

RE: 1224-054 with attic - Holloway

Site Information:

Customer Info: LDM Project Name: . Model: . Lot/Block: . Address: ., . City: Lake City State: FL

Subdivision: .

Name Address and License # of Structural Engineer of Record, If there is one, for the building. Name: License #: Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2023/TPI2014 Wind Code: ASCE 7-22 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.7 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 73 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date No	o. Seal#	Truss Name	Date
No. 1234567891011213	Seal# T36050240 T36050241 T36050242 T36050243 T36050244 T36050246 T36050246 T36050247 T36050248 T36050249 T36050250 T36050252	Iruss Name A01 A02 A03 A04 A05 A06 A07 A08 A09 A10 A11 A12 A13	Date No 1/14/25 23 1/14/25 24 1/14/25 25 1/14/25 25 1/14/25 27 1/14/25 28 1/14/25 29 1/14/25 30 1/14/25 31 1/14/25 32 1/14/25 32 1/14/25 35	 Seal# T36050262 T36050263 T36050264 T36050265 T36050266 T36050267 T36050268 T36050269 T36050270 T36050271 T36050271 T36050273 T36050274 	Truss Name C03 C04 C05 C06 C07 C08 CJ01 CJ02 D01 D02 D03 D04 D05	Date 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25
13 14 15 17 18 20 21 22	T36050252 T36050253 T36050254 T36050255 T36050256 T36050256 T36050258 T36050258 T36050259 T36050260 T36050261	A13 A14 B01 B02 B03 B04 B05 B06 C01 C02	1/14/25 35 1/14/25 36 1/14/25 37 1/14/25 38 1/14/25 39 1/14/25 49 1/14/25 42 1/14/25 42 1/14/25 43 1/14/25 44	T36050274 T36050275 T36050276 T36050277 T36050278 T36050279 T36050280 T36050281 T36050282 T36050283	D05 E01 E02 E03 F01 F02 F03 F04 F05 G01	1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2025.

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.



January 14,2025

MiTek, Inc. 16023 Swinalev Ridae Rd. Chesterfield, MO 63017 314.434.1200



RE: 1224-054 with attic - Holloway

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer Info: LDN	Project Name: .	Model: .
Lot/Block: .		Subdivision
Address: ., .		
City: Lake City		State: FL

.

No.	Seal#	Truss Name	Date
N0. 446789012345678901234567890123465	Seal# T36050284 T36050285 T36050286 T36050287 T36050288 T36050290 T36050290 T36050291 T36050292 T36050293 T36050293 T36050295 T36050296 T36050296 T36050299 T36050299 T36050290 T36050290 T36050301 T36050301 T36050303 T36050303	Truss Name G02 G03 G04 G05 J01 J01 J02 J03 J04 J05 J06 J07 J08 J09 J10 J11 J12 J16 J18 M01 M02	Date 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25 1/14/25
65 66 67	T36050304 T36050305 T36050306	M02 M03 M04	1/14/25 1/14/25 1/14/25
68 69 70 71 72	T36050307 T36050308 T36050309 T36050310 T36050311	PB01X PB02 PB03 PB04 PB05	1/14/25 1/14/25 1/14/25 1/14/25 1/14/25
73	T36050312	PBŎĞ	1/14/25



[4:0-5-7,0-2-7], [6:0-3-4,0-2-0], [13:0-5-0,0-3-0], [20:0-4-0,0-4-8], [26:0-3-4,0-2-0], [27:0-6-8,0-3-0], [30:Edge,0-4-0], [31:0-3-8,0-4-12], [33:0-4-0,0-4-8], Plate Offsets (X, Y): [35:0-2-12,0-4-8]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc) l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.44	Vert(LL)	0.14	34-3	5 >999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25		BC	0.84	Vert(CT)	-0.22	34-3	5 >999	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.67	Horz(CT)	0.07	3) n/a	n/a		
BCDL	10.0	Code	FBC20	23/TPI2014	Matrix-MS							Weight: 765 lb	FT = 20%
LUMBER			В	OT CHORD	2-36=-1122/4584,	34-36=-	1378/5582,		5) T	russ desig	ned fo	or wind loads in th	e plane of the truss
TOP CHORD	2x4 SP No.2 *Excep	ot* 4-20,27-29,20-27	:2x6		32-34=-1293/5222	, 31-32=	-939/3730,		, 0	nly. For s	tuds e	xposed to wind (n	ormal to the face),
	SP No.2				30-31=-542/2059				S	ee Standa	rd Ind	ustry Gable End I	Details as applicable,
BOT CHORD	2x6 SP No.2		V	VEBS	3-36=-459/222, 3-3	85=-211	/392,		0	r consult c	Jualifie	d building design	er as per ANSI/TPI 1.
WEBS	2x4 SP No.2				4-35=-868/3322, 1	3-35=-1	481/361,		6) E	uilding De	signer	/ Project enginee	er responsible for
OTHERS	2x4 SP No.2				13-34=-294/1029,	20-34=-	139/587,		v	erifying ap	plied r	oof live load show	wn covers rain loading
WEDGE	Left: 2x6 SP No.2				20-33=-631/130, 2	7-33=-6	20/2520,		re	equiremen	ts spe	cific to the use of	this truss component.
BRACING					27-32=-300/1163,	27-31=-	3789/939,		7) F	rovide ade	equate	drainage to prev	ent water ponding.
TOP CHORD	Structural wood she	athing directly applie	ed or		28-31=-1051/4066	, 28-30=	-4993/1256,		8) A	II plates a	re 2x4	MT20 unless oth	erwise indicated.
	4-9-7 oc purlins, ex	cept end verticals.			6-7=-199/802, 25-2	26=-161	/650,		9) 🤆	able stud	s spac	ed at 2-0-0 oc.	
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	с		23-24=-141/34, 21	-22=-11	1/46,		10) T	his truss h	as be	en designed for a	10.0 psf bottom
	bracing.				18-19=-133/40, 16	-1/=-/3	/23,	1/40	C	hord live lo	bad no	nconcurrent with	any other live loads.
WEBS	1 Row at midpt	29-30, 27-31, 28-30)		14-15=-140/32, 10	-11=-13	9/32, 8-9=-18	34/43,	11) ^	I his truss	has b	een designed for	a live load of 20.0pst
JOINTS	1 Brace at Jt(s): 13,				12-13=-91/07				0			ord in all areas wr	iere a rectangle
	20, 23, 16, 10, 9		N	IOTES					3	-06-00 tall	Dy 2-0	or mombors with	perween the bollom
REACTIONS	(size) 2=0-3-8, 3	30= Mechanical	1) 2-ply truss t	o be connected tog	ether wi	th 10d		12) E		111y Uli 10 2661	med to be: loint	2 SP No 2
	Max Horiz 2=301 (LC	C 7)		(0.131°X3°)	nalis as follows:		4		12) 0	ofor to air	dor(e)	for truce to truce	2 OF NO.2 .
	Max Uplift 2=-1035 (LC 8), 30=-1208 (LC	C 8)		connected as follow	VS: 2X4 ·	- 1 fow at 0-9	-0	14) F	rovide me	chanic	al connection (by	others) of truss to
	Max Grav 2=4558 (L	_C 13), 30=4851 (LC	C 13)	Bottom cho	ows slaggered at 0	-9-0 0C.	ve 2 rowe		, h	earing pla	te can	able of withstandi	ing 208 Ib unlift at
FORCES	(lb) - Maximum Com	pression/Maximum		staggered a		110w5. Z	x0 - 2 10w5		ic	oint 30 and	1035	Ib uplift at joint 2	ing ingo is opplitedt
	Tension			Web conner	ted as follows: 2x4	- 1 row	at 0-9-0 oc		,-		5		SF.
TOP CHORD	1-2=0/77, 2-3=-5929	0/1378, 3-4=-6093/1	569, 2) All loads are	considered equal	v annlie	d to all plies				5	1	
	4-5=-4610/1227, 5-7	7=-3768/1030,	-	except if no	ted as front (F) or b	ack (B)	face in the I (DAD				No 34	869
	7-9=-3691/1010, 9-1	0=-3691/1010,		CASE(S) se	ction. Ply to ply co	nection	s have been				*		1 * =
	10-13=-3691/1010, ⁻	13-15=-4559/1236,		provided to	distribute only load	s noted	as (F) or (B).						
	15-16=-4559/1236,	16-18=-4559/1236,		unless othe	rwise indicated.		() ()				10:		
	18-22=-4559/1236, 2	22-23=-4214/1154,	3) Unbalanced	roof live loads hav	e been o	considered fo	or			D		KARAL : WE
	23-25=-4214/1154, 2	25-27=-4267/1167,		this design.							:0	AUNA	415
	27-28=-2093/599, 28	8-29=-97/84,	4) Wind: ASCE	E 7-22; Vult=130mp	h (3-sec	cond gust)				21	N. 51	0 P. 25
	29-30=-60/36, 3-6=-	1195/301, 6-8=-982	/204,	Vasd=101m	ph; TCDL=6.0psf;	BCDL=6	6.0psf; h=15ft	;			11,	COLOR.	GA
	0-11=-902/204, 11-1	2=-902/204, 17075/263		B=45ft; L=3	8ft; eave=5ft; Cat. I	I; Exp B	; Enclosed;					1 SIONIA	ENIN
	17-10075/263 10-	-21975/263		MWFRS (di	rectional); cantileve	r left an	d right expos	ed ;				INA	- milling
	21-24=-975/263 24-	-26=-975/263		end vertical	left and right expos	ed; Lun	nber DOL=1.6	60		13	the second second		Internet
	26-27=-1188/297	20 010/200,		plate grip D	UL=1.60					J	ulius L	ee PE No. 34869	EL Contract
										1	6023 S	vingley Ridge Rd C	A FL CERT 0034 Thesterfield MO 63017
										D D	ate:	ingley Ruge Ru. C	nesterneta, no 0001/

January 14,2025

Mittek ® 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / Mittek-US.com

	Job	Truss	Truss Type		Qty	Ply	Holloway	
	1224-054 with attic	A01	Roof Special Girder		1	2	Job Reference (optional)	T36050240
Mayo Truss Company, Inc., Mayo, FL - 32066,				un: 8.73 S Dec 5 20	Page: 2			

ID:07xyUkmHREKiVrGkkwPWHIzx5Dj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Mayo Truss Company, Inc., Mayo, FL - 32066,

- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 9-10-0 from the left end to connect truss(es) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber. 18) "NAILED" indicates 3-10d (0.148"x3") or 3-12d
- (0.148"x3.25") toe-nails per NDS guidlines.
- LOAD CASE(S) Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, 1) Plate Increase=1.25
 - Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-5=-60, 27-29=-60, 30-37=-20, 5-6=-60, 6-26=-60, 26-27=-60

- Concentrated Loads (lb)
 - Vert: 35=-1288 (B), 32=-263 (B), 31=-263 (B), 40=-263 (B), 42=-263 (B), 43=-263 (B), 44=-263 (B), 45=-263 (B), 46=-263 (B), 47=-263 (B), 48=-263 (B), 50=-263 (B), 51=-263 (B), 52=-263 (B)



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A02	Piggyback Base	1	1	Job Reference (optional)	T36050241

Run 8 73 S. Dec. 5 2024 Print: 8 730 S.Dec. 5 2024 MiTek Industries. Inc. Tue. Jan 14 09:19:50 ID:wGV92zgcUuNVxKrS86YcbPzxP4H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:71.7

Plate Offsets (X, Y):	[2:Edge,0-0-0]	, [4:0-2-8,0-3-0], [5	5:0-6-4,0-2-0], [7:0-	-2-8,0-3-0], [8:0-6-4,0	-2-0], [16:0-2-8,0-3-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.11	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.19	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 283 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except end verticals, and 2-0-0 oc purlins
	(4-5-5 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 8-13, 6-15, 6-14, 7-14
REACTIONS	(size) 2=0-3-8, 11= Mechanical
	Max Horiz 2=250 (LC 11)
	Max Uplift 2=-49 (LC 12)
	Max Grav 2=1850 (LC 17), 11=1719 (LC 18)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/77, 2-5=-2186/111, 5-6=-1635/121,
	6-8=-1567/122, 8-9=-1690/110,
	9-10=-1411/53, 10-11=-1676/35
BOT CHORD	2-17=-97/1719, 15-17=-45/1717,
	13-15=0/1694, 12-13=-35/1039, 11-12=-29/40
WEBS	4-17-0/175 4-16329/96 5-16-0/488
WLDS	8-13- <i>1</i> /173, 4-10-329/90, 3-10-0/400, 8-13- <i>1</i> /1/171, 0-13-3/270, 0-12-563/70
	10-12=-8/1250 $6-15=-328/72$ $5-15=-5/547$
	6-14=-176/9, 7-14=-353/68, 8-14=-2/762
NOTES	· · · · · ·

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

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-9-3, Zone1 1-9-3 to 11-5-9, Zone2 11-5-9 to 16-9-8, Zone1 16-9-8 to 28-4-6, Zone2 28-4-6 to 33-8-5, Zone1 33-8-5 to 37-6-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding. 4) 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members, with BCDL = 10.0psf. Bearings are assumed to be: Joint 2 SP No.2 . 8)
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A03	Piggyback Base	1	1	Job Reference (optional)	T36050242

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:50 ID:ho_AjimdbMNMvYS?cohUw5zxP49-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:66

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC2023	/TPI2014	CSI TC BC WB Matrix-AS	0.36 0.40 0.33	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.10 0.03	(loc) 10-11 10-11 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 252 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood sheat except end verticals, (5-7-8 max.): 2-5. Rigid ceiling directly 1 Row at midpt (size) 8= Mechaat Max Horiz 14=-271 (I Max Uplift 14=-2 (LC Max Grav 8=1353 (L	athing directly applied and 2-0-0 oc purlins applied. 2-13, 1-14, 3-12, 4-11 nical, 14=0-3-8 _C 10) 12) C 18), 14=1365 (LC ²	3) 4) 5) 1, 6) 1 7) 8) 9) 18)	Building Desi verifying app requirements Provide adec This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Bearings are Refer to girda Provide mecl bearing plate 14	gner / Project engir ied roof live load sł specific to the use uate drainage to pr s been designed fo d nonconcurrent wi as been designed f n chord in all areas y 2-00-00 wide will y other members, v assumed to be: Joi er(s) for truss to trus nanical connection capable of withstar	neer re- nown cr of this revent v r a 10.0 ith any for a liv where fit betw with BC int 14 S ss conr (by oth nding 2	sponsible for overs rain loa water ponding of psf bottom other live loa e load of 20.0 a rectangle veen the botto DL = 10.0psf SP No.2 ections. ers) of truss t l buplift at jo	ding nent. g. ds. Opsf om o n					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	10)	This truss de structural wo	sign requires that a	minim plied d	um of 7/16" rectly to the t	ao					
TOP CHORD	1-2=-662/162, 2-3=-8 5-6=-1255/112, 6-7= 1-14=-1320/50	396/132, 3-5=-1030/1 -1105/41, 7-8=-1312/	27, '36, 11)	chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.							inn.		
BOT CHORD	13-14=-207/253, 12- 10-12=0/956, 9-10=-	13=-19/530, 35/799, 8-9=-29/40	,	or the orienta bottom chord	tion of the purlin al	ong the	top and/or				AL.	JULIUS	LEE
WEBS	2-13=-716/130, 5-10 6-9=-402/70, 7-9=-8/ 3-12=-593/100, 2-12 4-11=-351/63, 5-11=	=0/234, 6-10=-49/152 965, 1-13=-53/1017, =-40/966, 3-11=-37/3 -19/345	^{2,} L O 30,	AD CASE(S)	Standard						*	No 34	369
NOTES	ad reaf live leads have l	haan aanaidarad far								=	-		
this design	a roof live loads have . 1.	been considered for									7	XHAD	ner:
2) Wind: AS(Vasd=101 B=45ft; L=	CE 7-22; Vult=130mph mph; TCDL=6.0psf; BC 30ft; eave=4ft; Cat. II;	(3-second gust) CDL=6.0psf; h=15ft; Exp B; Enclosed;	2								OX	C C R	D.A

Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 8-1-12 to 11-1-12, Zone1 11-1-12 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1 15-8-7 to 28-4-6, Zone2 28-4-6 to 32-7-4, Zone1 32-7-4 to 37-6-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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.sbcscomponents.com)

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MITek-US.com

January 14,2025

ONALE

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

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Julius Lee PE No. 34869

Date:

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A04	Piggyback Base	1	1	Job Reference (optional)	T36050243

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:50 ID:9XbP3gBaL6oObwdj9epirTzxP3c-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1	1:83.2
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Plate Offsets (X, Y): [6:0-5-8,0-3-0], [8:0-4-0,0-4-8], [9:0-5-4,0-3-0], [11:Edge,0-0-4], [13:0-6-0,0-2-8]										
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PL/

