRXyXNyRolcDonOzQTUg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4-0-0

Scale	- 1	1.25 5

Scale = 1.23.3														
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.19	Vert(LL)	0.02	4-7	>999	240	MT20	244/190	
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15		BC	0.17	Vert(CT)	-0.02	4-7	>999	180			
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCLL	0.0*	Code	IRC2018	8/TPI2014	Matrix-MP									
BCDL	10.0											Weight: 14 lb	FT = 20%	
	4-0-0 oc purlins. Rigid ceiling directly bracing.	12)	7) : 8) 9)	verifying Rai requirements This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate	igner/Project eng n Load = 5.0 (ps; s specific to the u is been designed ad nonconcurren has been designed n chord in all are by 2-00-00 wide ty y other member er(s) for truss to hanical connecti e capable of with: t at joint 2 and 1	f) covers r use of this d for a 10.0 t with any ed for a liv eas where will fit betw s. truss con on (by oth standing 4	ain loading truss compo 0 psf bottom other live loa e load of 20. a rectangle ween the bott nections. ers) of truss 12 lb uplift at	ads. Opsf com to						

(LC 16) 2=225 (LC 2), 3=98 (LC 2), 4=70 Max Grav (LC 7) (lb) - Maximum Compression/Maximum Tension

- FORCES 1-2=0/19, 2-3=-68/25
- TOP CHORD BOT CHORD 2-4=-61/77

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 3) design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.

- 3, 71 lb uplift at joint 2 and 1 lb uplift at joint 4.
- 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. LOAD CASE(S) Standard

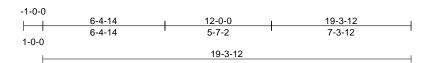


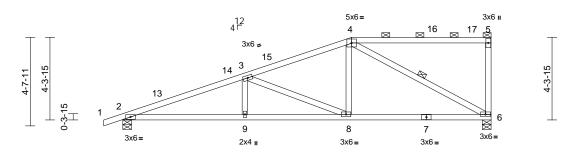
April 21,2025

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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	H8	Half Hip	1	1	Job Reference (optional)	T37059130

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:56 ID:JHa2iWja8cayWUiE3Tf59lzQTUj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





		1	6-4-14	1	11-10-4	1	19-3	3-12				
Scale = 1:60.4		F	6-4-14	1	5-5-6	I	7-5	5-8				
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 12.7/10.0 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-MS	0.78 0.67 0.51	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.19 0.04	(loc) 6-8 6-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 94 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.3 *Excep Structural wood she 3-10-14 oc purlins, 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-5-8, 6 Max Horiz 2=168 (LC Max Uplift 2=-210 (L Max Grav 2=828 (LC (Ib) - Maximum Com Tension 1-2=0/19, 2-3=-1733 4-5=-98/89, 5-6=-21	athing directly applie except end verticals, -0 max.): 4-5. applied or 7-8-11 oc 4-6 5=0-5-8 C 15) C 12), 6=-185 (LC 12 C 2), 6=-765 (LC 2) pression/Maximum 3/426, 3-4=-1019/302 6/99 e-577/1613, 6-8=-345	design. 5) This trus load of 1 overhan 6) Building requiren 7) Provide 8) This trus chord liv 9) * This trus chord liv 9) * This trus chord ar 10) Provide bearing 2 and 18 4, 11) This trus (899 R802.10 12) Graphica	ced snow loads s has been des 2.0 psf or 1.00 gs non-concurre Designer/Projee Rain Load = 5. ents specific to adequate draina s has been des e load nonconc iss has been des totom chord in a tall by 2-00-00 v d any other me mechanical con olate capable of 5 lb uplift at joir s is designed ir noal Residentia .2 and reference ientation of the	igned for great times flat roof I ent with other li ct engineer res 0 (psf) covers i the use of this age to prevent igned for a 10. urrent with any esigned for a liv all areas where wide will fit bety mbers. inection (by oth f withstanding 2 nt 6. n accordance w I Code sections ed standard Al entation does no	er of min roo pad of 7.7 ps ve loads. ponsible for ain loading truss compo water pondim 0 psf bottom other live loa e load of 20. a rectangle veen the bot ers) of truss 210 lb uplift a isth the 2018 is R502.11.1 i SI/TPI 1. bt depict the	f live onent. ig. ads. 0psf tom to t joint					
this design 2) Wind: AS(Vasd=103) II; Exp B; and C-C E 12-0-0, Ex 16-2-15 to exposed ; members Lumber D 3) TCLL: AS Plate DOL 1.15 Plate	ed roof live loads have n. CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; Bi Enclosed; MWFRS (er Exterior(2R) 12-0-0 to 16 terior(2R) 12-0-0 to 16 terior(2R) 12-0-0 to 16 to 19-2-0 zone; cantileve end vertical left and rig and forces & MWFRS OL=1.60 plate grip DC CE 7-16; Pr=20.0 psf (_=1.15); Pg=10.0 psf; F = DOL = 1.10; (s=1.0)	(3-second gust) CDL=3.0psf; h=25ft; ivelope) exterior zone -0-0, Interior (1) 2-0-0 -2-15, Interior (1) er left and right ght exposed;C-C for for reactions shown; iL=1.60 roof LL: Lum DOL=1 Yf=12.7 psf (Lum DOI Rough Cat B; Partiali	Cat. e 0 to .15 L =	nord. : (S) Standard						and the second second	SEA 0351	• •

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15; Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

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mm April 21,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	H7	Half Hip	1	1	Job Reference (optional)	T37059131

this design.