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25		CSI TC	0.23	DEFL Vert(LL)	in -0.08	(loc) 14-15	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.25		BC	0.61	Vert(CT)	-0.17	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.78	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	FBC20	23/TPI2014	Matrix-AS							Weight: 306 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD	2x6 SP No.2 2x4 SP No.2 2x4 SP No.2 Left: 2x4 SP No.3 Structural wood sheat except 2-0-0 oc purlins (5-7 Rigid ceiling directly	athing directly applied -11 max.): 6-9. applied.	2 d,) Wind: ASCE Vasd=101mp B=45ft; L=42 MWFRS (dirr Zone1 2-2-0 21-4-4 to 32- to 41-8-0 zor vertical left a for members Lumber DOL) Building Des	7-22; Vult=130mp bh; TCDL=6.0psf; ft; eave=5ft; Cat. 1 ectional) and C-C to 15-5-9, Zone2 4-6, Zone2 32-4-6 te; cantilever left a nd right exposed; and forces & MW =1.60 plate grip D igner / Project eng	oh (3-sec BCDL=6 II; Exp B; Zone3 -2 15-5-9 to 5 to 38-3- and right porch lef FRS for IOL=1.60 jineer res	cond gust) .0psf; h=15ft; Enclosed; 2-0-0 to 2-2-0 21-4-4, Zone 1, Zone1 38- exposed; en ft exposed; c- reactions sho) sponsible for	, e1 ·3-1 d C own;					
REACTIONS	(size) 2=0-3-8, 1 Max Horiz 2=193 (LC Max Uplift 2=-162 (Lt 18=-89 (Lt Max Grav 2=246 (LC 18=2220 (1= Mechanical, 18=(11) C 12), 11=-2 (LC 12) C 12) C 12) C 23), 11=1021 (LC 2 LC 1))-3-8 , 4 4), 5	 verifying app requirements Provide adec This truss ha chord live loa * This truss h 	lied roof live load specific to the us quate drainage to s been designed f ad nonconcurrent	shown co e of this prevent v for a 10.0 with any	overs rain loa truss compor water ponding) psf bottom other live loa e load of 20 (iding nent. g. ds.					
FORCES	(lb) - Maximum Com	pression/Maximum	0	on the botton	n chord in all area	s where	a rectangle	ры					
TOP CHORD	1-2=0/54, 2-3=-8/449 4-5=0/1264, 5-6=-44 7-9=-1518/157, 9-10 10-11=-1357/144	9, 3-4=0/684, /175, 6-7=-1518/47, =-1067/192,	7	3-06-00 tall b chord and an) Bearings are SP No.2.	by 2-00-00 wide wi by other members. assumed to be: J	oint 2 SF	veen the botto P No.2 , Joint	om 18			A.M.	JULIUS	
BOT CHORD	2-20=-369/66, 19-20 17-18=-2201/332, 5- 16-17=-1052/146, 15 14-15=0/1310, 13-14 11-12=-50/975	=-369/0, 18-19=-15/0 17=-1732/60, 5-16=-176/181, 4=0/853, 12-13=-27/9), g	 Provide mecl bearing plate 11, 162 lb up This truss de structural wo 	hanical connection capable of withst lift at joint 2 and 8 sign requires that	n (by oth anding 2 9 lb uplif a minim	ers) of truss t b uplift at jo t at joint 18. um of 7/16"	o int			*		869
WEBS	4-19=-189/745, 17-1 4-17=-610/248, 5-16 6-15=0/1776, 9-13=- 8-15=0/431, 9-14=0/ 10-13=-324/126, 10- 3-19=-443/228, 3-20	9=-762/0, =0/1252, 6-16=-1146 131/57, 7-15=-353/1 593, 8-14=-544/26, 12=0/203, =-126/203	5/26, ^{14,} 1 L	 chord and 1/2 the bottom cl Graphical pu or the orienta bottom chorc OAD CASE(S) 	2" gypsum sheetro hord. rlin representatior ation of the purlin a l. Standard	does no	oplied directly of depict the s	ize			ROLIN		P.A. HANN

 Unbalanced roof live loads have been considered for this design.

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Julius Lee PE No. 34869

January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A05	Piggyback Base	6	1	Job Reference (optional)	T36050244

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:51 ID:BWDm89WXHcymE1BDf12Te7zy51p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:81.2

Plata Offecte (X. V)	[6:0-5-8 0-3-0] [8:0-4-0 0-4-8] [9:0-5-4 0-3-0] [11:Edge 0-0-4] [13:0-6-0 0-	.2-81
	[0.0-3-0,0-3-0], [0.0-4-0,0-4-0], [3.0-3-4,0-3-0], [11.Luge,0-0-4], [13.0-0-0,0-	2-01

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.08	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.17	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 306 lb	FT = 20%

LUMBER							
TOP CHORD	2x6 SP N	0.2					
BOT CHORD	2x4 SP N	0.2					
WEBS	2x4 SP No.2						
WEDGE	Left: 2x4	SP No.3					
BRACING							
TOP CHORD	Structura	wood sheathing directly applied,					
	except						
	2-0-0 oc p	ourlins (5-7-11 max.): 6-9.					
BOT CHORD	Rigid ceil	ing directly applied.					
REACTIONS	(size)	2=0-3-8, 11=0-3-8, 18=0-3-8					
	Max Horiz	2=193 (LC 11)					
	Max Uplift	2=-162 (LC 12), 11=-2 (LC 12),					
		18=-89 (LC 12)					
	Max Grav	2=246 (LC 23), 11=1021 (LC 24),					
		18=2220 (LC 1)					
FORCES	(lb) - Max	imum Compression/Maximum					
	Tension						
TOP CHORD	1-2=0/54,	2-3=-8/449, 3-4=0/684,					
	4-5=0/126	64, 5-6=-44/175, 6-7=-1518/47,					
	7-9=-1518	8/157, 9-10=-1067/192,					
	10-11=-13	357/144					
BOT CHORD	2-20=-369	9/66, 19-20=-369/0, 18-19=-15/0,					
	17-18=-22	201/332, 5-17=-1732/60,					
	16-17=-10	052/146, 15-16=-176/181,					
	14-15=0/	1310, 13-14=0/853, 12-13=-27/975,					
	11-12=-50	0/975					
WEBS	4-19=-18	9/745, 17-19=-762/0,					
	4-17=-610	0/248, 5-16=0/1252, 6-16=-1146/26,					
	6-15=0/1	(76, 9-13=-131/57, 3-19=-443/228,					
	3-20=-120	6/203, 7-15=-353/114, 8-15=0/431,					
	9-14=0/59	<i>J</i> 3, 8-14=-544/26, 10-13=-324/126,					
	10-12=0/2	203					
NOTES							

1) Unbalanced roof live loads have been considered for

this design.

 Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-2-0, Zone1 2-2-0 to 15-5-9, Zone2 15-5-9 to 21-4-4, Zone1 21-4-4 to 32-4-6, Zone2 32-4-6 to 38-3-1, Zone1 38-3-1 to 41-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 11, 162 lb uplift at joint 2 and 89 lb uplift at joint 18.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A06	Piggyback Base	5	1	Job Reference (optional)	T36050245

Run 8 73 S. Dec. 5 2024 Print: 8 730 S.Dec. 5 2024 MiTek Industries. Inc. Tue, Jan 14 09:19:51 ID:Lr3Ob86pdRmnf9sroITSjzzxOqE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1	1:84.3
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.23	Vert(LL)	-0.08	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.17	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		()					Weight: 312 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except
	Pigid colling directly applied
BOT CHORD	
REACTIONS	(Size) 2=0-3-8, 11=0-3-8, 19=0-3-8
	Max Horiz 2=206 (LC 11)
	Max Uplift 2=-197 (LC 12), 11=-64 (LC 12), 19=-41 (LC 12)
	Max Grav 2=246 (LC 23), 11=1145 (LC 24), 19=2215 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/54, 2-3=0/447, 3-4=0/701, 4-5=0/1261,
	5-6=-58/176, 6-7=-1508/27, 7-9=-1508/137,
	9-10=-1053/174, 10-11=-1333/117,
	11-12=0/77
BOT CHORD	2-21=-368/78, 20-21=-368/0, 19-20=-15/0,
	18-19=-2195/270, 5-18=-1727/0,
	17-18=-1049/147, 16-17=-183/212,
	15-16=0/1299, 14-15=0/844, 13-14=0/945,
	11-13=0/945
WEBS	4-20=-185/743, 18-20=-760/0,
	4-18=-609/258, 5-17=0/1248, 6-17=-1141/0,
	6-16=0/1765, 9-14=-135/56, 7-16=-354/114,
	8-16=0/431, 9-15=0/593, 8-15=-543/4,
	3-20=-442/223, 3-21=-125/203,
	10-14=-295/116, 10-13=0/200
NOTES	

1) Unbalanced roof live loads have been considered for

this design.

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-2-0, Zone1 2-2-0 to 15-5-9, Zone2 15-5-9 to 21-4-4, Zone1 21-4-4 to 32-4-6, Zone2 32-4-6 to 38-3-1, Zone1 38-3-1 to 43-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding. 4)
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2, 41 lb uplift at joint 19 and 64 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16" 9) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A07	Piggyback Base	1	1	Job Reference (optional)	136050246

5x5=

22235 24

11

3x4

10

20-8-0

4-5-15

6x8=

25-11-2

5-3-2

16-0-5

5 - 0 - 9

16-2-1

5-2-5

1.5x4 u

4

12

6x8=

10-11-12

6-6-3

13 ^{___6}

10-11-12

6-4-7

3x4 🚽

21

4-5-9

3-3-13

20

2-0-0

4-7-5

3-3-13

15 `⊥ 4x12 ∉

3x5= 4 1.5x4 **II** 1-3-8

-3-8

4x8=

3

12 10

3x5 🖌

4x6 4

Mayo Truss Company, Inc., Mayo, FL - 32066,

10-4-7

Scale = 1:68.4

6-7-13

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:51 ID:TMQk_nO_RcsAdnrCbpjnADzxOcy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



9

1.5x4 II

30-8-0

4-8-14

6-7-13

2-7-0

2-0-0 2-0-0

8

X

4x6 u

A 21-4-6, Zone2 21-4-6 to 25-11-2, Zone1 25-11-2 to
 O-8-0 zone; cantilever left and right exposed; end
 ertical left and right exposed; C-C for members and
 MiTe
 orces & MWFRS for reactions shown; Lumber
 DoL=1.60
 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 prevent buckling of individual truss we band/or chord members only. Additional temporary and permanent bracing
 is always required for stability and to prevent buckling of trusse spate truss, see ANSUFTPI Quality Criteria and DSE-22 available from Truss Plate Institute (www.tpinst.org)
 and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Plate Offsets (X, Y): [3:0-6-4,0-1	12], [5:0-2-8,0-3-0], [6:0-6-4,0-2-0], [10:0-6-0	,0-2-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DC	L 1.25	TC	0.95	Vert(LL)	-0.15	11-12	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.30	11-12	>999	180			
BCLL	0.0	* Rep Stress In	cr YES	WB	0.58	Horz(CT)	0.31	8	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 217 lb	FT = 20%	
LUMBER	2x4 SP No 2		 Building E verifying a 	Designer / Project applied roof live lo	engineer res	sponsible for overs rain lo	r ading						

- BOT CHORD 2x4 SP No.2 2x4 SP No.2 WEBS Right: 2x4 SP No.2 WEDGE BRACING TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-4 max.): 3-6. BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 8=0-3-8, 16= Mechanical Max Horiz 16=-249 (LC 10) Max Grav 8=1221 (LC 1), 16=1221 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-437/167. 2-3=-1006/99. 3-4=-2708/0. 4-6=-2708/79, 6-7=-1361/105, 7-8=-1623/53, 1-16 = -1293/77BOT CHORD 15-16=-8/46 14-15=-88/89 2-14=-1030/118 13-14=-95/435, 12-13=0/921, 11-12=0/1863, 10-11=0/1093, 9-10=0/1174, 8-9=-21/1174 WEBS 2-13=0/763, 3-13=-677/35, 3-12=0/2202, 6-10=-247/33, 4-12=-362/80, 5-12=0/1266, 6-11=0/999, 5-11=-985/8, 7-10=-289/77 7-9=0/183, 14-16=-321/323, 1-14=0/959
- NOTES
- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-2-9, Zone1 3-2-9 to 4-5-9, Zone2 4-5-9 to 8-9-9, Zone1 8-9-9 to 21-4-6, Zone2 21-4-6 to 25-11-2, Zone1 25-11-2 to 30-8-0 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

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: , Joint 8 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A08	Piggyback Base	4	1	Job Reference (optional)	T36050247

1)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:51 ID:RDHk6UtiM_AiDVww9YoA52zxOS?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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16023 Swinaley Ridae Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A09	Piggyback Base	1	1	Job Reference (optional)	T36050248

Run: 8 73 S. Dec. 5 2024 Print: 8 730 S.Dec. 5 2024 MiTek Industries. Inc. Tue Jan 14 09:19:51 ID:4IVQbLXFQAjUy8xIv86IQKzxOFX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.2 WEBS Right: 2x4 SP No.2 WEDGE BRACING Structural wood sheathing directly applied, TOP CHORD except end verticals, and 2-0-0 oc purlins (2-4-8 max.): 3-6. BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 8=0-3-8, 17= Mechanical Max Horiz 17=-270 (LC 10) Max Uplift 8=-45 (LC 12) Max Grav 8=1345 (LC 1), 17=1217 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension 1-2=-444/136, 2-3=-1014/52, 3-4=-2695/0, TOP CHORD 4-6=-2695/30, 6-7=-1348/82, 7-8=-1592/10, 8-9=0/77. 1-17=-1320/0 BOT CHORD 16-17=-3/47, 15-16=-86/88, 2-15=-1026/110, 14-15=-115/459, 13-14=0/947, 12-13=0/1851, 11-12=0/1082, 10-11=0/1143, 8-10=0/1143 WEBS 2-14=0/760, 3-14=-674/27, 3-13=0/2191, 6-11=-250/13, 4-13=-362/81, 5-13=0/1290, 6-12=0/996, 5-12=-983/0, 7-11=-261/70, 7-10=0/176, 15-17=-347/372, 1-15=0/981 NOTES

Unbalanced roof live loads have been considered for

1)

this design.

B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-2-9, Zone1 3-2-9 to 4-5-9, Zone2 4-5-9 to 8-9-9, Zone1 8-9-9 to 21-4-6, Zone2 21-4-6 to 25-11-2, Zone1 25-11-2 to 32-8-0 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 Building Designer / Project engineer responsible for 3) verifying applied roof live load shown covers rain loading

Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;

- requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom 5)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members.
- Bearings are assumed to be: , Joint 8 SP No.2 . 8) Refer to girder(s) for truss to truss connections.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 8

- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

2)



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January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A10	Piggyback Base	1	1	Job Reference (optional)	T36050249

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:51 ID:NeTwCM1zmmtgNRZApFLwb_zxOEu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



- 1-2=-1624/48, 2-3=-1363/100, 3-4=-1627/122, 4-6=-2709/232, 6-7=-1003/86, 7-8=-346/119, 8-9=-1146/107 1-16=-181/1185, 15-16=-177/1185, 14-15=-137/1092, 13-14=-181/1840 8) 12-13=-150/844, 11-12=-124/310, 9) 10-11=-84/84, 7-11=-1030/173, 9-10=-3/33 2-15=-288/77, 3-15=-247/67 6-13=-158/2204, 6-12=-677/91
- NOTES

WEBS

BOT CHORD

TCDL

BCLL

BCDL

WEBS

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

8-11=-180/900

7-12=-19/762, 5-13=-368/79, 4-13=-130/1273, 3-14=-57/1005,

4-14=-979/119, 2-16=0/182, 9-11=-249/232,

- 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.
- Bearings are assumed to be: Joint 1 SP No.2
- Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 9.

- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A11	Piggyback Base	1	1	Job Reference (optional)	T36050250

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:52 ID:153tObrQRy_bfR5QuLXdO2zx8gO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:78.3

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

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.24	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.43	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 306 lb	FT = 20%

LU	М	в	E	R	

LOWIDEN	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 10-7:2x4 SP No.1
WEBS	2x4 SP No.2
WEDGE	Right: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except end verticals, and 2-0-0 oc purlins
	(4-11-13 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-12, 4-11, 6-10
REACTIONS	(size) 7=0-3-8, 14= Mechanical
	Max Horiz 14=-241 (LC 10)
	Max Uplift 7=-48 (LC 12)
	Max Grav 7=2051 (LC 18), 14=1904 (LC 17)
FORCES	(Ib) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-1611/146, 2-3=-1934/245,
	3-5=-2010/266, 5-6=-2594/266,
	6-7=-3319/214, 7-8=0/54, 1-14=-1843/170
BOT CHORD	13-14=-174/230, 9-13=-89/2828,
	7-9=-142/2836
WEBS	2-13=-630/105, 2-12=0/359, 3-12=-63/214,
	3-11=-54/981, 4-11=-561/134, 5-11=-30/308,
	5-10=-44/1152, 6-10=-1293/189, 6-9=0/320,
	1-13=-89/1373
NOTES	

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

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 2-6-9 to 6-8-9, Zone1 6-8-9 to 11-8-7, Zone2 11-8-7 to 17-7-2, Zone1 17-7-2 to 28-7-4, Zone3 28-7-4 to 34-5-3, Zone1 34-5-3 to 46-0-13 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding. 4)
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Bearings are assumed to be: , Joint 7 SP No.1 .
- 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 9)
- bearing plate capable of withstanding 48 lb uplift at joint 7.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



🗥 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 using the mathematical network of the intervention of the in

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A12	Piggyback Base	1	1	Job Reference (optional)	T36050251

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:52 ID:s30QL4XA?SAV_CyNkp3_C3zx8fv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:82.3

Plate Offsets (X, Y): [1:0-2-8,0-2-4], [3:0-5-4,0-3-0], [5:0-4-0,0-4-8], [6:0-5-4,0-3-0], [9:Edg	e,0-2-3], [13:0-2-8,0-3-4], [16:0-2-4,0-2-12]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.18	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.32	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 347 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
WEDGE	Right: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-2-10 max.): 3-6.
BOT CHORD	Rigid ceiling directly applied. Except:
1 Row at midp	it 4-16
WEBS	1 Row at midpt 5-16, 5-14, 7-13
REACTIONS	(size) 9=0-3-8, 19= Mechanical
	Max Horiz 19=-219 (LC 10)
	Max Uplift 9=-49 (LC 12)
	Max Grav 9=1997 (LC 18), 19=1838 (LC 17)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-2027/186, 2-3=-2000/267,
	3-4=-1799/256, 4-6=-1956/273,
	6-7=-2506/271, 7-8=-3088/235,
	8-9=-3322/186, 9-10=0/54, 1-19=-1749/178
BOT CHORD	18-19=-130/279, 17-18=0/1621,
	16-17=0/1562, 15-16=0/127, 4-16=-294/108,
	14-15=0/182, 12-14=-97/2711,
	11-12=-98/2841, 9-11=-98/2841
WEBS	3-17=-47/251, 3-16=-79/943, 14-16=0/1814,
	5 - 10 = -312/31, $5 - 14 = -359/95$, $6 - 14 = -21/340$, 6 - 12 = -40/4082, $7 - 12 = -4226/404$, $7 - 12 = 0/260$
	0 - 13 = -43/1002, 7 - 13 = -1220/191, 7 - 12 = 0/209, 2 47 = 105/122, 2 49 = 249/72, 9 42 = 444/19
	2 - 17 = -100/120, 2 - 10 = -240/10, 0 - 12 = -144/10, 0 - 144/10, 0 -
	0-11-0/100, 1-1000/1400

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 4-3-12, Zone1 4-3-12 to 9-3-10, Zone2 9-3-10 to 15-2-6, Zone1 15-2-6 to 26-2-7, Zone3 26-2-7 to 32-0-6, Zone1 32-0-6 to 43-8-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 7) Bearings are assumed to be: , Joint 9 SP No.2.
- Bearings are assumed to be., Joint 9 SF No.2.
 Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 49 lb uplift at joint 9.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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January 14,2025

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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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality** Criteria 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.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A13	Piggyback Base	1	1	Job Reference (optional)	T36050252

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:52 ID:kLOoOaWYXYcqymcbVPS81Szx8aM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Plate Offsets (X, Y): [[3:0-6-4,0-2-0], [5:0-2-8,0-3-4], [6:0-6-4,0-2-0], [7:0-1-0,0-1-12], [11:0-4-12,0-3-0], [13:0-2-4,0-2-12]
-------------------------	---

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.55	Vert(LL)	-0.23	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.41	14-15	>850	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 251 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except end verticals, and 2-0-0 oc purlins
	(5-5-14 max.): 3-6.
BOT CHORD	Rigid ceiling directly applied. Except:
1 Row at midp	t 4-13
WEBS	1 Row at midpt 5-10, 6-9, 7-8
REACTIONS	(size) 8=0-4-0, 15= Mechanical
	Max Horiz 15=267 (LC 11)
	Max Uplift 8=-2 (LC 12)
	Max Grav 8=1309 (LC 17), 15=1321 (LC 17)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-386/54, 2-3=-1310/109, 3-4=-1034/124,
	4-6=-1035/142, 6-7=-592/177, 1-15=-330/45,
	7-8=-1286/46
BOT CHORD	14-15=-235/1061, 13-14=-151/1013,
	12-13=0/124, 4-13=-308/59, 10-12=0/173,
	9-10=-94/404, 8-9=-107/118
WEBS	2-14=-82/123, 3-14=0/402, 3-13=-47/339,
	10-13=-150/754, 5-13=-59/290,
	5-10=-640/131, 6-10=-30/918, 6-9=-716/141,
	2-15=-1096/42, 7-9=-55/1026
NOTES	

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-3-10, Zone2 9-3-10 to 13-6-9, Zone1 13-6-9 to 26-2-7, Zone3 26-2-7 to 29-1-12 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
- Building Designer / Project engineer responsible for 3) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections. 8)
- Provide mechanical connection (by others) of truss to 9)
- bearing plate capable of withstanding 2 lb uplift at joint 8.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	A14	Piggyback Base Girder	1	2	Job Reference (optional)	T36050253

Run 8 73 S. Dec. 5 2024 Print: 8 730 S.Dec. 5 2024 MiTek Industries. Inc. Tue, Jan 14 09:19:52 ID:k9z4507XWD2bac0P_dt5bCzx8ZZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Plate Offsets (X, Y): [3:0-6-4,0-2-0], [5:0-2-8,0-3-0], [6:0-6-4,0-2-0], [10:0-2-12,0-4-8], [12:0-2-4,0-2-12], [14:0-3-0,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.43	Vert(LL)	-0.06	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.10	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 557 lb	FT = 20%

LUMBER TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP No.2 *Except* 15-12:2x6 SP 2400F 2.0E, 4-11:2x4 SP No.2	2)	All loads are considered eq except if noted as front (F) CASE(S) section. Ply to ply provided to distribute only I
WEBS	2x4 SP No.2 *Except* 15-1:2x6 SP No.2		unless otherwise indicated.
BRACING		3)	Unbalanced roof live loads
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.	4)	Wind: ASCE 7-22; Vult=130 Vasd=101mph; TCDL=6.0p
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:		B=45ft; L=29ft; eave=4ft; C MWFRS (directional); canti
1 Row at midpt	4-12		end vertical left and right ex
REACTIONS ((size) 8=0-4-0, 15= Mechanical	5)	Truss designed for wind loa
1	Max Horiz 15=265 (LC 7) Max Grav 8=1585 (LC 13), 15=4264 (LC 13)	0)	only. For studs exposed to see Standard Industry Gab
FORCES	(lb) - Maximum Compression/Maximum		or consult qualified building
	Tension	6)	Building Designer / Project
TOP CHORD	1-2=-3365/0, 2-3=-2027/0, 3-4=-1550/0,		verifying applied roof live lo
	4-6=-1549/50, 6-7=-704/94, 1-15=-2782/0, 7 8 - 1557/0		requirements specific to the
	7-0=-1007/0 14-15114/842 13-14-0/2635	()	Provide adequate drainage
Bor onone	12-13=0/1571, 11-12=0/122, 4-12=-308/58.	0)	braced against lateral move
	9-11=-31/484, 8-9=-82/77	9)	Gable studs spaced at 2-0-
WEBS	2-14=0/1772, 2-13=-1619/0, 3-13=0/986,	10)	This truss has been design
	3-12=-124/191, 10-12=-1/1060, 5-12=0/686,	,	chord live load nonconcurre
	5-10=-937/34, 6-10=0/1258, 6-9=-911/36,	11)	* This truss has been desig
NoTE0	1-14=0/1879, 7-9=0/1231		on the bottom chord in all a
NOTES			3-06-00 tall by 2-00-00 wide
(0.121"y2")	to be connected together with 10d	12)	Bearings are assumed to b
(U.IST XS)	connected on follower 2x4 1 row at 0.0.0	12)	Defor to girdor(c) for truce t

- I op chords connected as follows: oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows
- staggered at 0-4-0 oc, 2x4 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- ually applied to all plies, or back (B) face in the LOAD 17) connections have been loads noted as (F) or (B), 1)
- have been considered for
- Omph (3-second gust) osf; BCDL=6.0psf; h=15ft; at. II; Exp B; Enclosed; ilever left and right exposed ; xposed; Lumber DOL=1.60
- ads in the plane of the truss wind (normal to the face), le End Details as applicable designer as per ANSI/TPI 1.
- engineer responsible for ad shown covers rain loading e use of this truss component.
- to prevent water ponding.
- from one face or securely ement (i.e. diagonal web).
- -0 oc.
- ed for a 10.0 psf bottom ent with any other live loads
- ned for a live load of 20.0psf areas where a rectangle le will fit between the bottom ers, with BCDL = 10.0psf.
- e:, Joint 8 SP No.2.
- efer to girder(s) for truss to truss connections. 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 2-10-8 from the left end to connect truss(es) to back face of bottom chord.

16) Fill all nail holes where hanger is in contact with lumber. "NAILED" indicates 3-10d (0.148"x3") or 3-12d

- (0.148"x3.25") toe-nails per NDS guidlines.
- LOAD CASE(S) Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-6=-60, 6-7=-60, 12-15=-20, 8-11=-20

Concentrated Loads (lb) Vert: 19=-271 (B), 20=-2628 (B)



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



				1											
Job		Truss		Truss T	уре		Qty	Ply	у	Hollow	ay				T00050054
1224-054 w	ith attic	B01		Attic S	upported G	able	1	1		Job Re	eferenc	e (optic	onal)		136050254
Mayo Truss Cor	npany, Inc., Ma	ayo, FL - 320	066,			Run: 8.73 S Dec 5	2024 Prin	nt: 8.730 S	S Dec 5	2024 Mi	Fek Indu	stries, Ir	nc. Tue	e Jan 14 09:19:52	Page: 1
						ID:mprHtLdq9G7HL	KIYjjLOv5	5zx5Mw-R	RfC?PsB7	0Hq3NS	gPqnL8	24 <u>8</u>	ġGKW	/rCDoi7J4zJC?f	
				2-9-	65-0-12	10.4.0	14-2-11	l		2	23-1 1-10-1	1-9 0			
			<u>-2-0-0</u> -2-0-0		0-12	10-5-5 12-4-0		<u>19</u> 5-)-7-4 _4_9	21-	<u>9-4</u> ∥	4.6.7	26-8	<u>-0</u>	
			200	1-6-7 0-	52-2-0	0 + 0 1-10-1	1-10-11		70	~ ~ ~	0-1-6	1-10-7	20	0	
LATE IF ST	RALLY BRAG	CE TOP CI	HORD WITH PURLIN NG IS NOT DIRECTL	NS AT 2-0 Y APPLIE	-0 o/c :D.	5	x5= 7				1-2-	15			
		Т	Т			4x6 4	, F\	×6							
					2	^{2x4} 6	\sim	8							
					2x4 II		6	2x4	4 n	2×4					
		0	P-2-		2x4 II				2x4	2,4 1	7x8、				
		1 5		12_{10}	4 u .				//	2x4	l II	4x*	12 ။		
				3x4 ø	[•] 5				P	9		3x4、			
		1	4	lx12∎ д						R	2x4	4 u			
			μ L	3							X	11			
												۳Ŋ	2		
		5-4-										\rightarrow	\mathbb{N}	× 12 00	
		⊥	-⊥÷ ÷⊥ ′∕35			>289 > 27 > 285 		> <u>2</u> 1					14		
				3	34 3332 x4= 3x4=	30 28 26 3x4= $5x5=$ $3x4=$	24 3x4=	22 3x4=	20 3x4=	1716 3x8=	15 3x4=				
					_ 4x78 1	-1 ³ x4= <u>9-2³x4</u> = 3x4=	3x4=	= 3x4=	3x4=	9-7-4	••••				
				2-10-12	5-0-12	9-0-14 11-3-9 13-	4-7 15-	-5-6 ₁ 17-6	6-5 19-5	-8 21-	9-4 2	4-8-0	ł		
Scale = 1:79.5				2-10-12	2-2-0 0-1-12	1-11-3 2-0-15 2-0 0-1-12	-15 2-0-	0-15 2-0-	-15 1-11 (-3 2-2)-1-12	2-0 2-	10-12			
Plate Offsets	(X, Y): [2:0-8	3-12,0-1-8]], [4:0-4-0,0-4-8], [10:	0-4-0,0-4	-8], [12:0-8-1	2,0-1-8], [28:0-2-8,0-3-	0]								
Loading		(psf)	Spacing	2-0-0		CSI	D	DEFL		in (l	c) I/	defl	L/d	PLATES	GRIP
TCLL (roof)		20.0 10.0	Plate Grip DOL	1.25 1.25		TC BC	0.26 V 0.10 V	Vert(LL)	n	/a /a	-	n/a s	999 999	MT20	244/190
BCLL		0.0*	Rep Stress Incr	YES		WB	0.09 H	Horz(CT)) 0.0)1	15	n/a	n/a		
BCDL		10.0	Code	FBC202	3/TPI2014	Matrix-AS								Weight: 306 lb	FT = 20%
	2V6 SD No	2 *Excont	+* 1 2 11 12.2v/ CD 1	BC	OT CHORD	34-35=-266/232, 33-3	34=0/384 0/299 2	4, 32-33	=0/384, 246	8) 9)	Gable	studs s		d at 2-0-0 oc.	10.0 psf bottom
BOT CHORD	2x4 SP No	0.2 Except	t 1-3,11-13.2X4 3F 1	NU.2		22-24=0/249, 20-22=	0/266, 1	17-20=0/3	317,	5)	chord I	live loa	d non	concurrent with a	any other live loads.
WEBS OTHERS	2x4 SP No 2x4 SP No).2).2				29-31=0/179, 27-29=	0/359, 14 0/226, 2	14-15=-4 25-27=0/2	8/32, 232,	10)	on the	truss ha	as be chor	en designed for a	a live load of 20.0psf ere a rectangle
BRACING						23-25=0/229, 21-23=	0/212, 1	19-21=0/	161,		3-06-0	0 tall by	y 2-00	0-00 wide will fit b	PCDL = 10 Oper
TOP CHORD	Structural	wood shea d verticals	athing directly applied	d, W	EBS	17-18=-462/108, 9-18	8=-427/1	118,		11)	Ceiling	dead l	oad (10.0 psf) on men	nber(s). 5-6, 8-9,
BOT CHORD	Rigid ceilir	ng directly	applied.			31-32=-383/137, 5-31 6-36=-377/152 8-36=	=-428/1	116, 52 7- 36=	-3/68	12)	6-36, 8	3-36 Irings a	re as	sumed to be SP	No 2
JOINTS	1 Brace at 29, 27, 25	: Jt(s): 36, , 23, 21,				4-32=0/221, 10-17=0/	/221, 12	2-15=0/42	-22,	13)	Provide	e mech	anica	al connection (by	others) of truss to
	19					10-15=-347/0, 2-34=0 30-31=-188/0, 29-30=)/429, 4- =-126/0,	-34=-339 28-29=-	9/0, -54/0,		bearing 17, 14	g plate 3 lb upl	capa ift at i	ble of withstandir ioint 32. 2 lb uplif	ng 148 lb uplift at joint t at ioint 33 and 1 lb
REACTIONS	(size)	14=24-8-0 17=24-8-0), 15=24-8-0, 16=24-8), 20=24-8-0, 22=24-8	8-0, 8-0,		27-28=-115/0, 26-27=	-20/0, 2	25-26=-1	26/0,		uplift a	t joint 1	6.		
		24=24-8-0), 26=24-8-0, 28=24-8	8-0,		21-22=-133/0, 20-21=	=0/58, 19	9-20=-19	94/0,	14)	structu	iral woo	od sh	equires that a mill eathing be applie	d directly to the top
		34=24-8-0), 35=24-8-0), 35=24-8-0	J-U,	TEP	17-19=0/170					chord a	and 1/2	" gyp ord	sum sheetrock b	e applied directly to
	Max Horiz Max Uplift	35=264 (L 16=-1 (I C	.C 11) : 16) 17=-148 (I C 12) 1)	Unbalance	d roof live loads have b	been cor	nsidered	d for	15)	Attic rc	om che	ecked	for L/360 deliec	tiqn;
	Max opini	32=-143 (I	LC 12), 33=-2 (LC 16	5) 5) 5 2)	this design. Wind: ASC	F 7-22 [.] Vult=130mph (3-secon	nd aust)		LO	AD CAS	SE(S)	Star	idard ULIUS	LEE
	Max Grav	14=683 (L 16=9 (LC	.C 1), 15=261 (LC 18 3), 17=366 (LC 19),), –/	Vasd=101r	nph; TCDL=6.0psf; BC	DL=6.0p	psf; h=1	5ft;				51	CEN	Sp. III
		20=292 (L 24=252 (L	.C 16), 22=253 (LC 1 C 16), 26=263 (LC 1	6), 6)	MWFRS (d	irectional) and C-C Zo	схр в; е ne3 zon	ne; cantile	i; ever			1		No 34	869
		28=254 (L	.C 16), 30=284 (LC 1	6),	left and righ	t exposed ; end vertic	al left an	nd right	for			E	*		*
		32=322 (L 34=245 (L	.C 18), 33=8 (LC 11), .C 18), 35=682 (LC 1)	reactions s	hown; Lumber DOL=1.	60 plate	e grip							
FORCES	(lb) - Maxi	mum Com	pression/Maximum	3)	DOL=1.60 Truss desid	ned for wind loads in t	he plane	e of the t	truss			E	7:	VAL ITH	
TOP CHORD	i ension 2-35=-653	/22, 1-2=0	/71, 2-5=-573/0,	,	only. For s	tuds exposed to wind (normal f	to the fa	ace), icable			-	0	gan w	A. S.
5-6=-710/86, 6-7=-158/3, 7-8=-160/3, 8-9=-710/86, 9-12=-569/0, 12-13=0/71				or consult of	indard industry Gable End Details as applicable, sult qualified building designer as per ANSI/TPI 1.							11	ORI	Gin	
12-14=-654/19					Building De verifying an	signer / Project engine plied roof live load sho	er respo wn cove	onsible f ers rain l	for Ioadina	ONAL ENIN				LEMIN	
				F)	requiremen	ts specific to the use o	f this tru	uss comp	ponent.			Tulk	ne L es	PE No. 34860	In
				5) 6)	Gable requ	ires continuous bottom	onierwis i chord b	se maica bearing.	aເed.			MiT	ek In	c. DBA MiTek USA	FL Cert 6634
				7)	Truss to be	fully sheathed from or	ne face o (i.e. diac	or secure	ely b)			Dat	e:	ingrey Aluge Ka. U	itester field, MO 0301/

January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	B02	Attic	8	1	Job Reference (optional)	T36050255

Scale = 1:81.5

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:53 ID:oaOkNQe7IIu2DDHYu5Lztrzx8EF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



	0112	0-1-12	0-1-12	
	[2:0-2-14,0-2-0], [3:0-4-0,0-4-8], [4:0-6-5,Edge], [5:0-2-1,0-2-0],	[7:0-2-1,0-2-0], [8:0-6-5,Edge]], [9:0-4-0,0-4-8], [10:0-2-14,0-2-0], [15:0)-5-8,0-4-4], [25:0-2-12,0-3-0],
Plate Offsets (X, Y):	[28:0-2-8,0-3-0]			