2)

3)

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

Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to

10-0-0, Exterior(2R) 10-0-0 to 14-6-2, Interior (1) 14-6-2

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially

Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

to 19-2-0 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

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:55 ID:r50gUAjyNJS5vL71Wm8scYzQTUk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

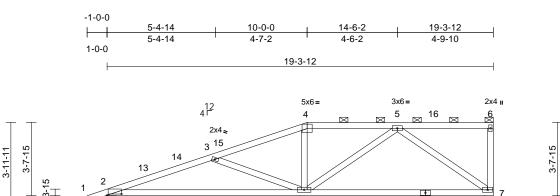
X

3x6=

8

3x6=

Page: 1



9

3x8=

	9-10-4	19-3-12
• • • • • • •	9-10-4	9-5-8
Scale = 1:57.6		
Plate Offsets (X, Y): [2:0-8-10,0-0-12]		

3x8=

	()												
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	0.48	Vert(LL)	-0.18	7-9	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15		BC	0.97	Vert(CT)	-0.36	7-9	>636	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.63	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018	3/TPI2014	Matrix-MS								
BCDL	10.0											Weight: 92 lb	FT = 20%
LUMBER			4)	Unbalanced	snow loads have	been cor	nsidered for t	his					
TOP CHORD	2x4 SP No.2		,	design.									
BOT CHORD	2x4 SP No.2		5)	This truss ha	as been designed	for great	er of min roo	f live					
WEBS	2x4 SP No.3			load of 12.0	psf or 1.00 times	flat roof le	oad of 7.7 ps	f on					
BRACING					on-concurrent wit								
TOP CHORD	Structural wood she	athing directly applie	ed or 6)		igner/Project eng								
		except end verticals,			n Load = 5.0 (psf)								
	2-0-0 oc purlins (5-3				s specific to the us								
BOT CHORD	Rigid ceiling directly	applied or 2-2-0 oc	7)		quate drainage to			g.					
	bracing.		8)		is been designed								
REACTIONS ((size) 2=0-5-8, 7	7=0-5-8			ad nonconcurrent								
ľ	Max Horiz 2=141 (LO	C 15)	9)		nas been designe			Upst					
	Max Uplift 2=-212 (L	,	2)		n chord in all area								
	Max Grav 2=828 (L0		,		by 2-00-00 wide w by other members		veen the bott	iom					
FORCES	(lb) - Maximum Corr	npression/Maximum	10		hanical connectio		ers) of truss	to					
	Tension		10		capable of withs								
TOP CHORD	1-2=0/19, 2-3=-1767	7/479, 3-4=-1281/349	Э,	01	uplift at joint 7.			,					
	4-5=-1159/350, 5-6=	=-84/63, 6-7=-121/59	11		designed in acco	rdance w	ith the 2018						
BOT CHORD	2-9=-620/1661, 7-9=	=-301/808		,	Residential Code			and					
WEBS	3-9=-530/248, 4-9=0	0/245, 5-9=-109/461,		R802.10.2 a	nd referenced sta	ndard AN	ISI/TPI 1.						
	5-7=-962/322		12) Graphical pu	Irlin representation	n does no	ot depict the	size			/		111.0
NOTES				or the orienta	ation of the purlin	along the	e top and/or					N'IL CA	5/1
1) Unbalance	d roof live loads have	been considered for		bottom chore	d.							WATH UP	10/1

LOAD CASE(S) Standard



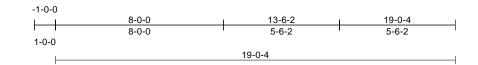
818 Soundside Road Edenton, NC 27932

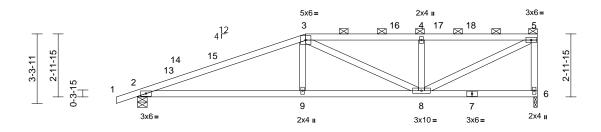
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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	H6	Half Hip	1	1	Job Reference (optional)	T37059132

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:55 ID:viuw4UhirhCNf1zfOL6OX7zQTUm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





		1		7-10-4	1		13-6-2	1		19-0-4			
Scale = 1:54.8		Г		7-10-4	I		5-7-14	1		5-6-2			
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 12.7/10.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code		8/TPI2014	CSI TC BC WB Matrix-MS	0.80 0.89 0.51	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.29 0.03	(loc) 9-12 9-12 6	l/defl >999 >774 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 REACTIONS	2x4 SP No.2 2x4 SP No.3 Structural wood she 2-2-0 oc purlins, ex 2-0-0 oc purlins (5-1 Rigid ceiling directly bracing. (size) 2=0-5-8, 6 Max Horiz 2=114 (LC Max Uplift 2=-211 (L Max Grav 2=817 (LC	athing directly appli cept end verticals, a -3 max.): 3-5. applied or 8-0-4 oc 6=0-2-0 C 15) C 12), 6=-179 (LC - C 2), 6=753 (LC 2)	and 7) 8) 9) 12)	design. This truss ha load of 12.0 overhangs n Building Des verifying Rai requirements Provide adeo This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b	snow loads hav s been designe psf or 1.00 time: on-concurrent w igner/Project en n Load = 5.0 (ps s specific to the quate drainage t s been designe ad nonconcurrer has been design n chord in all ar by 2-00-00 wide by other membe	d for great s flat roof lo vith other lin gineer res sf) covers r use of this o prevent v d for a 10.0 nt with any ed for a liv eas where will fit betw	er of min roof pad of 7.7 ps ve loads. ponsible for ain loading truss compo water pondin) ps bottom other live load e load of 20. a rectangle	f live f on nent. g. ads. 0psf					
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=0/19, 2-3=-1525	5/415, 3-4=-1132/35	_	bearing plate	hanical connect at joint(s) 6. hanical connect		,						
BOT CHORD WEBS	4-5=-1132/355, 5-6= 2-9=-467/1398, 8-9= 3-9=0/305, 3-8=-346 5-8=-334/1228	-468/1388, 6-8=-43	8/60	bearing plate 6 and 211 lb) This truss is	e capable of with uplift at joint 2. designed in acc Residential Coo	ordance w	79 lb uplift at	t joint					
NOTES	0 0 00 1/ 1220				nd referenced st								
1) Unbalance	ed roof live loads have	been considered for	or 13		rlin representati ation of the purli			size				NY CA	DALL
Vasd=103 II; Exp B; I and C-C E 8-0-0, Extr to 18-10-8 vertical lef forces & M DOL=1.60 3) TCLL: ASC Plate DOL 1.15 Plate	A. CE 7-16; Vult=130mph mph; TCDL=6.0psf; Bi Enclosed; MWFRS (er Exterior(2E) -1-0-0 to 2 erior(2R) 8-0-0 to 12-2 zone; cantilever left a t and right exposed;C- WFRS for reactions s plate grip DOL=1.60 CE 7-16; Pr=20.0 psf (_=1.15); Pg=10.0 psf; f DOL = 1.15); Is=1.0; I 1.0; Cs=1.00; Ct=1.10	CDL=3.0psf; h=25ft velope) exterior zoi -0-0, Interior (1) 2-0 -15, Interior (1) 12-2 nd right exposed ; e C for members and hown; Lumber roof LL: Lum DOL= 2f=12.7 psf (Lum DC Rough Cat B; Partia	1.15 DL =	DAD CASE(S)	i	n along the	top ana/of				in the second second	SEA 0351	EEP.

- 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior (1) 12-2-15 to 18-10-8 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 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
- 3) Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

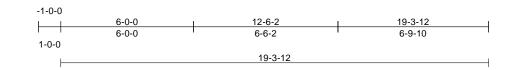
April 21,2025

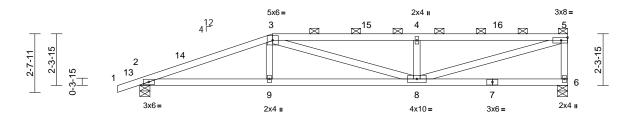
S mm

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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	H5	Half Hip	1	1	Job Reference (optional)	T37059133

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:55 ID:RWKXs8g34O4W2tOSqdb9?vzQTUn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





		1	5-1	0-4	1	12-6-2		1		19-3-12		I	
Scale = 1:52			5-1	0-4		6-7-14				6-9-10			
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d		GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.61	Vert(LL)	-0.09	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15		BC	0.66	Vert(CT)	-0.20	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.44	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018	/TPI2014	Matrix-MS								
BCDL	10.0											Weight: 87 lb	FT = 20%
LUMBER			4)	Unbalanced	snow loads ha	ave been co	nsidered for t	this					
TOP CHORD	2x4 SP No.2		,	design.									
BOT CHORD			5)	This truss ha	as been desigr	ned for great	er of min roo	of live					
WEBS	2x4 SP No.3 *Except	ot* 8-3,8-5:2x4 SP N	0.2	load of 12.0	psf or 1.00 tim	es flat roof l	oad of 7.7 ps	sf on					
BRACING				overhangs n	on-concurrent	with other li	ve loads.						
TOP CHORD	Structural wood she	athing directly appli	ed or 6)	Building Des	igner/Project e	engineer res	ponsible for						
	3-8-14 oc purlins, e				n Load = 5.0 (
	2-0-0 oc purlins (3-7				s specific to th								
BOT CHORD					quate drainage								
	bracing.		8)		as been desigr								
REACTIONS	(size) 2=0-5-8,	6=0-5-8			ad nonconcurr								
	Max Horiz 2=88 (LC		9)		nas been desig			.0psf					
	Max Uplift 2=-215 (L	_C 12), 6=-180 (LC 1	2)		m chord in all a by 2-00-00 wid			tom					
	Max Grav 2=828 (L		,		ny other memb		veen the bot	lom					
FORCES	(lb) - Maximum Con		10)		hanical conne		ore) of truce	to					
	Tension	ipi ocolori, maximani	10)		e capable of w								
TOP CHORD		2/479. 3-4=-1773/49	6.	01	uplift at joint 2	0		u joint					
	4-5=-1773/496, 5-6=				designed in a		ith the 2018						
BOT CHORD					Residential C			and					
WEBS	3-9=0/263, 3-8=-86/	/312, 4-8=-446/190,			nd referenced			ana					
	5-8=-464/1774		12)		Irlin representa			size					
NOTES			,		ation of the pu							<u> </u>	
	ed roof live loads have	been considered fo	r	bottom chore		0							1. AL
this design				AD CASE(S)	Standard							WKW CA	Bally
	CE 7-16; Vult=130mph	n (3-second gust)		(-)							1	A LAN	· A Maria
	Bmph; TCDL=6.0psf; B		Cat.									VYHP	Direct
	Enclosed; MWFRS (er										32	- Marrin	A.Y.
and C-C E	Exterior(2E) -1-0-0 to 2	-0-0, Interior (1) 2-0	-0 to							1		: X	K
6-0-0, Exte	erior(2R) 6-0-0 to 10-2	2-15, Interior (1) 10-2	2-15									SEA	1 1 1
	zone; cantilever left an		d							=	:	J SEP	• •
	ft and right exposed;C-									=		0351	83 : =
	/WFRS for reactions s	shown; Lumber								-	A A A A A A A A A A A A A A A A A A A		1 2
) plate grip DOL=1.60										-		1.5
	CE 7-16; Pr=20.0 psf (-	· ENG	-ER. S
	_=1.15); Pg=10.0 psf; I										11	GIN	Et.
	DOL = 1.15); Is=1.0;		пу								1	1. 11 11.	IEF.IN
Exp.; Ce=	1.0; Cs=1.00; Ct=1.10	, ∟u=50-0-0										11,405	Luin
												111.	