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.70	Vert(LL)	-0.33	20-22	>889	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25		BC	0.81	Vert(CT)	-0.59	20-22	>499	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.47	Horz(CT)	0.07	12	n/a	n/a			
BCDL	10.0	Code	FBC20	23/TPI2014	Matrix-AS		Attic	-0.16	15-28	>999	360	Weight: 237 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD JOINTS	2x6 SP 2400F 2.0E ¹ No.2 2x4 SP No.2 *Excep 2x4 SP No.2 Structural wood shea except end verticals. Rigid ceiling directly 1 Brace at Jt(s): 32,	*Except* 1-3,9-11:2) t* 25-12:2x4 SP No. athing directly applie applied.	V k6 SP 1 ed,	VEBS	28-29=0/97, 4-28= 8-15=0/1113, 5-32 6-32=0/137, 3-28= 28-30=-448/231, 2 9-15=-269/105, 9- 13-15=-527/327, 1 27-28=0/1664, 26 24-25=-501/0, 23- 21-22=-123/131, 2 19-20=-579/0, 18-	=0/1108, 2=-1539/0 =-283/83, 2-30=0/13 13=-702, 10-13=0/ -27=-765 24=0/594 20-21=-13 19=0/303	14-15=0/850 0, 7-32=-1533 , 3-30=-672/0 323, /0, 1326, /0, 25-26=0/1 8, 22-23=-23(8/93, 8, 17-18=-116	,), 1132, D/0, 53/0,	9) Bea SP 10) This stru cho the 11) Atti LOAD (arings ar No.1 s truss d ictural w ord and 1 bottom o c room c CASE(S	e assu lesign i ood sh i/2" gyţ chord. checke) Stai	requires that a mi reathing be applie psum sheetrock t d for L/360 deflect ndard	31 SP No.2 , Jo nimum of 7/16" d directly to the e applied direct tion.	int 12
	26, 24, 22, 20, 18, 16		N	IOTES	16-17=0/527, 14-1	16=-1673	8/0							
REACTIONS	(size) 12=0-3-8, Max Horiz 31=280 (L Max Grav 12=1789 (31=0-3-8 .C 11) (LC 19), 31=1780 (L	1 C 18) ²	 Unbalanced this design. Wind: ASCE 	roof live loads hav	ve been o ph (3-seo	considered fo	r						
FORCES	(lb) - Maximum Com Tension	pression/Maximum		Vasd=101mj B=45ft; L=25	ph; TCDL=6.0psf; 5ft; eave=4ft; Cat.	BCDL=6	5.0pst; h=15tt ; Enclosed;	;						
TOP CHORD	10-12=-1754/0, 2-31 2-4=-1829/0, 4-5=-1 6-7=0/390, 7-8=-115 10-11=0/82	=-1749/0, 1-2=0/82, 156/4, 5-6=0/393, 9/2, 8-10=-1859/0,		Zone1 2-2-6 17-9-5 to 27- exposed ; er	to 13-6-6, Zone2 -10-6 zone; cantile d vertical left and	13-6-6 to ever left a right exp	0-9-10 to 2-2- 0 17-9-5, Zon and right posed;C-C for	ю, e1				JULIUS		
BOT CHORD	30-31=-254/259, 29- 27-29=-39/1631, 23- 21-23=0/4124, 19-2' 14-17=0/2643, 13-1' 46-28=-1661/0, 24-2 22-24=-3228/0, 20-2 18-20=-2727/0, 16-1 15-16=-678/365	30=-28/1628, 27=0/3612, 1=0/4136, 17-19=0/3 4=0/1545, 12-13=-16 6=-2627/0, 2=-3240/0, 8=-1718/0,	3623, ³ 5/43, 4 5 6 7	 Lumber DOL Building Des verifying app requirements All plates are This truss ha chord live loa * This truss h on the bottor 3-06-00 tall t chord and ar Ceiling dead 	=1.60 plate grip L signer / Project end blied roof live load s specific to the us as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w ny other members I load (10.0 psf) or	DOL=1.60 gineer re shown c se of this s otherwi for a 10.0 with any d for a liv as where rill fit betw	sponsible for overs rain loa truss compoi se indicated. 0 psf bottom other live loa re load of 20.0 a rectangle veen the bottive er(s). 5-32, 7-7	,, nent. ds. Dpsf om 32,			* PROVINI	AND 34	DA CITY	

Bottom chord live load (40.0 psf) and additional bottom

chord dead load (5.0 psf) applied only to room. 26-28,

24-26, 22-24, 20-22, 18-20, 16-18, 15-16

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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

4-5, 7-8

8)

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	B03	Attic	2	2	Job Reference (optional)	136050256

Scale = 1:77.6

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:53 ID:Wb85IRgCcE2ZJ7DpwofuF_zx8Xa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Plate Offsets (X, Y): [2:0-2-14,0-2-0], [3:0-4-0,0-4-8], [5:0	0-2-1,0-2-	0], [7:0-2-1,0-2-	-0], [9:0-4-0,0-4-	·8], [10:0-2	-14,0-2-0], [1	5:0-5-8,	0-4-4], [2	25:0-2-8,	,0-3-0],	[28:0-2-8,0-3-0]	I		
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25		тс	0.51	Vert(LL)	-0.16	20-22	>999	240	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25		BC	0.69	Vert(CT)	-0.30	20-22	>987	180				
BCLL	0.0*	Rep Stress Incr	YES		WB	0.37	Horz(CT)	0.05	12	n/a	n/a				
BCDL	10.0	Code	FBC20	23/TPI2014	Matrix-AS		Attic	-0.08	15-28	>999	360	Weight: 474 lb	FT = 20%		
LUMBER TOP CHORD BOT CHORD	2x6 SP No.2 2x4 SP No.2		N 1)	OTES 2-ply truss to (0.131"x3") n	be connected t nails as follows:	ogether wi	th 10d	0	10) Bot cho 24-:	tom cho ord dead 26, 22-2	rd live load (5 4, 20-2	load (40.0 psf) a 5.0 psf) applied o 22, 18-20, 16-18,	nd additional bottom only to room. 26-28, , 15-16		
WEBS	2x4 SP No.2				connected as for	10WS: 2X4 ·	- 1 fow at 0-9	-0	10) All 1	o truco d	ale as	sumed to be Sr	inimum of 7/16"		
BRACING TOP CHORD BOT CHORD	Structural wood she except end verticals Rigid ceiling directly	athing directly applie applied.	d,	0c, 2x6 - 2 rd Bottom chord 0-9-0 oc. Web connect	ted as follows: 2	t 0-9-0 oc. follows: 2 2x4 - 1 row	x4 - 1 row at at 0-9-0 oc,	0.00	12) This stru cho the	s truss d ictural w ird and 1 bottom	ood sh 272" gyp 280 chord.	eathing be appli osum sheetrock	ed directly to the top be applied directly to		
JOINTS	1 Brace at Jt(s): 32, 26, 24, 22, 20, 18, 16		2)	All loads are	considered equ	ally applie	d to all plies,	0.00.	pro lb d	vided su lown and	fficient	to support conc o up at 13-6-6 o	entrated load(s) 4522 n top chord. The		
REACTIONS	(size) 12=0-3-8, Max Horiz 31=280 (L Max Grav 12=4019	31=0-3-8 _C 11) (LC 20), 31=4011 (L0	C 20)	except if note CASE(S) sec provided to d	ed as front (F) o ction. Ply to ply o listribute only lo wise indicated	r back (B) connection ads noted	face in the LO s have been as (F) or (B),	DAD	 design/selection of such connection device(s) is the responsibility of others. 14) Attic room checked for L/360 deflection. 						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	3)	Unbalanced	roof live loads h	ave been o	considered fo	or	1) De	ead + Ro	of Live	e (balanced): Lui	mber Increase=1.25,		
TOP CHORD	10-12=-3960/0, 2-31 2-4=-4653/0, 4-5=-4 6-7=-3468/216, 7-8= 8-10=-4627/0, 10-11	=-3959/0, 1-2=0/82, 403/142, 5-6=-3461/ 4410/142, =0/82	4) 217,	Wind: ASCE Vasd=101mp B=45ft; L=25 MWFRS (dire	this design. Plate Increase=1.25 Wind: ASCE 7-22; Vult=130mph (3-second gust) Uniform Loads (lb/ft) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Vert: 12-31=-20, 16-28=-30, 14 B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; 7-32=-20, 12-2=-60, 2-4=-60, 4-4 WWEPS (directional) and C-C Zone3-0-9110 to 2-2-6 0.00000000000000000000000000000000000								5-16=-30, 5-32=-20, 5=-80, 5-6=-60,)-1160		
BOT CHORD	30-31=-232/281, 29- 27-29=0/2510, 23-27 19-21=0/4983, 17-19 13-14=0/2085, 12-13 24-26=-1488/0, 22-2	·30=0/2520, 7=0/4503, 21-23=0/4 9=0/4480, 14-17=0/3 3=0/79, 26-28=-510/4 44=-2102/0,	968, 547, 433,	Zone1 2-2-6 17-9-5 to 27- exposed ; en members and Lumber DOL	to 13-6-6, Zone 10-6 zone; cant id vertical left an d forces & MWF .=1.60 plate grip	2 13-6-6 to ilever left a d right exp RS for rea DOL=1.60	o 17-9-5, Zon and right oosed;C-C for octions showr O	e1 r,	Co	Vert: 6=	., 7 0– ited Loa :-2500	ads (Ib) (F)	, 11- 00		
WEBS	20-22=-2117/0, 18-2 16-18=-559/338, 15- 28-29=0/94, 4-28=-8	20=-1614/0, -16=-209/1963 33/580, 14-15=0/1073	5) 3,	Building Des verifying app requirements	igner / Project e lied roof live loa s specific to the	ngineer re d shown c use of this	sponsible for overs rain loa truss compo	ading nent.							
	8-15=-96/545, 5-32= 6-32=-3/91, 3-28=-3 28-30=-198/802, 2-3	988/0, 7-32=-988/0 1/1089, 3-30=-1784/ 80=0/3036,	, 6) 0, 7)	 All plates are This truss ha chord live load 	a 3x4 MT20 unle s been designe ad nonconcurrer	ess otherwi d for a 10.0 nt with any	se indicated. D psf bottom other live loa	ıds.							
	9-15=-23/1215, 9-13 13-15=-218/1202, 10 27-28=0/1686, 26-27 24-25=-502/0, 23-24	8=-1898/0, D-13=0/3025, 7=-769/0, 25-26=0/1 ⁻ I=0/617, 22-23=-236/	8) 128, /0,	* This truss h on the botton 3-06-00 tall b chord and an	has been design in chord in all are by 2-00-00 wide by other membe	ed for a liv eas where will fit betv rs.	e load of 20. a rectangle veen the bott	Opsf om							
	21-22=-126/137, 20- 19-20=-568/0, 18-19 16-17=0/507, 14-16=	-21=-22/94, 9=0/315, 17-18=-118 =-2040/0	9) 1/0,	Ceiling dead 4-5, 7-8	load (10.0 psf)	on membe	r(s). 5-32, 7-3	32,							

January 14,2025

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16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MITek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	B04	Attic	1	1	Job Reference (optional)	136050257

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:53 ID:hhGN2rjyKf6QOubfcHRq_czx8Cs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



	5-2-8	3×3-9-2-10	19-7-4	
	2-9-0 5-0-12	9-0-14 11-3-9 13-4-	7,15-5-6,17-6-5, ¹⁹⁻⁵⁻⁸ ,,22-0-12, 24-	8-0
	2-9-0 2-3-12	1-11-3 2-0-15 2-0-1	5 ['] 2-0-15 ['] 2-0-15 ['] 1- <u>11-3</u> " 2-5-8 ' 2-7	-4
Scale = 1:81.5	0-1-12	0-1-12	0-1-12	
Plate Offsets (X, Y): [2:0-2-14.0-2-0], [3:0-4-0.0-4-8], [4:0-6-5.E	dae]. [5:0-2-1.0-2-0].1	7 ³ 0-2-1 0-2-01 [8·0-6-5	Edge] [9:0-4-0 0-4-8] [15:0-5-8 0-3-	12] [24.0-2-12 0-3-0] [27.0-2-8 0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.33	19-21	>887	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.59	19-21	>496	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Attic	-0.16	15-27	>999	360	Weight: 231 lb	FT = 20%

LUMBER TOP CHORD

No.2

NOTES

 Unbalanced roof live loads have been considered for this design.

BOT CHORD 2x4 SP No.2 *Except* 24-11:2x4 SP No.1 2) 2x4 SP No.2 WFBS BRACING Structural wood sheathing directly applied, TOP CHORD except end verticals. BOT CHORD Rigid ceiling directly applied. JOINTS 1 Brace at Jt(s): 31. 25, 23, 21, 19, 17, 16 3) **REACTIONS** (size) 11=0-3-8, 30=0-3-8 Max Horiz 30=267 (LC 11) Max Grav 11=1665 (LC 19), 30=1785 (LC 18) 4) FORCES (Ib) - Maximum Compression/Maximum 5) Tension TOP CHORD 10-11=-1629/0, 2-30=-1753/0, 1-2=0/82, 6) 2-4=-1839/0, 4-5=-1161/4, 5-6=0/396, 6-7=0/392, 7-8=-1163/7, 8-10=-1857/0 29-30=-242/236, 28-29=-53/1602, BOT CHORD 26-28=-64/1605. 22-26=0/3601. 7) 20-22=0/4130, 18-20=0/4147, 14-18=0/3638, 4-5, 7-8 13-14=0/2699, 12-13=-5/1597, 11-12=-14/35, 8) 25-27=-1654/0, 23-25=-2627/0, 21-23=-3233/0, 19-21=-3249/0, 17-19=-2741/0, 16-17=-1759/0, 9) 15-16=-689/343 WEBS 27-28=0/97, 4-27=0/1113, 13-15=0/848, 8-15=0/1085, 5-31=-1551/0, 7-31=-1551/0, 6-31=0/138, 10-12=0/1327, 3-27=-281/81, 3-29=-681/0, 27-29=-438/246, 2-29=0/1328, 9-12=-715/0, 12-15=-525/292, 9-15=-278/107, 26-27=0/1669, 25-26=-767/0, 24-25=0/1137, 23-24=-503/0, 22-23=0/610, 21-22=-235/0, 20-21=-121/136, 19-20=-21/92, 18-19=-570/0, 17-18=0/303, 14-17=-1158/0, 14-16=0/526, 13-16=-1673/0

2x6 SP 2400F 2.0E *Except* 1-3.9-10:2x6 SP

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -0-9-10 to 2-2-6, Zone1 2-2-6 to 13-6-6, Zone2 13-6-6 to 17-9-5, Zone1 17-9-5 to 25-8-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 All plates are 3x4 MT20 unless otherwise indicated.
- All plates are 3x4 with 20 unless otherwise indicated.
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (10.0 psf) on member(s). 5-31, 7-31, 4-5, 7-8
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 21-23, 19-21, 17-19, 16-17, 15-16
- 9) Bearings are assumed to be: Joint 30 SP No.2 , Joint 11 SP No.1 .
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Attic room checked for L/360 deflection.
- LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	B05	Attic	2	1	Job Reference (optional)	136050258

Run: 8 73 S. Dec. 5 2024 Print: 8 730 S.Dec. 5 2024 MiTek Industries. Inc. Tue, Ian 14 09:19:54 ID:7daeWxn9chBxyQJZmm0TZAzx8BU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



		5-2-8	52	10			10				
1	2-9-0	5-0-12	9-0-14	11-3-9	13-4-7 ₁ 15-	5-6,17-6-5	19-5-8	21-11-0	24-4-8	1	
Г	2-9-0	2-3-12	1-11-3	2-0-15	2-0-15'2-0	-15 2-0-15	1-11-3	2-3-12	2-5-8	i .	
Scale = 1:81.5		0-1-12	0-1	-12			0-1	-12			
Plate Offsets (X, Y): [2:0-2-14.0-2-0]. [3:0-4-0.0-4-8]. [4:0-6-5.8	Edael. [5	:0-2-1.0-2 ¹ 01.1	7.0-2-1.0	-2-01. [8:	:0-6-5.Eda	e]. [9:0-4-0	.0-4-81.	[15:0-5-	8.0-4-41.	[24:0-2-12.0-3-0]. [27	(:0-2-8.0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.32	19-21	>905	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.57	19-21	>510	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Attic	-0.16	15-27	>999	360	Weight: 230 lb	FT = 20%

LUMBER TOP CHORD

WFBS

JOINTS

No.2

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- BOT CHORD 2x4 SP No.2 *Except* 24-11:2x4 SP No.1 2) 2x4 SP No.2 BRACING Structural wood sheathing directly applied, TOP CHORD except end verticals. BOT CHORD Rigid ceiling directly applied. 1 Brace at Jt(s): 31. 25, 23, 21, 19, 17, 16 3) **REACTIONS** (size) 11= Mechanical, 30=0-3-8 Max Horiz 30=269 (LC 11) Max Grav 11=1662 (LC 19), 30=1765 (LC 18) 4)

2x6 SP 2400F 2.0E *Except* 1-3.9-10:2x6 SP

- FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 10-11=-1627/0, 2-30=-1733/0, 1-2=0/82, 2-4=-1796/0, 4-5=-1141/8, 5-6=0/380, 6-7=0/375, 7-8=-1144/10, 8-10=-1819/0 29-30=-244/235, 28-29=-47/1653, BOT CHORD 26-28=-58/1659. 22-26=0/3587. 20-22=0/4086, 18-20=0/4071, 14-18=0/3532, 13-14=0/2531, 12-13=-39/1378, 11-12=-16/35, 25-27=-1702/0, 23-25=-2637/0, 21-23=-3210/0, 19-21=-3195/0, 17-19=-2657/0, 16-17=-1617/0, 15-16=-587/451 WEBS 27-28=0/95, 4-27=0/1079, 13-15=0/891, 8-15=0/1075, 5-31=-1502/0, 7-31=-1502/0, 6-31=0/135, 10-12=0/1289, 3-27=-294/78, 3-29=-644/0, 27-29=-482/199, 2-29=0/1310, 9-12=-856/0, 12-15=-473/369, 9-15=-177/134, 26-27=0/1637, 25-26=-751/0, 24-25=0/1104, 23-24=-488/0, 22-23=0/569, 21-22=-216/3, 20-21=-141/115,
 - 19-20=-11/101, 18-19=-609/0, 17-18=0/323, 14-17=-1196/0, 14-16=0/535, 13-16=-1742/0