- I; MWFRS (envelo and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior (1) 10-2-15 to 19-2-0 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); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

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April 21,2025

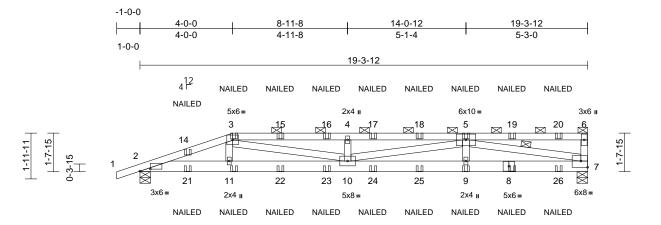
Page: 1



mm

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	H4	Half Hip Girder	1	1	Job Reference (optional)	T37059134

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:54 ID:z8MRMEHRJINQ1ZD3m7Ut0SzQTU?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



			3-10-4	I	8-11-8	1	14-0-12	2	1	19	9-3-12		
0			3-10-4		5-1-4	I	5-1-4		I	5	5-3-0	1	
Scale = 1:49.7													
Plate Offsets ((X, Y): [2:0-5-6,0-1-1]	, [7:Edge,0-3-4]											
Loading TCLL (roof) Snow (Pf/Pg) TCDL	(psf) 20.0 12.7/10.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO		CSI TC BC WB	0.83 0.88 0.74	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.46 0.06	(loc) 9-10 9-10 7	l/defl >999 >502 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0* 10.0	Code	IRC2018/	TPI2014	Matrix-MS							Weight: 103 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES	2x4 SP No.2 *Excep 2x6 SP No.2 2x4 SP No.3 Structural wood she 3-3-6 oc purlins, ex 2-0-0 oc purlins (2-5 Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-5-8, Max Horiz 2=59 (LC Max Uplift 2=-314 (L Max Grav 2=1132 (I (lb) - Maximum Com Tension	eathing directly appli (cept end verticals, a 5-6 max.): 3-6. / applied or 7-10-8 c 5-7 7=0-5-8 :9) _C 8), 7=-293 (LC 8) _LC 2), 7=1102 (LC 2) npression/Maximum	5) and 6) and 7) and 9) 9) 2) 10)	design. This truss ha load of 12.0 overhangs n Building Des verifying Ra requirement Provide ade This truss ha chord live lo * This truss on the botto 3-06-00 tall chord and a Provide med bearing plat 7 and 314 lb	snow loads have as been designed psf or 1.00 times ion-concurrent wii signer/Project eng in Load = 5.0 (psf s specific to the u quate drainage to as been designed ad nonconcurrent has been designed m chord in all are by 2-00-00 wide v ny other members chanical connectio e capable of withs uplift at joint 2.	I for great flat roof I th other Ii jineer res j covers I se of this prevent for a 10. t with any d for a I line as where will fit betw s. on (by oth standing 2	er of min roo pad of 7.7 ps ve loads. ponsible for ain loading truss compo water pondin 0 psf bottom other live loa e load of 20. a rectangle veen the bott ers) of truss 293 lb uplift a	f live f on nent. g. ads. 0psf om to		9=-30 (l 17=-40 21=-60	F), 14= (F), 18 (F), 22), 11=-30 (F), 3=- -22 (F), 15=-40 (F), 19=-40 =-30 (F), 23=-30 =-32 (F)	45 (F), 5=-40 (F), F), 16=-40 (F), (F), 20=-40 (F),
TOP CHORD BOT CHORD WEBS	4-5=-4028/1077, 5-6	6=-192/67, 6-7=-199 -11=-722/2750, 9=-866/3245 =-361/1359,	9/80 12)	International R802.10.2 a Graphical pu	designed in acco I Residential Code nd referenced sta urlin representation ation of the purlin d.	e sections andard AN on does n	R502.11.1 a SI/TPI 1. ot depict the				•	D'TH CA	BOITHA
 this design Wind: ASC Vasd=103 II; Exp B; cantilever right expo TCLL: AS Plate DOL 1.15 Plate 	5-7=-3149/831 ed roof live loads have n. CE 7-16; Vult=130mph mph; TCDL=6.0psf; B Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 CE 7-16; Pr=20.0 psf (L=1.15); Pg=10.0 psf; I 9 DOL = 1.15); Is=1.0; 1.0; Cs=1.00; Ct=1.10	n (3-second gust) iCDL=3.0psf; h=25ft nvelope) exterior zo ; end vertical left ar 50 plate grip DOL=1: (roof LL: Lum DOL= Pf=12.7 psf (Lum D Rough Cat B; Partia	r 14) LOA ; Cat. 1) ne; nd .60 1.15 DL =	(0.148"x3.25 In the LOAD of the truss a AD CASE(S) Dead + Sn Increase=1 Uniform Lo Vert: 1-3	ow (balanced): Lu .15	IDS guidli n, loads a t (F) or ba umber Inc	nes. pplied to the ck (B).			. ANTHONY		SEA 0351	ER.