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -0-9-10 to 2-2-6. Zone1 2-2-6 to 13-6-6. Zone2 13-6-6 to 17-9-5. Zone1 17-9-5 to 25-5-2 zone: cantilever left and right exposed : end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber
- DOL=1.60 plate grip DOL=1.60 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 3x4 MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 5-31, 7-31, 7) 4-5, 7-8
- Bottom chord live load (40.0 psf) and additional bottom 8) chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 21-23, 19-21, 17-19, 16-17, 15-16
- Bearings are assumed to be: Joint 30 SP No.2. 9)
- Refer to girder(s) for truss to truss connections.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Attic room checked for L/360 deflection. LOAD CASE(S) Standard



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	T 00050050
1224-054 with attic	B06	Attic Girder	1	3	Job Reference (optional)	136050259

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:54 ID:f3BqjT?VqjwcZxX_ATK99Tzx89v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Plate Offsets	(X, Y): [2:0-2-14,0-2-0)], [3:0-4-0,0-4-8], [5:	0-2-1,0-2-0	0], [7:0-2-1,0-2	-0], [9:0-4-0,0-4-8],	[15:0-5	-8,0-4-4], [24:	0-2-8,0-	3-0], [27	7:0-2-8,0	-3-0]			
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.79	Vert(LL)	0.18	22-24	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25		BC	0.79	Vert(CT)	-0.36	19-21	>809	180	-		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.21	Horz(CT)	0.05	11	n/a	n/a			
BCDL	10.0	Code	FBC202	23/TPI2014	Matrix-MS	-	Attic	-0.08	15-27	>999	360	Weight: 689 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD JOINTS REACTIONS	2x6 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Brace at Jt(s): 31, 25, 23, 21, 19, 17, 16 (size) 11= Mecl Max Horiz 30=269 (Max Uplift 11=-197 Max Grav 11=2452	hathing directly applie cept end verticals. applied or 6-0-0 oc hanical, 30=0-3-8 LC 7) (LC 8), 30=-237 (LC (LC 15), 30=2599 (L	W ad or 8) N (8) 1)	EBS OTES 3-ply truss to	27-28=-4/111, 4-27 13-15=-283/1590, i 5-31=-2281/417, 7 6-31=-3/173, 10-12 3-27=-667/172, 3-2 27-29=-1056/178, i 9-12=-1217/187, 1: 9-15=-381/179, 26 25-26=-1579/306, i 23-24=-845/165, 2: 21-22=-91/273, 20 19-20=-221/569, 1: 17-18=-398/1158, 14-16=-266/1237, b be connected tog	7=-316/1 8-15=-3 -31=-22 2=-160/2 2-29=-8 2-29=-8 2-15=-6 -27=-48 24-25=- 2-23=-4 -21=-70 8-19=-1 14-17=-1 13-16=-1 ether wi	825, 822, 81/824, 81/417, 2013, 2013, 2013, 2013, 2013, 2014, 81/338, 4/3129, 711/2931, 57/1468, 1/9, 57/1468, 1/9, 201/404, 2943/788, 3199/599 th 10d		 Thi chc * Ti on 3-0 chc 9) Cei 4-5 10) Bot 23- 11) Bea 12) Rei 13) Probes 30 14) Ha 	s truss h ord live lc his truss the botto 6-00 tall ord and a ling dead , 7-8 tom choi ord dead 25, 21-2 arings ar fer to gird vide mea tring plat and 197 oper(s) o	as bee bad not has be om cho by 2-0 uny oth d load rd live load (3, 19-2 e assu der(s) f chanic te capa lb uplin or othe	an designed for a naconcurrent with een designed for rd in all areas wi 0-00 wide will fit er members. (10.0 psf) on me load (40.0 psf) a 5.0 psf) applied 21, 17-19, 16-17 med to be: Joint for truss to truss al connection (b able of withstand ft at joint 11.	a 10.0 psf bottom any other live loads. a live load of 20.0psf here a rectangle between the bottom mber(s). 5-31, 7-31, and additional bottom only to room. 25-27, , 15-16 t 30 SP No.2. connections. y others) of truss to ling 237 lb uplift at joint vice(s) shall be	t
FORCES	(lb) - Maximum Con Tension 10-11=-2414/207, 2 2-4=-2667/260, 4-5: 5-6=-145/604, 6-7=:	npression/Maximum -30=-2565/251, 1-2= -1469/171, -146/599, 7-8=-1474/	:0/82, /171,	Top chords of oc, 2x6 - 2 ro Bottom chor 0-4-0 oc. Web connect	connected as follows ows staggered at 0 ds connected as fo ted as follows: 2x4	vs: 2x4 -9-0 oc. Ilows: 2 - 1 row	- 1 row at 0-9- x4 - 1 row at at 0-9-0 oc.	0	pro lb c 444 sele res	vided su lown and lown and lown at ection of ponsibilit	fficient 374 II 15-5- such o ty of ot	to support cond b up at 11-6-13, 13 on bottom ch connection devic hers.	entrated load(s) 1007 and 621 lb down and lord. The design/ xe(s) is the	
BOT CHORD	6-10=-2/15/2/9 29-30=-257/228, 28 26-28315/2919, 2 20-22=-1473/9164, 14-18=-1230/7205, 12-13=-241/2232, 1 25-27=-3988/552, 2 21-23=-7639/1468, 17-19=-5861/1225, 15-16=-932/343	-29=-309/2906, 2-26=-1139/8030, 18-20=-1530/8649, 13-14=-598/4766, 1-12=-12/19, 3-25=-6400/1109, 19-21=-7207/1525, 16-17=-3422/608,	2) 3) 4)	All loads are except if not CASE(S) se provided to d unless other Unbalanced this design. Wind: ASCE Vasd=101m B=45ft; L=22 MWFRS (dir end vertical	considered equally ed as front (F) or b ction. Ply to ply cor distribute only loads wise indicated. roof live loads hav 7-22; Vult=130mp ph; TCDL=6.0psf; f 4ft; eave=4ft; Cat. I ectional); cantileve left and right expos	y applie ack (B) innection s noted e been o h (3-sec BCDL=6 l; Exp B r left an ed; Lun	d to all plies, face in the LC s have been as (F) or (B), considered for cond gust) 6.0psf; h=15ft; 5.enclosed; d right expose ber DOL=1.6	PAD r ed ; 0	15) Atti	c room c	:hecke	d tor L/360 defle	ction.	

plate grip DOL=1.60 Building Designer / Project engineer responsible for 5) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. 6) All plates are 3x4 MT20 unless otherwise indicated.

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	B06	Attic Girder	1	3	Job Reference (optional)	T36050259
Mayo Truss Company, Inc., May	o, FL - 32066,	Run: 8.73 S Dec 5	2024 Print: 8.	730 S Dec 5	2024 MiTek Industries, Inc. Tue Jan 14 09:19:54	Page: 2

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:54 ID:f3BqjT?VqjwcZxX_ATK99Tzx89v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

- LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.25,
 - Plate Increase=1.25

Uniform Loads (lb/ft)

- Vert: 11-30=-20, 16-27=-30, 15-16=-30, 5-31=-20, 7-31=-20, 1-2=-60, 2-4=-60, 4-5=-80, 5-6=-60, 6-7=-60, 7-8=-80, 8-10=-60

Concentrated Loads (lb)

Vert: 32=-828 (F), 33=-325 (F)



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	C01	Half Hip Girder	1	2	Job Reference (optional)	T36050260

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:54 ID:TpnK6OoWNY_3N34?fPhlrkzx7DV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

-															
Loa	ading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCI	LL (roof)	20.0)	Plate Grip DOL	1.25		TC	0.64	Vert(LL)	-0.07	11-12	>999	240	MT20	244/190
TCI	DL	10.0)	Lumber DOL	1.25		BC	0.53	Vert(CT)	-0.15	11-12	>999	180		
BCI	LL	0.0)*	Rep Stress Incr	NO		WB	0.87	Horz(CT)	0.04	9	n/a	n/a		
BCI	DL	10.0)	Code	FBC20	23/TPI2014	Matrix-MS							Weight: 341 lb	FT = 20%
							7 00 14 400								
LUI	MBER				4	Wind: ASCE	7-22; Vult=130mp	n (3-sec	cond gust)						
TO	P CHORD	2x4 SP No.2				Vasd=101mp	on; TCDL=6.0pst; I		.upsr; n=15tt;						
BO	T CHORD	2x4 SP No.2					nt; eave=4nt; Cat. I	I; EXP B	; Enclosed;						
WE	BS	2x4 SP No.2				WWFRS (all	ectional); cantileve	er leit an		ed ;					
SLI	DER	Left 2x6 SP No.2	1-	·6-0		end vertical i	en and right expos	ed; Lun	iber DOL=1.6	50					
BR/	ACING				E	Plate grip DC	JL=1.00 ignor / Droiget ong	incor ro	ononoible for						
TO	P CHORD	Structural wood	sheat	thing directly applied	or 5	verifying app	lied roof live load s	shown c	overs rain loa	ding					
BO.		Pigid ceiling dire	ctly a	epi enu venicais.		requirements	s specific to the use	e of this	truss compor	nent.					
ЪО	I CHORD	bracing	cuy a		6	Provide adec	quate drainage to p	prevent	water ponding	j .					
RE/	ACTIONS	(size) 2=0-3-	-8, 9=	=0-4-0	7	This truss ha	is been designed f	or a 10.) psf bottom						
		Max Horiz 2=209	(LC	7)		chord live loa	ad nonconcurrent v	with any	other live loa	ds.					
		Max Uplift 2=-38	7 (LC	(LC 5)	8	inis truss r	ias been designed	IOF A IIV		psi					
		Max Grav 2=249	1 (LC	C 13), 9=2630 (LC 13	3)		n choro in all areas	s where	a rectangle	~ ~ ~					
FOI	RCES	(lb) - Maximum (Comp	ression/Maximum	,	chord and ar	by 2-00-00 wide wi	with BC							
		Tension	Joinp		a		are assumed to be	SP No	2 - 10.0p3i	•					
то	P CHORD	1-2=0/77, 2-4=-3	074/4	492, 4-5=-2999/519,	1) Provide mec	hanical connection	(by oth	ere) of trues t	0					
		5-6=-2872/443.6	5-8=-2	2872/443. 8-9=-330/	121 '	bearing plate	canable of withst	anding 3	15 lb unlift at	ioint					1
BO	T CHORD	2-12=-455/2269.	10-1	2=-462/2360.		9 and 387 lb	unlift at joint 2	anding c	no ib upint ut	John				111 1110	1111
		9-10=-308/2154		,	1	1) "NAILED" ind	dicates 3-10d (0.14	48"x3") o	or 3-12d					ULIUS	LEF
WE	BS	5-12=-100/751, 5	5-11=	-17/811, 6-11=-816/	299,	(0.148"x3.25	") toe-nails per ND	S auidli	nes.				S.	CEA	10.11
		7-11=-199/1062,	7-10	=0/570, 7-9=-2980/3	374, 1	2) Hanger(s) or	other connection	device(s) shall be				5		0 F
		4-12=-87/223				provided suff	ficient to support co	oncentra	, ated load(s) 2	17			2	A 100 000	
NO	TES					b down and	121 lb up at 7-0-0	on top	chord, and 53	30 lb		-		140 34	869
1)	2-ply truss	s to be connected to	oaeth	er with 10d		down and 22	0 lb up at 7-0-0 oi	n botton	chord. The				*:		/ :★ Ξ
.,	(0.131"x3") nails as follows:	- J			design/selec	tion of such conne	ction de	vice(s) is the				:	J A ★	
	Top chord	s connected as foll	ows:	2x4 - 1 row at 0-9-0		responsibility	of others.					-	ט:	HAN I INI	
	oc.				L	OAD CASE(S)	Standard						D	POULAHIA	The Muis
	Bottom ch	ords connected as	follov	ws: 2x4 - 1 row at	1	Dead + Roo	of Live (balanced):	Lumber	Increase=1.2	25,			10		.415
	0-9-0 oc.					Plate Increa	ase=1.25			,			26		01:20
	Web conn	ected as follows: 2	x4 - 1	1 row at 0-9-0 oc.		Uniform Loa	ads (lb/ft)						1	OR OR	GN
2)	All loads a	are considered equa	ally a	pplied to all plies,		Vert: 1-5:	=-60, 5-8=-60, 9-13	3=-20						SIGNA	ENIN
	except if n	oted as front (F) or	back	(B) face in the LOA	D	Concentrate	ed Loads (lb)							UNA	L'IIII
	CASE(S)	section. Ply to ply c	onne	ections have been		Vert: 5=-	154 (B), 12=-486 (B), 17=·	117 (B), 18=-	117					in the second se
	provided to	o distribute only loa	ads n	oted as (F) or (B),		(B), 19=-	117 (B), 20=-117 (B), 21=	117 (B), 23=	-117		J	alius Lo	ee PE No. 34869	
	unless oth	erwise indicated.				(B), 24=-	117 (B), 25=-117 (B), 26=	117 (B), 27=	-63		M	i Tek Ii	ic. DBA MiTek USA	A FL Cert 6634
3)	Unbalance	ed roof live loads ha	ave b	een considered for		(B), 29=-	63 (B), 30=-63 (B)	, 31=-63	(B), 32=-63	(B),			0043 SV	vingley Klage Rd. C	nesterneta, MO 0501/

33=-63 (B), 34=-63 (B), 36=-63 (B), 37=-63 (B)

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

January 14,2025



Date:

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	C02	Half Hip	1	1	Job Reference (optional)	T36050261

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:54 ID:vI4RecIVAdi2c5fWFP96U5zx7G8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.8

Plate Offsets (X, Y): [2:Edge,0-0-0], [5:0-6-4,0-2-0], [7:0-2-8,0-3-0], [11:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.41	Vert(LL)	-0.06	11-12	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25		BC	0.56	Vert(CT)	-0.11	11-12	>999	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.53	Horz(CT)	0.04	9	n/a	n/a			
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS							Weight: 193 lb	FT = 20%	
LUMBER TOP CHORD 30T CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Left 2x6 SP No.2 1 Structural wood shea except end verticals. Rigid ceiling directly 1 Row at midpt (size) 2=0-3-8, 9 Max Horiz 2=259 (LC Max Uplift 2=-45 (LC Max Grav 2=1329 (L		4) 5) d, 6) 7) 8)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings Provide mec bearing plate 9 and 45 lb o This truss de structural wo chord and 1/ the bottom c	is been designed for ad nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will by other members, are assumed to be hanical connection is capable of withsta uplift at joint 2. sign requires that a od sheathing be ap 2" gypsum sheetro hord. Standard	or a 10.0 vith any for a liv where l fit betw with BC SP No. (by oth a minim oplied di ck be ap) psf bottom other live loa e load of 20.0 a rectangle veen the bottu DL = 10.0psf 2. ers) of truss t 4 lb uplift at j um of 7/16" rectly to the t oplied directly	ds. Dpsf om o oint top / to						
FORCES	(lb) - Maximum Com Tension	pression/Maximum			etandara									
TOP CHORD	1-2=0/77, 2-4=-1455 5-6=-1013/103. 6-8=	/24, 4-5=-1261/89, -738/124, 8-9=-141/4	18										In.	
BOT CHORD	2-13=-278/1135, 12- 10-12=-191/1048, 9-	13=-249/1135, 10=-114/725										ULIUS	LEF	
WEBS	4-12=-228/80, 5-12= 4-13=0/128, 6-11=0/ 6-10=-537/64, 7-10=	0/389, 7-9=-1226/65 185, 5-11=-19/209, 0/699	,								S. S	CEN	SE.	
NOTES											1	34	509	-
1) Wind: AS0 Vasd=101 B=45ft; L=	CE 7-22; Vult=130mph mph; TCDL=6.0psf; B(=26ft; eave=4ft; Cat. II;	(3-second gust) CDL=6.0psf; h=15ft; Exp B; Enclosed;									*			

Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 26-1-12 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

 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

3) Provide adequate drainage to prevent water ponding.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

January 14,2025

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MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

minin

Julius Lee PE No. 34869

Date:

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	C03	Half Hip	1	1	Job Reference (optional)	T36050262

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55 ID:kSRiufpGmTSCK07gcgGWkMzx7G2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.6

Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-2-8,0-3-0], [5:0-6-4,0-2-0], [8:Edge,0-1-8], [10:0-2-8,0-3-0]

Loading	(psf) S	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0 F	Plate Grip DOL	1.25		TC	0.66	Vert(LL)	-0.13	8-9	>999	240	MT20	244/190	
TCDL	10.0 L	Lumber DOL	1.25		BC	0.70	Vert(CT)	-0.22	8-9	>999	180			
BCLL	0.0* F	Rep Stress Incr	YES		WB	0.33	Horz(CT)	0.03	8	n/a	n/a			
BCDL	10.0 0	Code	FBC202	3/TPI2014	Matrix-AS							Weight: 186 lb	FT = 20%	
LUMBER TOP CHORD 30T CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Left 2x6 SP No.2 1-6 Structural wood sheatt except end verticals. Rigid ceiling directly ag 1 Row at midpt 7- (size) 2=0-3-8, 8= Max Horiz 2=309 (LC 1 Max Uplift 2=-43 (LC 1) Max Grav 2=1321 (LC	6-0 hing directly applied -8, 5-9, 6-9 0-4-0 11) -2), 8=-42 (LC 9) : 17), 8=1254 (LC 1	5) 6) 7) 3, 8) LO 7)	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Provide mec bearing plate 8 and 43 lb u This truss de structural wo chord and 1/ the bottom cl DAD CASE(S)	has been designe in chord in all are by 2-00-00 wide v by other member are assumed to I hanical connection of capable of with: polifit at joint 2. sign requires that od sheathing be 2" gypsum sheet hord. Standard	ed for a livv as where will fit betw s, with BC be SP No on (by oth standing 4 at a minimi applied di trock be ap	e load of 20. a rectangle reen the bott DL = 10.0ps 2 . ers) of truss i 2 lb uplift at j um of 7/16" rectly to the oplied directly	Opsf om f. to joint top y to						
FORCES	(lb) - Maximum Compr Tension	ression/Maximum												
TOP CHORD	1-2=0/77, 2-5=-1435/1 6-7=-745/131, 7-8=-10	11, 5-6=-745/131,)93/112										mun	In.	
BOT CHORD	2-11=-336/1137, 9-11= 8-9=-124/145	=-279/1136,										ULIUS	LEE	
NEBS	4 11_0/174 4 10_ 227	7/09 5 10-0/522											· · · · · · · · · · · · · · · · · · ·	

WEBS 4-11=0/174, 4-10=-337/98, 5-10=0/532, 5-9=-212/99, 6-9=-520/120, 7-9=-97/1185

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 26-1-12 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NO 34869 HO 34869 HO 34869 HO ALENGININ

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	C04	Нір	1	1	Job Reference (optional)	136050263

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55 ID:1oMMM2vf6cLCf590WeuAWqzx7Fx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:72.5

Plate Offsets (X, Y): [1:Edge,0-0-0], [3:0-2-8,0-3-0], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [7:0-1-0,0-1-12], [11:0-2-8,0-3	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	1.25	TC	0.35	Vert(LL)	-0.07	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.14	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 220 lb	FT = 20%
					_							

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-11, 6-9, 7-8, 5-10, 4-10
REACTIONS	(size) 1=0-3-8, 8=0-4-0
	Max Horiz 1=300 (LC 11)
	Max Uplift 8=-3 (LC 12)
	Max Grav 1=1247 (LC 17), 8=1257 (LC 17)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-4=-1499/158, 4-5=-656/163, 5-6=-656/163,
	6-7=-663/179, 7-8=-1159/74
BOT CHORD	1-12=-299/1213, 10-12=-216/1210,
	9-10=-102/458, 8-9=-103/116
WEBS	3-12=0/333, 3-11=-549/109, 4-11=-5/610,
	6-10=-47/693, 6-9=-514/126, 7-9=-52/842,
	5-10=-271/49, 4-10=-306/51

- NOTES
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 13-0-0, Zone2 13-0-0 to 17-3-13, Zone1 17-3-13 to 21-8-0, Zone3 21-8-0 to 26-1-12 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

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 7) All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	C05	Piggyback Base	1	1	Job Reference (optional)	T36050264

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55

3x8=

23-0-11

5-8-11





Scale = 1:65.6

NOTES

this design.