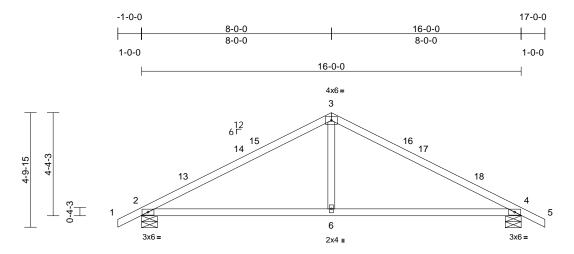
April 21,2025

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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	A1	Common	2	1	Job Reference (optional)	T37059135

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:48 ID:YUZbSyQu1xRV0eIQ6jjEeUzQTV6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



			1		8-0-0		1	1	6-0-0			1	
Scale = 1:48.6			I		8-0-0				8-0-0				
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 7.7/10.0 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-MS	0.93 0.76 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.26 0.01	(loc) 6-12 6-12 4	l/defl >999 >744 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 60 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.3 Structural wood she Rigid ceiling directly bracing. (size) 2=0-8-0, Max Horiz 2=-71 (LC Max Uplift 2=-130 (L Max Grav 2=700 (L0 (lb) - Maximum Com Tension 1-2=0/27, 2-3=-920/ 4-5=0/27 2-6=-119/738, 4-6=-	C 17) C 16), 4=-130 (LC 17 C 2), 4=700 (LC 2) pression/Maximum 279, 3-4=-920/279,	6) 1. 7) 8)) 9) 10)	load of 12.0 overhangs Building De verifying Ra requiremen This truss F chord live k * This truss on the botto 3-06-00 tall chord and a Provide me bearing pla 2 and 130 l This truss is Internationa	has been design o psf or 1.00 tim non-concurrent esigner/Project e ain Load = 5.0 (its specific to th- nas been design bad nonconcurr has been design or chord in all a by 2-00-00 wid any other memb chanical conne te capable of wi b uplift at joint 4 s designed in ac al Residential C and referenced	les flat roof la with other li- engineer resp psf) covers r e use of this ned for a 10.1 ent with any gned for a liv areas where le will fit betw bers. ction (by oth ithstanding 1 L. ccordance w ode sections	bad of 7.7 ps ve loads. ponsible for ain loading truss compc 0 psf bottom other live loa or load of 20. a rectangle veen the bott ers) of truss 30 lb uplift a ith the 2018 5 R502.11.1 a	onent. ads. .0psf tom to ti joint					
WEBS NOTES	3-6=-5/382		LOA	D CASE(S) Standard								
 this design Wind: ASC Vasd=103 II; Exp B; I and C-C E 8-0-0, Extr 17-0-0 zor vertical lef forces & M DOL=1.60 TCLL: ASC Plate DOL 1.15 Plate Exp.; Ce= 	ed roof live loads have CE 7-16; Vult=130mph imph; TCDL=6.0psf; B Enclosed; MWFRS (er Exterior(2E) -1-0-0 to 2 erior(2R) 8-0-0 to 11-0 he; cantilever left and nt t and right exposed;C- WFRS for reactions s plate grip DOL=1.60 CE 7-16; Pr=20.0 psf (DOL = 1.15); ls=1.0; 1.0; Cs=1.00; Ct=1.10 ed snow loads have be	 (3-second gust) CDL=3.0psf; h=25ft; (1) CDL=0.0psf; h=25ft; (2) CDL=0.0psf; h=25ft; (2) CO-0, Interior (1) 2-0-0 Interior (1) 2-0 Interior (1) 2-0<td>e to to 15 = /</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>in the second</td><td>SEA 0351</td><td>83 EER.</td>	e to to 15 = /								in the second	SEA 0351	83 EER.

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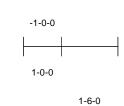
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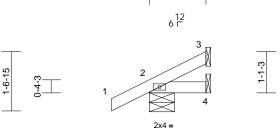
Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J4	Jack-Open	4	1	Job Reference (optional)	T37059136

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:59 ID:Vd1YCzv4DiWmm3p_YToTxozPY82-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-6-0

1-6-0







Scale = 1:30.5

Scale = 1.50.5													
Loading	(psf)	Spacing	2-0-0	C	SI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	T	2	0.07	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	B		0.02	Vert(CT)	0.00	7	>999	180		
CDL	10.0	Rep Stress Incr	YES	W	В	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/1	PI2014 M	atrix-MP								
BCDL	10.0											Weight: 7 lb	FT = 20%
UMBER			6)	This truss has be	een designed f	for a 10.0) psf bottom						
TOP CHORD	2x4 SP No.2			chord live load n									
BOT CHORD	2x4 SP No.2			This truss has				0psf					
RACING				on the bottom ch									
OP CHORD	Structural wood she	athing directly appli		3-06-00 tall by 2			veen the botto	om					
	1-6-0 oc purlins.			chord and any o									
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o		Refer to girder(s									
	bracing.			Provide mechan									
REACTIONS	(size) 2=0-8-0, 3	B= Mechanical, 4=		pearing plate cap 2 and 14 lb uplift		anding a	5 ib upilit at j	oint					
	Mechanic			This truss is des		dance w	ith the 2018						
	Max Horiz 2=43 (LC		<i>'</i>	nternational Res				and					
	Max Uplift 2=-35 (LC) .	R802.10.2 and r									
	Max Grav 2=140 (LC	C 2), 3=27 (LC 2), 4	=23	D CASE(S) SI		i ddi d 7 ll							
	(LC 7)			D GAGE(C) O	andara								
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/27, 2-3=-38/1	5											
BOT CHORD	2-4=-15/21	5											
NOTES	2 1- 10/21												
	CE 7-16; Vult=130mph	(3-second qust)											
	mph; TCDL=6.0psf; B		: Cat.										
	Enclosed; MWFRS (er												\wedge
	Exterior(2E) zone; cant												1111
exposed ;	end vertical left and rig	ght exposed;C-C for	r								· · 6	DITH UA	Bally
	and forces & MWFRS		1;								F	KAY A	SHAM -
	OL=1.60 plate grip DO										5	HUMAN	OKIN
	CE 7-16; Pr=20.0 psf (57		7: 1 -
	.=1.15); Pg=10.0 psf; F									-	: ()	·Q.	S 1 2
	DOL = 1.15); Is=1.0; I		lly									SEA	AI : =
	1.0; Cs=1.00; Ct=1.10		L.1.								· V		• -
,	ed snow loads have be	en considered for ti	nis							=		0351	.83 -
design.	has been designed for	r greater of min roof	livo							E	3		
	.0 psf or 1.00 times flat										1	·	1 1 E
	s non-concurrent with c										1	· SNOW	EEH.
	esigner/Project engine										11	GIN	Frid N
	Rain Load = 5.0 (psf) c										1	ULIUS	IEFIN
	tain Load = 5.0 (p3i) to		nont									1,5105	

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

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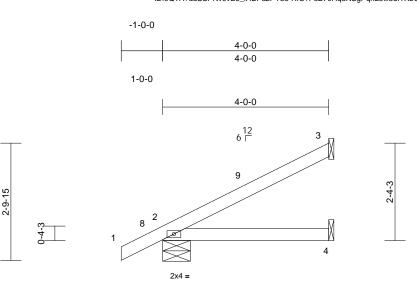
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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J3	Jack-Open	5	1	Job Reference (optional)	T37059137

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:59 ID:0QTA?duSSPNv9vEo_IHEPazPY83-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





4-0-0

Scale = 1:27.8

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.20	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15		BC	0.16	Vert(CT)	-0.02	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018	8/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 14 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 Structural wood she	athing directly applie	5) 6) d or 7)	verifying Rai requirements This truss ha chord live loa	igner/Project en n Load = 5.0 (p s specific to the is been designed ad nonconcurren nas been design	sf) covers r use of this ed for a 10.0 ent with any	ain loading truss compo 0 psf bottom other live loa	ads.					
BOT CHORD	4-0-0 oc purlins. Rigid ceiling directly bracing.	applied or 10-0-0 oc	,	on the bottor 3-06-00 tall b	n chord in all a by 2-00-00 wide	reas where e will fit betv	a rectangle	•					
	(size) 2=0-8-0, 3 Mechanic Max Horiz 2=88 (LC Max Uplift 2=-41 (LC (LC 16) Max Grav 2=225 (LC (LC 7)	16) 5 16), 3=-51 (LC 16),	10	Refer to gird Provide mec bearing plate 3, 41 lb uplifi) This truss is International	ny other member er(s) for truss thanical connect capable of witt at joint 2 and ² designed in acc Residential Cond referenced s	to truss con tion (by oth hstanding 5 1 lb uplift at cordance w de sections	ers) of truss 51 lb uplift at joint 4. ith the 2018 \$ R502.11.1 a	joint					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	LC	DAD CASE(S)			NOI/1111.						
TOP CHORD	1-2=0/27, 2-3=-66/3	8											
BOT CHORD	2-4=-41/61												
NOTES													

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.

SEAL 035183

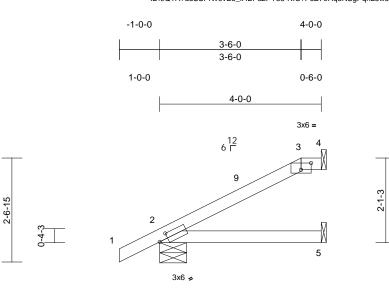
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Job	Truss	Truss Type	Qty Ply 1053 Serentity		1053 Serentity	
P02050-24644	J2	Jack-Open	2	1	Job Reference (optional)	T37059138

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:59 ID:0QTA?duSSPNv9vEo_IHEPazPY83-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