DOL=1.60

1)

2)

5-10-8 Plate Offsets (X, Y): [1:Edge,0-0-0], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [7:0-1-0,0-1-12], [11:0-2-8,0-3-0]

5-10-8

1.5x4 **I**

11-5-9

5-7-0

4x6 II

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.42	Vert(LL)	-0.07	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.11	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 207 lb	FT = 20%
UMBER 3) Building Designer / Project engineer responsible for												

17-4-0

5-10-7

5x5=

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins
	(6-0-0 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-10, 5-10, 6-9, 7-8
REACTIONS	(size) 1= Mechanical, 8=0-4-0
	Max Horiz 1=274 (LC 11)
	Max Uplift 8=-3 (LC 12)
	Max Grav 1=1200 (LC 17), 8=1217 (LC 17)
FORCES	(Ib) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-3=-1450/70, 3-4=-1139/136, 4-5=-738/143,
	5-6=-738/143, 6-7=-542/178, 7-8=-1183/52
BOT CHORD	1-12=-286/1163, 10-12=-223/1163,
	9-10=-99/368, 8-9=-107/118
WEBS	3-12=0/204, 3-11=-405/100, 4-11=0/527,
	4-10=-178/52, 5-10=-394/75, 6-10=-51/832,
	6-9=-663/149, 7-9=-68/934

Unbalanced roof live loads have been considered for

Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1

right exposed:C-C for members and forces & MWFRS

Wind: ASCE 7-22; Vult=130mph (3-second gust)

15-8-7 to 23-2-7, Zone3 23-2-7 to 26-1-12 zone; cantilever left and right exposed ; end vertical left and

for reactions shown; Lumber DOL=1.60 plate grip

- verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding. 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 7)
- Bearings are assumed to be: , Joint 8 SP No.2 . 8)
- Refer to girder(s) for truss to truss connections. 9) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 3 lb uplift at joint 8.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



3x4 u

3x4=

26-3-8

3-2-13

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	C06	Piggyback Base	1	1	Job Reference (optional)	136050265

Run 8 73 S. Dec. 5 2024 Print: 8 730 S.Dec. 5 2024 MiTek Industries. Inc. Tue Jan 14 09:19:55 ID:Rp2Rdd28A39aEXz34fFSpjzx8Zg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Plate Offsets (X, Y): [4:0-4-0,0-1-4], [6:0-6-4,0-2-0], [7:0-1-0,0-1-12], [13:0-2-12,0-2-0]

7-8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.07	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.13	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 238 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-4 max.): 1-2, 4-6.
BOT CHORD	Rigid ceiling directly applied. Except:
1 Row at midp	ot 3-13
WEBS	1 Row at midpt 4-11, 4-10, 5-10, 6-9, 7-8
REACTIONS	(size) 8=0-4-0, 15= Mechanical
	Max Horiz 15=262 (LC 11)
	Max Uplift 8=-2 (LC 12)
	Max Grav 8=1203 (LC 17), 15=1160 (LC 17)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-15=-1089/73, 1-2=-1303/43, 2-3=-1331/95,
	3-4=-1297/177, 4-5=-742/156, 5-6=-742/156,
	6-7=-544/185, 7-8=-1169/75
BOT CHORD	14-15=-285/289, 13-14=-273/1435,
	12-13=-42/0, 3-13=-212/140, 11-12=-45/36,
	9-11=-163/849, 8-9=-106/118
WEBS	1-14=-67/1584, 2-14=-791/112,
	2-13=-4/2//6, 11-13=-13//954,
	4-13=-229/1011, 4-11=-252/126,
	4 - 10 = -100/40, $5 - 10 = -394/94$, $6 - 10 = -06/815$,
	0-9=-049/100, 1-9=-01/922

Scale = 1:75.4

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

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1 15-8-7 to 23-2-7, Zone3 23-2-7 to 26-1-12 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

- Building Designer / Project engineer responsible for 3) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding. 4)
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections. 8)
- Provide mechanical connection (by others) of truss to 9)
- bearing plate capable of withstanding 2 lb uplift at joint 8.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	C07	Piggyback Base	1	1	Job Reference (optional)	136050266

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55 ID:Rp2Rdd28A39aEXz34fFSpjzx8Zg-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f



Plate Offsets (X, Y): [4:0-4-0,0-1-4], [6:0-6-4,0-2-0], [7:0-1-0,0-1-12], [13:0-3-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.07	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.15	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 247 lb	FT = 20%
LIMBED 2) Wind: ASCE 7-22: Vult=130mph (3-second gust)												

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-5 max.): 1-2, 4-6.
BOT CHORD	Rigid ceiling directly applied. Except:
1 Row at midp	ot 3-13
WEBS	1 Row at midpt 4-11, 4-10, 5-10, 6-9, 7-8
REACTIONS	(size) 8=0-4-0, 15= Mechanical
	Max Horiz 15=258 (LC 11)
	Max Grav 8=1201 (LC 17), 15=1159 (LC 18)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-15=-1041/102, 1-2=-1146/68,
	2-3=-1298/97, 3-4=-1229/146, 4-5=-745/142,
	5-6=-745/142, 6-7=-545/179, 7-8=-1167/77
BOT CHORD	14-15=-268/292, 13-14=-248/1244,
	12-13=-36/0, 3-13=-44/59, 11-12=-23/87,
	9-11=-167/847, 8-9=-106/118
WEBS	1-14=-82/1386, 2-14=-632/146,
	2-13=-535/87, 11-13=-167/873,
	4-13=-220/896, 4-11=-235/139,
	4-10=-157/50, 5-10=-392/93, 6-10=-69/813,
	6-9=-648/168, 7-9=-90/921

NOTES

Scale = 1:75.4

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1 15-8-7 to 23-2-7, Zone3 23-2-7 to 26-1-12 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 7) Bearings are assumed to be: , Joint 8 SP No.2.
- Refer to girder(s) for truss to truss connections.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	Holloway				
1224-054 with attic	C08	Piggyback Base	1	1	Job Reference (optional)	T36050267			





Plate Offsets (X, Y): [5:0-4-0,0-1-4], [7:0-6-4,0-2-0], [8:0-1-0,0-1-12], [14:0-3-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.06	11-12	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.11	11-12	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	9	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 269 lb	FT = 20%	
LIMBED 2) Wind: ASCE 7-22: Vult=130mph (3-second gust)													

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except end verticals, and 2-0-0 oc purlins
	(5-8-7 max.): 1-3, 5-7.
BOT CHORD	Rigid ceiling directly applied. Except:
1 Row at midpt	4-14
WEBS	1 Row at midpt 5-12, 5-11, 6-11, 7-10, 8-9
REACTIONS (size) 9=0-4-0, 17= Mechanical
1	Max Horiz 17=256 (LC 11)
1	Max Grav 9=1200 (LC 17), 17=1164 (LC 18)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-17=-1096/87, 1-2=-671/92, 2-3=-1036/77,
	3-4=-1257/105, 4-5=-1230/138,
	5-6=-748/133, 6-7=-748/133, 7-8=-546/175,
	8-9=-1166/76
BOT CHORD	16-17=-283/311, 15-16=-241/744,
	14-15=-220/1120, 13-14=-30/0, 4-14=-33/38, 12 12- 26/97, 10 12- 164/945
	9-10106/118
WEBS	2-15=-69/729 3-15=-476/94 3-14=-498/97
WEB0	12-14=-161/871, 5-14=-208/897.
	5-12=-230/136, 5-11=-156/48, 6-11=-392/93,
	7-11=-67/811, 7-10=-647/167, 8-10=-88/920,
	2-16=-861/143, 1-16=-82/1190

NOTES

Scale = 1:77.2

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

- Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1 15-8-7 to 23-2-7, Zone3 23-2-7 to 26-1-12 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
- Building Designer / Project engineer responsible for 3) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearings are assumed to be: , Joint 9 SP No.2 . 8)
- Refer to girder(s) for truss to truss connections. This truss design requires that a minimum of 7/16" 9)
- structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Page: 1



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only using the mathematical network of the intervention of the in

Job	Truss	Truss Type	Qty	Ply	Holloway				
1224-054 with attic	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	136050268			

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55 ID:SGkUzmNBN5iulrUTfG4nSZzx7E1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Pa



Scale = 1:47.8

Plate Offsets (X, Y): [8:Edge,0-5-12]

Loading TCLL (roof) TCDL BCLL		(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 NO		CSI TC BC WB	0.70 0.96 0.38	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.11 -0.16 -0.01	(loc) 6-7 6-7	l/defl >999 >720	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL		10.0	Code	FBC20	23/TPI2014	Matrix-MS	0.00	11012(01)	0.01	-	n/a	n/a	Weight: 57 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Structura 6-0-0 oc Rigid ceil bracing. (size) Max Horiz Max Uplift Max Grav	0.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 1	athing directly applie cept end verticals. applied or 6-0-0 oc nical, 5= Mechanica 2 8) 5 8, 5=-232 (LC 8), C 8) 2 1), 5=489 (LC 13),	5 7 ed or 8 9 1, L	 Bearings are Refer to girde Provide mecl bearing plate 4.1 lb uplift "NAILED" ind (0.148"x3.25 In the LOAD of the truss a OAD CASE(S) Dead + Roo Plate Increa Uniform Loo Vert: 1-2: Concentrate 	assumed to be: , , er(s) for truss to tru- nanical connection capable of withsta at joint 4 and 232 dicates 3-10d (0.14 ") toe-nails per NDD CASE(S) section, re noted as front (f Standard of Live (balanced): ise=1.25 ads (lb/ft) =-60, 2-4=-60, 5-8= ad Loads (lb)	Joint 8 S uss con (by oth unding 3 lb uplift 8"x3") c S guidli loads ap F) or ba Lumber	SP No.2 . nections. ers) of truss t :20 lb uplift at at joint 5. or 2-12d nes. oplied to the f ck (B). Increase=1.	to t joint face 25,					
FORCES	(lb) - Max	8=705 (LC timum Com	C 13) pression/Maximum		Vert: 9=1 11=-277	28 (F=64, B=64), 1 (F=-138, B=-138)	10=-75 ((F=-38, B=-38	8),					
TOP CHORD	Tension 2-8=-688 3-4=-88/4	/248, 1-2=0 18	/91, 2-3=-639/252,										ILIUS	LEDIN
BOT CHORD WEBS NOTES	7-8=-363 2-7=-221	/116, 6-7=- /736, 3-7=-	300/525, 5-6=0/0 307/385, 3-6=-649/3	371								S. S	CEN	SE
 Wind: ASI Vasd=101 B=45ft; L= MWFRS (end vertic plate grip Building D verifying a requireme This truss chord live * This trus on the bol 3-06-00 ta chord and 	CE 7-22; Vu Imph; TCDL =24ft; eave=; (directional); al left and ri DOL=1.60 Designer / Pi applied roof ents specific has been d load nonco ss has been ttom chord i all by 2-00-0 d any other r	It=130mph =6.0psf; B0 e4ft; Cat. II; cantilever roject engin live load sh to the use lesigned for ncurrent wi designed fin n all areas 0 wide will nembers.	(3-second gust) CDL=6.0psf; h=15ft; Exp B; Enclosed; left and right exposed d; Lumber DOL=1.6 where responsible for iown covers rain loar of this truss compon a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto	ed ; 0 ding ient. ds. ipsf							л. М 10 D	the second secon	PE PE No. 34809 Ice. DBA MiTek USA ringley Ridge Rd. C	EL Cert 6634 hesterfield, MO 63017
														January 14,2025

www.tpinst.org) WWW.tpinst.org) WWW.tpinst.org)

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	CJ02	Diagonal Hip Girder	1	1	Job Reference (optional)	136050269

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:56 ID:_LiXKEaDc0jdDliXbdMX6xzx7Dn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61

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

Loading TCLL (roof) TCDL BCLL	(ps 20. 10. 0	sf) .0 .0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 NO		CSI TC BC WB	0.40 0.97 0.71	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.14 -0.24 0.01	(loc) 5-6 5-6 5	l/defl >999 >605 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190	
BCDL	10	.0	Code	FBC202	3/TPI2014	Matrix-MS	0		0101	Ū			Weight: 99 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=1011 B=45ft; L=: MWFRS (c end vertice plate grip ID 2) Building Du verifying al requiremen 3) This truss on the bott 3-06-00 tal chord and 5) Bearings a 6) Refer to gi	2x6 SP No.2 2x4 SP No.1 2x4 SP No.2 Structural wood 6-0-0 oc purlins Rigid ceiling dirr bracing. 1 Row at midpt (size) 5= M Max Horiz 7=27 Max Uplit 5=-33 Max Grav 5=12 (lb) - Maximum Tension 2-7=-807/227, 1 4-5=-197/88 6-7=-224/133, 5 2-6=-145/727, 3 CE 7-22; Vult=130 mph; TCDL=6.0p; 24f; eave=4f; Ca directional); cantild al left and right exp DOL=1.60 esigner / Project 6 pplied roof live loa nts specific to the has been designe load nonconcurre s has been designe tom chord in all ar II by 2-00-00 wide any other membe tre assumed to be rder(s) for truss to	I shea ectly : ectly : c ectly : r (LC 59 (L	athing directly applied ept end verticals. applied or 6-0-0 oc 4-5 5) 5) 5) 7-30 (LC 8) 7-30 (LC 8) 7-30 (LC 14 pression/Maximum (106, 2-4=-897/179, 225/637 (411, 3-5=-753/213 (3-second gust) 5) 20L=6.0psf; h=15ft; Exp 8; Enclosed; eft and right exposed ; Lumber DOL=1.60 ever responsible for own covers rain load of this truss compone a 10.0 psf bottom h any other live load of this truss compone a 10.0 psf bottom h any other live load of 20.0 where a rectangle it between the bottor tr 7 SP No.1. s connections.	7) 8) d or 9) 10) 10) 10) 10 10) 10 10 10 10 10 10 10 10 10 10	Provide mec bearing plate 7 and 359 lb "NAILED" ind NDS guidline Hanger(s) or provided suff lb down and 123 lb up at selection of s responsibility I) In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa Uniform Loa Vert: 1-2: Concentratk Vert: 6=- (B), 14=1 18=-542	hanical connection e capable of withst uplift at joint 5. dicates 2-12d (0.14 as. other connection ficient to support c 91 lb up at 10-10- 11-2-2 on bottom such connection de of others. CASE(S) section, are noted as front (Standard of Live (balanced): ase=1.25 ads (lb/ft) =-60, 2-4=-60, 5-7 ed Loads (lb) 2 (B), 3=-2 (B), 8=1 4 (B), 15=0 (F), 11 (F=-303, B=-239)	h (by oth anding 1 48"x3.25 device(s oncentra 13, and chord. ⁻ evice(s) loads aµ F) or ba Lumber =-20 37 (F), 1 6=-34 (F	ers) of truss 91 lb uplift a ") toe-nails p) shall be tted load(s) 3 304 lb down The design/ is the oplied to the ck (B). Increase=1. 1=-67 (F), 1), 17=-27 (B)	to t joint per 347 a and face .25, 2=-54),		л, М 14 D	the second secon	e PE No. 34809 c. DBA MiTek US2 ingley Ridge Rd. C	LEE 869 60 FL Cert 6634 hesterfield, MO	63017 4,2025
														-	



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	D01	Common Supported Gable	1	1	Job Reference (optional)	T36050270

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:56 ID:mQEP8b4Zjw0fFlwc3R7Npnzx7D7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.7

Plate Offsets (X, Y): [4:0-1-0,0-3-4], [10:0-1-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DE	EFL ir	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28 Ve	ert(LL) n/a	a -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06 Ve	ert(CT) n/a	a -	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10 Ho	orz(CT) 0.00) 12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 124 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2		WEBS	7-17=-179/53, 6-18=- 5-19=-135/140, 4-20=	146/137, -121/106,	i,					
BOT CHORD	2x4 SP No.2			8-16=-144/138, 9-15=	-139/141,	,					
OTHERS	2x4 SP No.2			10-14=-122/107							
SLIDER	Left 2x4 SP No.2	1-6-0, Right 2x4 SP N	o.2 NOTES								
	1-6-0		1) Unbalance	d roof live loads have b	een cons	sidered for					
BRACING	.		this design.		<u> </u>						
TOP CHORD	Structural wood she	eathing directly applied	for 2) Wind: ASC	E 7-22; Vult=130mph (3-second	I gust)					
	6-0-0 oc punins.	/ applied or 10-0-0 oc	B=45ft l =2	4ft eave=2ft Cat II F	xp B. End	closed:					
BOTOHORD	bracing.		MWFRS (d	irectional) and C-C Zo	ne3 zone;	; cantilever					
WEBS	1 Row at midpt	7-17	left and righ	nt exposed ; end vertic	al left and	l right					
REACTIONS	(size) 2=15-8-0	, 12=15-8-0, 14=15-8-	0, exposed;C-	C for members and fo	rces & MV	WFRS for					
	15=15-8-	0, 16=15-8-0, 17=15-8	3-0, reactions sl	nown; Lumber DOL=1.	60 plate g	grip					
	18=15-8-	0, 19=15-8-0, 20=15-8	3-0 DOL=1.60								
	Max Horiz 2=197 (L	C 11)	3) Truss desig	ined for wind loads in t	ne plane (of the truss					
	Max Uplift 2=-11 (LC	C 8), 12=-8 (LC 9), 14	=-47 Unity. For s	rd Industry Gable End	Details as	s applicable					
	(LC 8), 1:	5=-49 (LC 12), 16=-44	or consult of	ualified building desig	ner as per	r ANSI/TPI 1.				IIIIIII	1111.
	12), 10=-	-44 (LC 12), 19=-49 (L -34 (LC 9)	 4) Building De 	signer / Project engine	er respon	nsible for				JUS IUS	15.11
	Max Grav 2=273 (1)	C 1) 12=273 (I C 1)	verifying ap	plied roof live load sho	wn cover	rs rain loading				. JOE	TE III
	14=125 (LC 18), 15=181 (LC 1	8), requiremen	ts specific to the use c	f this trus	s component.			3	CEN	Sp. 4
	16=184 (LC 18), 17=133 (LC 1	2), 5) All plates a	re 1.5x4 MT20 unless	otherwise	e indicated.			5	1 ×	S & E
	18=186 (LC 17), 19=177 (LC 1	7), 6) Gable requ	ires continuous bottom	chord be	earing.				No 34	869 🧯 💈
	20=106 (LC 17)	7) Gable Slud	s spaced at 2-0-0 oc.	o 10 0 pcf	fbottom		-	*		
FORCES	(lb) - Maximum Con	npression/Maximum	chord live l	ad nonconcurrent with	a 10.0 psi	er live loads				*	
		100 4 5 440/404	9) * This truss	has been designed fo	r a live loa	ad of 20.0psf			1		V aja
TOP CHORD	1-2=0/75, 2-4=-169/ 5-6=-110/76, 6-7=-1	/129, 4-5=-118/104, 107/177_7_8=_107/177	on the botto	om chord in all areas w	here a re	ctangle				U KTATE	TA LUES
	8-9=-70/63 9-10=-8	31/55 10-12=-160/98	' 3-06-00 tall	by 2-00-00 wide will fi	t between	n the bottom			= 0		.413
	12-13=0/75		chord and a	any other members.					T	A 4 0 P	DIST
BOT CHORD	2-20=-105/261, 19-2	20=-98/254,	10) All bearings	are assumed to be S	P No.2 .	<i>.</i> .				So	····NO.II
	18-19=-98/254, 17-	18=-98/254,	11) Provide me	cnanical connection (b	y others)	OF TRUSS TO				IN ONA	LEIN
	16-17=-98/254, 15-	16=-98/254,	2 8 lb uplif	te capable of withstaht	atioint 18	8 40 lb uplift				in min	IIIII.
	14-15=-98/254, 12-	14=-103/260	at joint 19	34 lb uplift at joint 20	14 lb uplift	t at joint 16.		J	ulius Le	ee PE No. 34869	
			49 lb uplift a	at joint 15 and 47 lb up	lift at joint	t 14.		N	liTek Iı	nc. DBA MiTek USA	FL Cert 6634
				,	,.			1	6023 Sv	vingley Ridge Rd. C	hesterfield, MO 63017

LOAD CASE(S) Standard

January 14,2025



Date:

Job	Truss	Truss Type		Ply	Holloway				
1224-054 with attic	D02	Common	1	1	Job Reference (optional)	136050271			

7-10-0

3-8-14

<u>-2-0-</u>0

2-0-0

2

Ā

1.5x4 **I**

4-1-2

4-1-2

4-1-2

4-1-2

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:56 ID:mzIFHDUujNIrL_W82akLByzx7Cb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

15-8-0

4-1-2

13

9

4x4 =

15-8-0

4-1-2

11-6-14

3-8-14

4x4= 4

10

3x8=

11-6-14

3-8-14

17-8-0

2-0-0

6x6、

6

7

14

À ĥ

×

1.5x4 **I**



4x6 4x6、 3 5 6x6

7-10-0

3-8-14

1<u>2</u> 12∟

11

4x4=



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

8-11-13

1-1-13

10-2-15

oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
CLL (roof)	20.0	Plate Grip DOL	1.25		тс	0.41	Vert(LL)	-0.01	1 0	>999	240	MT20	244/190	
CDL Í	10.0	Lumber DOL	1.25		BC	0.16	Vert(CT)	-0.02	9-10	>999	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.16	Horz(CT)	0.01	8	n/a	n/a			
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-MS							Weight: 122 lb	FT = 20%	
			4)	This trues he		far a 10 (
	2x4 SP No 2		4)	chord live loa	d nonconcurrent	with anv	other live loa	ids.						
SOT CHORD	2x4 SP No 2		5)	* This truss h	as been designed	d for a liv	e load of 20.0	Opsf						
VEBS	2x4 SP No 2		-,	on the botton	n chord in all area	s where	a rectangle							
	2/11 01 11012			3-06-00 tall b	y 2-00-00 wide wi	ill fit betw	een the bott	om						
OP CHORD	Structural wood shea	athing directly applie	ed or	chord and an	y other members.									
	6-0-0 oc purlins, exc	cept end verticals.	6)	All bearings a	are assumed to be	e SP No.	2.							
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc	7)	Provide mecl	nanical connection	n (by oth	ers) of truss t	to						
	bracing.			bearing plate	capable of withst	anding 5	2 Ib uplift at j	joint						
REACTIONS	(size) 8=0-3-8, 1	2=0-3-8			upilit at joint 8.									
	Max Horiz 12=232 (L	.C 11)	LC	AD CASE(S)	Standard									
	Max Uplift 8=-52 (LC	12), 12=-52 (LC 12)											
	Max Grav 8=744 (LC	C 1), 12=744 (LC 1)												
ORCES	(lb) - Maximum Com	pression/Maximum												
	Tension													
OP CHORD	1-2=0/91, 2-3=-598/8	34, 3-4=-460/162,												
	4-5=-460/139, 5-6=-	598/63, 6-7=0/91,											-	
	2-12=-700/152,0-8=	-700/102 11_0/442 0 10_0/2	76										1111	
SOT CHORD	8-931/143	11=0/442, 9-10=0/3	70,									1 JLIUS	LEDU	
VEBS	4-10=-121/379, 2-11	=-9/395, 6-9=0/395,									N.	CEN	15 M	
	3-10=-201/96, 3-11=	-13/100, 5-10=-201/	/134,								5	. UEN	Sr.	
	5-9=-13/100										S			
OTES											1	NO 348	369	
) Unbalance	ed roof live loads have	been considered for	r							= =	*:		// i* E	
this desigr	٦.									=		1/. 1*		
N/ind· AS(~ 7-22. \/ult=130mph	(3-second quet)								-	-			

2) ASCE 7-2 /ult=130mph (3-second gus Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -2-0-0 to 7-10-0, Zone2 7-10-0 to 12-0-15, Zone1 12-0-15 to 17-8-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

/////III Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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January 14,2025


Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	D03	Roof Special Girder	1	3	Job Reference (optional)	136050272

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:56 ID:0WwxtlDXbosKXC6gZBpQdczx7Bf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:66.2

Plate Offsets (X, Y): [10:Edge,0-2-0]

Except member 5-15 2x4 - 2 rows staggered at 0-7-0 oc.

		(0	0.0.0		001		DEEL		(1)	1/-161	1.74	DI ATEO		
		(psr)	Spacing Blote Crip DOI	2-0-0			0.25			(IOC)		L/0	PLATES	GRIP 244/100	
TCLL (1001)		20.0	Plate Grip DOL	1.20			0.35	Vert(LL)	-0.05	13-14	>999	240	101120	244/190	
PCU		10.0	Lumber DOL Bon Stroop Inor	1.25			0.72		-0.10	13-14	>999	180			
BCDI		10.0	Codo	FRCac	22/TDI2044	Notrix MC	0.49		0.06	10	n/a	n/a	Waight: 407 lb	ET 200/	
BCDL		10.0	Code	FBC2U	23/1712014	Matrix-IMS							Weight. 407 lb	FT = 20%	
LUMBER				2) All loads are										
TOP CHORD	2x4 SP No.	2			except if note	except if noted as front (F) or back (B) face in the LOAD Vert: 15=-3781 (B), 20=-1140 (B), 21									
BOT CHORD	2x6 SP No.	2 *Excep	ot* 17-4,7-12:2x4 SP	No.2	CASE(S) see	ction. Ply to ply con	nection	s have been			22=-163	38 (B)			
WEBS	2x4 SP No.	2			provided to distribute only loads noted as (F) or (B), unless otherwise indicated.										
BRACING															
TOP CHORD	Structural v	vood she	athing directly applie	ed or ^d) Unbalanced	roof live loads have	been	considered to	r						
	6-0-0 oc pu	irlins, ex	cept end verticals.	/) Wind: ASCE	7-22. \/ult=130mph	(3-00)	cond quet)							
BOT CHORD	Rigid ceiling	g directly	applied or 10-0-0 oc	с ⁴	Vasd=101m	r 22, van=100 mpr		Onsf: h=15ft							
	bracing.				B=45ft: L=24	ft: eave=4ft: Cat. II:	Exp B	: Enclosed:							
REACTIONS	(size) 1	0=0-3-8,	19=0-3-8		MWFRS (dir	ectional): cantilever	left an	d right expose	ed :						
	Max Horiz 1	9=213 (L	_C 7)		end vertical l	eft and right expose	ed; Lum	ber DOL=1.6	50						
	Max Grav 1	0=6582	(LC 13), 19=3909 (L	.C 13)	plate grip DOL=1.60										
FORCES	(lb) - Maxim	num Com	pression/Maximum	5	Building Designer / Project engineer responsible for										
	I ension	0 0500			verifying applied roof live load shown covers rain loading										
TOP CHORD	1-2=0/91, 2	-3=-2592	2/0, 3-4=-5631/0,		requirements specific to the use of this truss component.										
	4-3=-3160/0	0, 5-6=-5	104/0, 0-7=-0907/0, 632/0 2-103588/0) –) All plates are	4x6 MI20 unless	otherwi	se indicated.							
	9-10=-6182	0, 0 0= + 2/0	002/0, 2 13= 0000/0	', ') This truss ha	s been designed to	ra 10.0	other live lee	do					100	
BOT CHORD	18-19=-66/3	., o 325. 17-1	8=0/313. 16-17=0/2	32. s) * This truss h	as been designed	for a liv	e load of 20 (us. Inst				11110	1111.	
	4-16=0/303	. 15-16=	0/4285. 14-15=0/491	16.	on the bottor	n chord in all areas	where	a rectande	pai				"ULIUS	LEEM	
	13-14=0/68	20, 12-13	3=0/1514, 7-13=0/27	734,	3-06-00 tall b	v 2-00-00 wide will	fit betv	veen the botto	om				CEN		
	11-12=0/49	9, 10-11=	=0/382		chord and ar	v other members.						5		S	
WEBS	4-15=-669/4	42, 5-15=	=0/6910, 2-18=0/206	7, g) All bearings	are assumed to be	SP No.	2.				5	A 11		
	9-11=0/380	4, 3-16=0	0/2784, 3-18=-3224/	'0, 1) 0) Use MiTek T	HDH26-2 (With 22-	16d na	ils into Girder	. &		-		No 34	869	
	16-18=0/19	26, 8-13=	=0/4093, 8-11=-5027	7/0,	8-16d nails in	nto Truss) or equiva	lent at	7-11-8 from t	he			*:		∧ :★ Ξ	
	11-13=0/34	77, 6-15	=-2687/0, 7-14=-229	07/0,	left end to connect truss(es) to back face of bottom										
	6-14=0/351	3													
NOTES				1	11) Use MiTek HUS26 (With 14-16d nails into Girder &										
 3-ply truss 	to be connec	cted toget	ther with 10d		6-16d nails into Truss) or equivalent spaced at 2-0-0 oc										
(0.131"x3	') nails as follo	ows:			connect truck(s) to host for a bard										
I op chord	is connected a	as follows	s: 2x4 - 1 row at 0-9-	·0 1		s(es) to back face o		n cnord.	bor			11	S	NO N	
UC. Rottom charde connected as follows: 2x6 - 2 rows						otes where hanger is	S III COI	naci with lum	bei.				ONA	EIN	
staggered at 0.5.0 oc. 2x4 1 row at 0.0.0 oc.					UAD CASE(S)	Standard			25				1111	inne.	
Web conn	ected as follo	ws: 2x4 -	1 row at 0-9-0 oc	1	1) Lead + KOOT Live (balanced): Lumber Increase=1.25, Dista harrange=1.25, Julius Lea PE No. 34899										

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Uniform Loads (lb/ft)

13-16=-20, 10-12=-20

Vert: 1-2=-60, 2-5=-60, 5-9=-60, 17-19=-20,

Job	Truss	Truss Type	Qty	Ply	Holloway	T 00050070
1224-054 with attic	D04	Jack-Partial	1	1	Job Reference (optional)	136050273

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:56 ID:VRwgCx0ueSvs?DqgyED_klzx8Zi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:54.9

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.62	Vert(LL)	-0.04	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25		BC	0.26	Vert(CT)	-0.09	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023	3/TPI2014	Matrix-MS							Weight: 58 lb	FT = 20%
LUMBER			5)	Bearings are	assumed to be:	Joint 11 S	SP No.1 .						
TOP CHORD	2x4 SP No.1		6)	Refer to gird	er(s) for truss to	truss coni	nections.						
BOT CHORD	2x4 SP No.1		7)	Provide mec	hanical connectio	on (by othe	ers) of truss	to					
WEBS	2x4 SP No.2			bearing plate	capable of withs	standing 1	76 lb uplift a	t joint					
BRACING				7.									
TOP CHORD	Structural wood shea	athing directly applie	ed or LO	AD CASE(S)	Standard								
	6-0-0 oc purlins, exe	cept end verticals.											
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc											
	bracing.												
REACTIONS	(size) 7= Mecha	nical, 11=0-3-8											
	Max Horiz 11=319 (L	_C 12)											
	Max Uplift 7=-176 (L	C 12)											
	Max Grav 7=318 (LC	C 17), 11=452 (LC 1)										
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	2-11=-448/100, 1-2=	0/91, 2-3=-269/10,											
	3-4=-226/19, 4-5=-3	66/0, 5-6=-130/0											
BOT CHORD	10-11=-27/13, 9-10=	-8/25, 4-9=-271/9,											
	8-9=-217/172, 7-8=0	0/0											110. ·
WEBS	9-11=-295/201, 3-9=	=0/146, 5-9=-72/330	,									2111.111	111.
	5-8=-330/418											ULIUS	LEF
NOTES											SN'	CEA	10
1) Wind: ASCE 7-22; Vult=130mph (3-second gust)											5		OF.
Vasd=101	mph; TCDL=6.0psf; B0	CDL=6.0psf; h=15ft;									·		

- Wind: AGCL 722, Vulte 150mpl(3-second gdat) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown 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 nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	D05	Jack-Closed Girder	1	2	Job Reference (optional)	T36050274

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:56 ID:GzPiug7vlvwkySRCQvMs3_zx8Za-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