4-0-0

Scale = 1:28.5

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

Loading	(psf)	Spacing	2-0-0		CSI	0.05	DEFL	in	(loc)	l/defl	L/d		GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.62	Vert(LL)	0.08	5-8	>618	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15		BC	0.89	Vert(CT)	-0.10	5-8	>491	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.26	4	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MP								
BCDL	10.0					-						Weight: 14 lb	FT = 20%
LUMBER			4) Unbalanced	snow loads have	been cor	nsidered for t	this					
OP CHORD	2x4 SP No.2		-	design.									
BOT CHORD	2x4 SP No.2		5		as been designed	for great	er of min root	f live					
BRACING				load of 12.0	psf or 1.00 times	flat roof l	bad of 7.7 ps	sf on					
OP CHORD	Structural wood shea	athing directly appli	ied or	overhangs n	ion-concurrent wit	th other liv	ve loads.						
0. 00.12	4-0-0 oc purlins, exc		6	6) Building Designer/Project engineer responsible for									
	2-0-0 oc purlins: 3-4				in Load = 5.0 (psf)								
BOT CHORD	Rigid ceiling directly		с	requirements specific to the use of this truss component.									
	bracing.		7		quate drainage to								
REACTIONS	(size) 2=0-8-0. 4	1= Mechanical, 5=	8		as been designed								
	Mechanic	,			ad nonconcurrent								
	Max Horiz 2=81 (LC	16)	9		has been designe			.0pst					
	Max Uplift 2=-44 (LC	,	5=-40		m chord in all area		0						
	(LC 16)	,, , , ,,			by 2-00-00 wide w		veen the bott	tom					
	Max Grav 2=236 (LC	C 38), 4=14 (LC 37)	, ,		ny other members ler(s) for truss to t		tion -						
	5=137 (LC	C 2)						4.0					
ORCES	(lb) - Maximum Com	pression/Maximum	1		chanical connectio e capable of withs								
	Tension				t joint 2 and 40 lb			Jint 4,					
OP CHORD	1-2=0/28, 2-3=-151/8	89, 3-4=0/0	1		designed in acco								
BOT CHORD	2-5=-49/81		1.		Residential Code			and					
NOTES					ind referenced sta								11.
	ed roof live loads have	been considered fo	or 1:		urlin representation			size				11 CA	111
this design					ation of the purlin			0.20				N'LKH CA	ROUL
0	CE 7-16; Vult=130mph	(3-second gust)		bottom chore		g					N	HAN HAN	IN. HIAL.
	2mph: TCDI =6 0pef: B(~ ~	LANLY MAY	HO IN TA

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 3-6-0, Exterior(2E) 3-6-0 to 3-11-4 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

LOAD CASE(S) Standard



April 21,2025



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Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	J1	Jack-Open Girder	2	1	Job Reference (optional)	T37059139

1-6-0

1-6-0

6 F

3x6 =

4-0-0 2-6-0

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NAILED

1-1-3

4-0-0

NAILED

3x6 =3

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10

NAILED

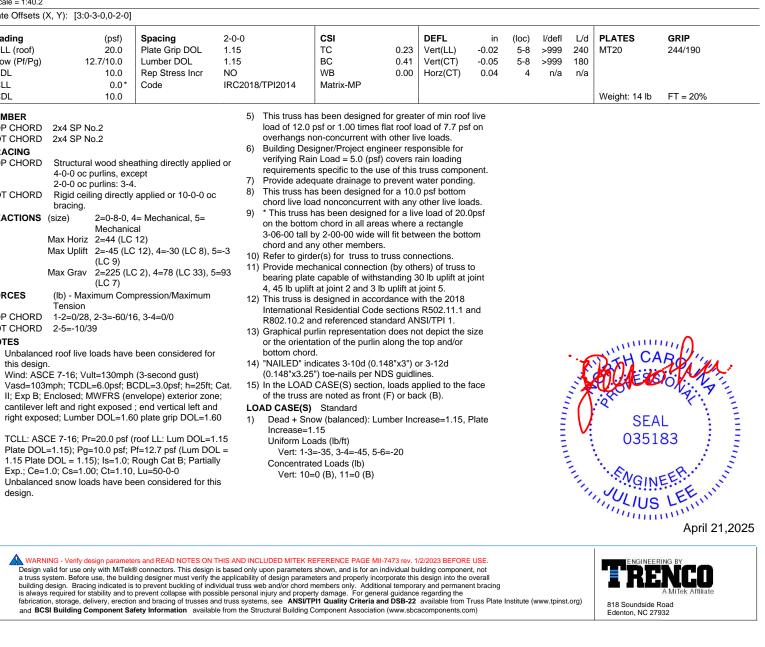
4-0-0

-1-0-0

1-0-0

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:58 ID:NOG32KybGx0CFg6InJtP6ezPY8_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



2x4 SP No 2

2x4 SP No.2

bracing.

Max Grav

Tension

2-5=-10/39

(LC 9)

(LC 7)

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

Scale = 1:40.2

Loading

TCDL

BCLL

BCDL

LUMBER

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

NOTES

1)

2)

3)

4)

desian.

TOP CHORD

BOT CHORD

this design

REACTIONS (size)

TCLL (roof)

Snow (Pf/Pg)

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	H2	Нір	1	1	Job Reference (optional)	T37059140

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 11:33:54 ID:0QTA?duSSPNv9vEo_IHEPazPY83-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1

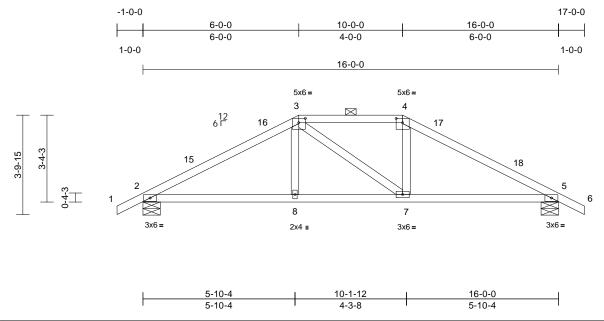


Plate Offsets (X, Y): [3:0-3-0,0-2-0], [4:0-3-0,0-2-0]

Scale = 1:44.4

	(, .). [[1							1	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.51	Vert(LL)	0.05	8-11	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15		BC	0.50	Vert(CT)	-0.10	8-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.08	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0*	Code	IRC20	18/TPI2014	Matrix-MS								
BCDL	10.0											Weight: 69 lb	FT = 20%
LUMBER			2) Unbalanced	snow loads have	been co	nsidered for t	this					
TOP CHORD	2x4 SP No.2			design.									
BOT CHORD	2x4 SP No.2		5		as been designed								
WEBS	2x4 SP No.3				psf or 1.00 times			sf on					
BRACING					ion-concurrent wit								
TOP CHORD	Structural wood she	athing directly applie	ed or ⁶		signer/Project eng								
	5-0-10 oc purlins, ex				in Load = 5.0 (psf								
	2-0-0 oc purlins (6-0	-0 max.): 3-4.	-		s specific to the u								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C		quate drainage to								
	bracing.		ξ		as been designed								
REACTIONS	(size) 2=0-8-0, 5	5=0-8-0			ad nonconcurrent has been designe								
	Max Horiz 2=-56 (LC	2 17)			m chord in all area			opsi					
	Max Uplift 2=-115 (L	.C 16), 5=-115 (LC 1	17)		by 2-00-00 wide v			tom					
	Max Grav 2=700 (LC	C 2), 5=700 (LC 2)			ny other members		ween the bott	lonn					
FORCES	(lb) - Maximum Com	pression/Maximum	1		chanical connection		ers) of truss	to					
	Tension				e capable of withs								
TOP CHORD	1-2=0/28, 2-3=-1001	/269, 3-4=-824/289),		uplift at joint 5.	5							
	4-5=-1001/272, 5-6=	=0/28	1		designed in acco	ordance w	ith the 2018						
BOT CHORD	2-8=-151/830, 7-8=-	151/824, 5-7=-156/8			Residential Code			and					
WEBS	3-8=0/213, 3-7=-107	7/108, 4-7=-4/213		R802.10.2 a	ind referenced sta	andard Al	NSI/TPI 1.						
NOTES			1	2) Graphical p	urlin representatio	n does n	ot depict the	size					1111
1) Unbalance	ed roof live loads have	been considered fo	or	or the orient	ation of the purlin	along the	e top and/or					NEI CI	10/11
, this desig	n.			bottom chor	d.							North Or	TO MAN
2) Wind: AS	CE 7-16; Vult=130mph	(3-second gust)	L	OAD CASE(S)	Standard						5	O / Allas	MANA SA
Vasd=103	Bmph; TCDL=6.0psf; B	CDL=3.0psf; h=25ft;	; Cat.								22	SACON	Denne -
	Enclosed; MWFRS (er										-		1. 3
	Exterior(2E) -1-0-0 to 2									- 2			
	terior(2E) 6-0-0 to 10-0									_		SEA	∖L : :
	5, Interior (1) 14-2-15 to		lever							=	8 :	0251	02 : =
	ght exposed ; end verti											0351	00 : 2
	C-C for members and f		r										1 N S
	shown; Lumber DOL=	1.60 plate grip									-	·	a: 3
DOL=1.60			4 45								2	NGIN	FER
	CE 7-16; Pr=20.0 psf (and the second	JU	THE N
	L=1.15);										1	1, ULIIG	LETIN
	POUL = 1.15; IS=1.0; I		uiy									111100	and the second s

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

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818 Soundside Road Edenton, NC 27932

mm

April 21,2025

Job	Truss	Truss Type	Qty	Ply	1053 Serentity	
P02050-24644	H1	Hip Girder	1	1	Job Reference (optional)	T37059141

Scale = 1:45.2

Loading

TCDL

BCLL

BCDL

WEBS

BRACING

LUMBER

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

1)

2)

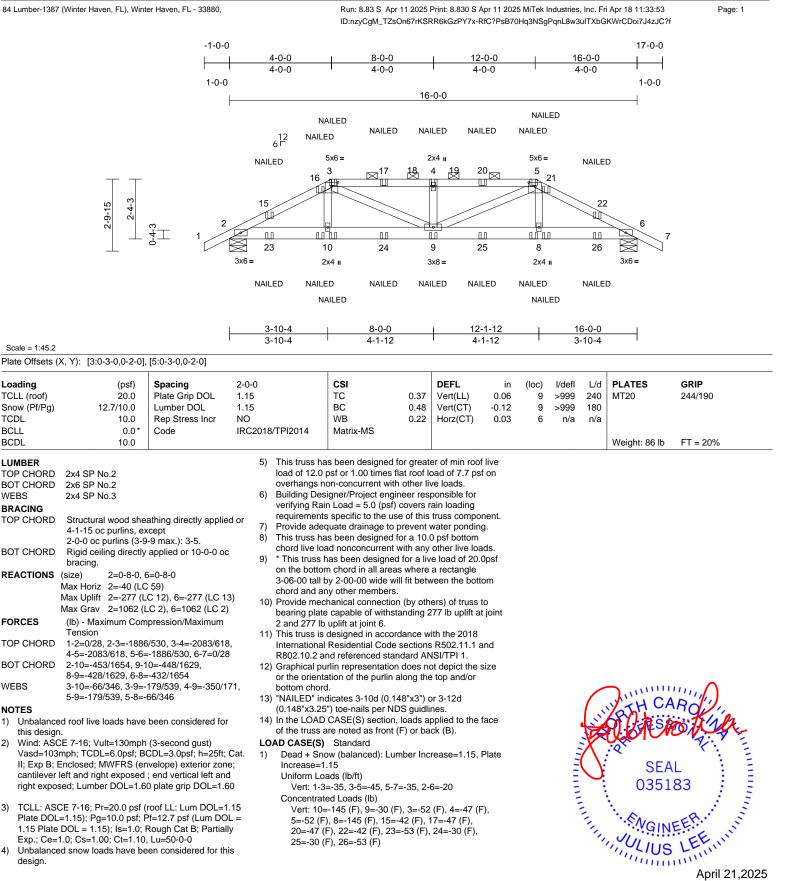
3)

4)

design.

TCLL (roof)

Snow (Pf/Pg)



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Edenton, NC 27932