L	2-2-4	5-0-8	7-10-0
Γ	2-2-4	2-10-4	2-9-8



Scale = 1:60.9

Plate Offsets (X, Y): [7:0-3-0,0-3-12]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC2023	3/TPI2014	CSI TC BC WB Matrix-MP	0.18 0.47 0.27	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.02	(loc) 6-7 6-7 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 155 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) 2-ply truss (0.131"x3" Top chord oc. Bottom ch staggered Web conn 2) All loads a except if n CASE(S) s provided t unless oth	2x4 SP No.2 2x6 SP No.2 *Excep 2x4 SP No.2 Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 9=238 (LC Max Grav 5=2997 (L (lb) - Maximum Com Tension 1-9=-1942/0, 1-2=-24 3-4=-158/92, 4-5=-74 8-9=0/66, 7-8=0/935 6-7=0/1193, 5-6=0/1 7-9=-285/130, 1-7=0 3-7=0/1801, 3-6=0/2 to be connected toget) nails as follows: s connected as follows: ords connected as follows ords connected as follows at 0-7-0 oc, 2x4 - 1 row ceted as follows: 2x4 - re considered equally oted as front (F) or bac section. Ply to ply conn o distribute only loads to erwise indicated.	** 8-2:2x4 SP No.2 athing directly applied sept end verticals. applied or 10-0-0 oc nical, 9=0-3-8 5 5) C 13), 9=2316 (LC 1- pression/Maximum 365/0, 2-3=-2904/0, 3/80 (1991, 3-5=-2418/0, 402 her with 10d : 2x4 - 1 row at 0-9-0 pws: 2x6 - 2 rows w at 0-9-0 oc. 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LOA ections have been noted as (F) or (B),	3) I or 4) 5) 4) 6) 7) 8) 9) 10) 11) LO 1) ND	Wind: ASCE Vasd=101mp B=45ft; L=24 MWFRS (dim end vertical I plate grip DC Building Des verifying app requirements This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Bearings are Refer to girdl Use MiTek H 6-16d nails ir left end to co chord. Use MiTek JI nails into Tru left end to co chord. Use MiTek JI nails into Tru starting at 3-i truss(es) to b Fill all nail ho AD CASE(S) Dead + Roo Plate Increas Uniform Loa Vert: 1-4: Concentrate Vert: 10= 13=-1020	7-22; Vult=130mph bh; TCDL=6.0psf; Bi ft; eave=4ft; Cat. II; ectional); cantilever eft and right expose pl_=1.60 igner / Project engir lied roof live load sh a specific to the use s been designed fo an chord in all areas by 2-00-00 wide will by other members. assumed to be: Joi er(s) for truss to tru US26 (With 14-16d to Truss) or equivalent sp B-12 from the left er tack face of bottom les where hanger is Standard of Live (balanced): L ase=1.25 ads (lb)ft) =-60, 8-9=-20, 5-7=: ed Loads (lb) -1026 (B), 11=-1020 0 (B)	(3-secc CDL=6 Exp B left and d; Lurr heer re- own cc of this any or a liv where fit betw int 9 SF ss coni nails int lent at ack fanct ack fanct -20 0 (B), 1	sond gust) .0psf; h=15ft; Enclosed; d right exposed; d right exposed; ber DOL=1.6 sponsible for overs rain loa truss compor other live load e load of 20.0 a rectangle veen the bottor P No.2 . nections. nto Girder & 1-8-12 from ti ze-of bottom o Girder & 4	ed ; i0 ding nent. ds.)psf om he 10d ax. sect ber. 25,			* PRO		

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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.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	E01	Common Supported Gable	1	1	Job Reference (optional)	T36050275

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:57 ID:MTaH8ZbRHR6TMxM5Y2Amsrzx5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Scale = 1:52.7

Plate Offsets (X, Y): [4:0-1-0,0-3-4], [10:0-1-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roo	f) 20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 124 lb	FT = 20%
			WEDO	7 47 470/50 6 4	0 440/4	07						
LUMBER			WEB5	7-17=-179/53, 0-1 5 10= 125/140 4	20- 121	37,						
TOP CHO				9 16 1/1/129 0	15- 120	100,						
BOLCHO	RD 2X4 SP N0.2			$10_{-14} = 122/107$	-15=-159/	141,						
SUDER	2X4 SP N0.2	1-6-0 Pight 2v4 SP N		10 14= 122/107								
SLIDER	1-6-0	1-0-0, Right 2x4 3F N	1) Unbalance	d roof live loads ha	ve heen i	considered fo	r					
BRACING	100		this design		ve been		1					
TOP CHO	RD Structural wood she	eathing directly applied	for 2) Wind: ASC	E 7-22: Vult=130m	ph (3-sec	ond aust)						
	6-0-0 oc purlins.	an out of approv	Vasd=101r	nph; TCDL=6.0psf;	BCDL=6	.0psf; h=15ft;						
BOT CHO	RD Rigid ceiling directly	y applied or 10-0-0 oc	B=45ft; L=2	24ft; eave=2ft; Cat.	II; Exp B	; Enclosed;						
	bracing.		MWFRS (c	irectional) and C-C	Cone3 z	one; cantileve	er					
WEBS	1 Row at midpt	7-17	left and rig	nt exposed ; end ve	ertical left	and right						
REACTIO	NS (size) 2=15-8-0	, 12=15-8-0, 14=15-8-	0, exposed;C	-C for members an	d forces a	& MWFRS for	•					
	15=15-8-	0, 16=15-8-0, 17=15-8	3-0, reactions s	hown; Lumber DOI	L=1.60 pl	ate grip						
	18=15-8-	0, 19=15-8-0, 20=15-8	3-0 DOL=1.60	wood for wind loodo	اممائما							
	Max Horiz 2=-197 (I	LC 10)	3) Truss desig	tude expected to wi	in the pl	ane of the tru	SS \					
	Max Uplift 2=-11 (L0	C 8), 12=-8 (LC 9), 14=	=-47 Unity. FUI a	ard Industry Gable I	End Deta	ils as applicat), hle					
	(LC 8), 1	5=-49 (LC 12), 16=-44	CLC or consult of	pualified building de	esigner a	s per ANSI/TE	기 (기) 기 1				IIIIII	111.
	12), 18=-	·44 (LC 12), 19=-49 (LC 24 (LC 0)	4) Building De	esigner / Project en	aineer re	sponsible for	• • •				JULIUS	15.11
	12), 20=- Max Gray 2-273 (I	C 1) 12-273 (I C 1)	verifying a	plied roof live load	shown c	overs rain loa	iding				JUL	-EE 11,
	14-125 (1 C 18) 15-181 (I C 18	R) requirement	Its specific to the u	se of this	truss compor	nent.				CEA	SA.
	16=184 (LC 18), 17=133 (LC 12	2) 5) All plates a	re 1.5x4 MT20 unle	ess other	wise indicated	d.			5	1. A.	S
	18=186 (LC 17), 19=177 (LC 1	7), 6) Gable requ	ires continuous bot	ttom chor	d bearing.				-	No 34	869
	20=106 (LC 17)	7) Gable stud	s spaced at 2-0-0 c	DC.					140		1 L L E
FORCES	(lb) - Maximum Cor	npression/Maximum	This truss I	has been designed	for a 10.0) psf bottom			- 3	1:		// :^ =
	Tension	1	chord live I	oad nonconcurrent	with any	other live loa	ds.			-		
TOP CHO	RD 1-2=0/75, 2-4=-169	/129, 4-5=-118/104,	9) ^ This truss	s has been designe	d for a liv	e load of 20.0	pst			-11	LANULAAL	
	5-6=-110/76, 6-7=-2	107/177, 7-8=-107/177	, 011 the bott	by 2 00 00 wide w	as where	a reclarigie	-m			=0	CONTINUE	
	8-9=-70/63, 9-10=-8	81/55, 10-12=-160/98,	chord and	any other members		veen me bou	5111			3%	· ^,	- F .: A -
	12-13=0/75		10) All bearing	s are assumed to h	,. e SP No	2				1	OR	GIN
BOT CHO	RD 2-20=-105/261, 19-	20=-98/254,	11) Provide me	chanical connection	n (by oth	ers) of truss t	0				SION	ENIN
	18-19=-98/254, 17-	10=-98/254,	bearing pla	te capable of withs	tanding 1	1 lb uplift at j	oint				UNA	L'internet
	10-17=-90/204, 10-	10=-30/234,	2, 8 lb uplif	t at joint 12, 44 lb u	plift at joi	nt 18, 49 lb u	plift					III.
	14-15=-30/234, 12-	1	at joint 19,	34 lb uplift at joint 2	20, 44 ĺb	uplift at joint 1	6,		J	ulius Le	e PE No. 34869	TT C (CA)
			49 lb uplift	at joint 15 and 47 ll	b uplift at	joint 14.			M	ii Fek Ir 6023 Su	ic. DBA MiTek USA	hesterfield MO 63017
									1	0040 00	ingrey Riuge Ru. C	nester netu, mo 0301/

LOAD CASE(S) Standard

January 14,2025



Date:

Job	Truss	Truss Type	Qty	Ply	Holloway				
1224-054 with attic	E02	Common	1	1	Job Reference (optional)	136050276			

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:57 ID:bkgX9G6P9eXN0Y8MZaRs5wzx5EZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:57.1

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.32	Vert(LL)	-0.01	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25		BC	0.16	Vert(CT)	-0.02	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.13	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-MS							Weight: 122 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shea 6-0-0 oc purlins, exc	athing directly applie	4) 5) ed or 6)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings	s been designed ad nonconcurrent has been designe in chord in all area by 2-00-00 wide w by other members are assumed to b	for a 10.0 with any d for a liv as where vill fit betv s. e SP No.	0 psf bottom other live loa e load of 20.1 a rectangle veen the botto 2.	ads. Opsf om					
BOT CHORD	Rigid ceiling directly bracing	applied or 6-0-0 oc	7)	Provide mec bearing plate	hanical connectio capable of withs	n (by oth tanding 5	ers) of truss f 52 lb uplift at j	to joint					
REACTIONS	(size) 8=0-3-8, 1 Max Horiz 12=-232 (I Max Uplift 8=-52 (LC Max Grav 8=744 (LC	2=0-3-8 _C 10) 12), 12=-52 (LC 12 ; 1), 12=744 (LC 1)	L(?)	12 and 52 lb DAD CASE(S)	uplift at joint 8. Standard								
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/91, 2-3=-598/5 4-5=-460/120, 5-6=-5 2-12=-706/118, 6-8=-	52, 3-4=-460/120, 598/52, 6-7=0/91, -706/118											
BOT CHORD	11-12=-188/212, 10- 8-9=-31/96	11=0/442, 9-10=0/3	376,									ULIUS	LEE
WEBS	2-11=0/395, 6-9=0/3 3-10=-201/96, 4-10= 5-9=-13/100	95, 3-11=-13/100, -97/379, 5-10=-201,	/96,								S. S	LICEN	SE
NOTES										-	1	NO 34	869
1) Unbalanced roof live loads have been considered for										- 3	*:		∧ :★ Ξ
this desig	n.									=	:	1 1*	
 Wind: AS 	CE 7-22; Vult=130mph	(3-second gust)								-	D:	Y //.	

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 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

 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Julius Lee PE No. 34869

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	E03	Common Girder	1	2	Job Reference (optional)	136050277

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:57 ID:BE56oVuBsdj8JXcstk65Edzx5DY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:59.5

Plate Offsets (X, Y): [8:Edge,0-2-0], [9:0-3-8,0-4-12], [11:0-3-8,0-4-12]

_														
Loa	ading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
тс	LL (roof)	20.0	Plate Grip DOL	1.25		тс	0.24	Vert(LL)	-0.06	10-11	>999	240	MT20	244/190
TC	DL	10.0	Lumber DOL	1.25		BC	0.37	Vert(CT)	-0.11	10-11	>999	180		
BC	LL	0.0*	Rep Stress Incr	NO		WB	0.62	Horz(CT)	0.01	8	n/a	n/a		
BC	DL	10.0	Code	FBC20)23/TPI2014	Matrix-MS							Weight: 270 lb	FT = 20%
LU	MBER			3	3) Unbalanced	roof live loads hav	e been (considered for			Vert: 11	=-115	5 (B), 10=-3991 (B), 13=-1001 (B),
то	P CHORD	2x4 SP No.2			this design.						14=-147	78 (B)		
BO	T CHORD	2x6 SP 2400F 2.0E		4	 Wind: ASCE 	7-22; Vult=130mp	h (3-sec	cond gust)						
WE	BS	2x4 SP No.2 *Excep	ot* 12-2,8-6:2x6 SP N	0.2	Vasd=101m	on; TCDL=6.0pst; I	BCDL=6	0.0psf; n=15ft;						
BR	ACING				B=45ft; L=24	ft; eave=4ft; Cat. I	I; EXP B	; Enclosed;						
то	P CHORD	Structural wood she	eathing directly applie	d or	WIVERS (dir	ectional); cantileve	er leπ an	a right expose	ea;					
		5-0-12 oc purlins, e	except end verticals.		end vertical	en and right expos	sea; Lun	iber DOL=1.6	0					
BO	T CHORD	Rigid ceiling directly	/ applied or 10-0-0 oc		Plate grip DC S Puilding Doc	ignor / Project ong	inoor ro	sponsible for						
		bracing.			 building Des verifying appr 	lied roof live load a	shown c		dina					
RE	ACTIONS	(size) 8=0-3-8,	12=0-3-8		requirements	s specific to the use	o of this	trues compon	ant					
		Max Horiz 12=-232	(LC 6)	f	3) This truss ha	s been designed f	or a 10 (nsf hottom	ient.					
		Max Uplift 8=-420 (L	_C 8), 12=-144 (LC 8)		chord live lo	ad nonconcurrent v	with any	other live load	he					
		Max Grav 8=4152 (LC 14), 12=6029 (LC	13) -	 * This truss h 	as been designed	for a liv	e load of 20 0	nsf					
FO	RCES	(lb) - Maximum Con	npression/Maximum		on the bottor	n chord in all areas	s where	a rectangle	p0.					
		Tension			3-06-00 tall b	y 2-00-00 wide wi	ll fit betv	veen the botto	m					
то	P CHORD	1-2=0/95, 2-3=-611	1/88, 3-4=-4822/517,		chord and ar	y other members.								
		4-5=-4825/517, 5-6=	=-4433/443, 6-7=0/95	, 8	3) All bearings	are assumed to be	SP 240	0F 2.0E .						
		2-12=-5425/130, 6-8	8=-4000/446	ç) Provide mec	hanical connectior	n (by oth	ers) of truss to	C					111.
BO	T CHORD	11-12=-108/630, 10	-11=-22/4354,		bearing plate	capable of withst	anding 1	44 lb uplift at	joint				MULLINS.	1
		9-10=-212/3105, 8-9	9=-6/292		12 and 420 I	b uplift at joint 8.							JULIOU	LEE "
WE	BS	3-11=0/1874, 3-10=	-1460/0, 4-10=-667/6	503, <i>·</i>	10) Use MiTek J	US26 (With 4-10d	nails int	o Girder & 4-1	0d			1	. CEA	10
		5-10=-74/557, 5-9=-	-856/50, 2-11=-2/387	7,	nails into Tru	ss) or equivalent a	at 1-9-4	from the left e	nd			3		E
		6-9=-270/2900			to connect tr	uss(es) to back fac	ce of bot	tom chord.				5	· No 34	860
NO	TES				1) Use MiTek F	IUS26 (With 14-16	id nails i	nto Girder &						000
1)	2-ply truss	to be connected toge	ether with 10d		6-16d nails i	nto Truss) or equiv	alent sp	aced at 2-0-0	oc			*		▲ ▲ ▲
	(0.131"x3") nails as follows:			max. starting	at 3-9-4 from the	left end	to 5-9-4 to			-		/. / ×	
	Top chord	s connected as follow	s: 2x4 - 1 row at 0-9-0)	connect trus	s(es) to back face	of bottor	m chord.	•		-	D		
	oc, 2x6 - 2	2 rows staggered at 0-	9-0 oc.		2) Use Milek I	HDH26-2 (With 22	2-16d na	ils into Girder	ă.			T	Patrice	OF :45
	Bottom ch	ords connected as foll	lows: 2x6 - 2 rows		8-160 halls li	to Truss) or equiv	alent at	7-8-8 from the				20	· · ·	:45
	staggered	at 0-6-0 oc.				ct truss(es) to bac	k lace u		J.			30	ALOP	10.5
	Web conn	ected as follows: 2x4	- 1 row at 0-9-0 oc,			loo whore henger	io in cor	to at with lumb	or			11		
2)	Except me	emper 4-10 2x4 - 1 rov	valu-5-0 0C.				13 11 001						1, ONA	LEIN
2)	All loads a	are considered equally	applied to all plies,		LUAD CASE(S)	Standard			-				1111	inne.
		oreu as front (F) of ba	ick (D) lace in the LU	4U '	 Dead + Ro Diata la 	of Live (balanced):	Lumber	increase=1.2	э,			ulius I -	DE No. 34960	
		section. Ply to ply con	nections have been		Plate Increa	1Se=1.25					J	tiTek Ir	C. DBA MiTek USA	A FL Cert 6634
		o ulsinbute only 1080S	noted as (F) of (B),		Uniform Lo		00.0	7 00 0 40	00		1	6023 Sw	vingley Ridge Rd. C	hesterfield, MO 63017
	uniess oth	iei wise inuicateu.			Vert: 1-2	=-60, 2-4=-60, 4-6	=-60, 6-	/=-60, 8-12=-2	20		D	ate:		

Vert: 1-2=-60, 2-=-60, 6-7=-60, 8-12=-20 -60, 4-6 Concentrated Loads (lb)

January 14,2025

Page: 1

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	F01	Floor	8	1	Job Reference (optional)	T36050278

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:57 ID:WeEdKh81prGe9qduH?nG71zy1xT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:43.7

Plate Offsets ((X, Y): [1:Edge,0-0-12], [6:0-1-8,Edge], [7:	0-1-8,Edge], [14:Edge,0	-1-8], [27:0-1-8,0	-0-12], [28	:0-1-8,0-0-12]					
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-4-0 1.00 1.00 YES FBC2023/TPI2014	CSI TC BC WB Matrix-S	0.70 0.91 0.29	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.54 -0.74 0.11	(loc) 19-20 19-20 14	l/defl >546 >397 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 126 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SP No.2(flat) 2x4 SP No.1(flat) 2x4 SP No.2(flat) 2x4 SP No.2(flat)		5) Required 2: oc and fast nails. Stror ends or res LOAD CASE(S	x6 strongbacks, c ened to each trus ngbacks to be atta trained by other r) Standard	on edge, sp is with 3-10 ached to wa neans.	baced at 10-0 0d (0.131" X 3 alls at their o	0-00 3") uter				.	
BOT CHORD	Structural wood she 4-10-10 oc purlins, Rigid ceiling directly bracing	athing directly applie except end verticals applied or 10-0-0 oc	d or C									
REACTIONS	(size) 14=0-3-8, Max Grav 14=891 (I	, 26=0-3-8 _C 1), 26=891 (LC 1))									
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	1-26=-25/0, 13-14=- 2-3=-1716/0, 3-4=-2 5-6=-4358/0, 6-7=-4 8-10=-3861/0, 10-11 12-13=-1/0	25/0, 1-2=-1/0, 977/0, 4-5=-3861/0, 509/0, 7-8=-4358/0, 1=-2977/0, 11-12=-17	716/0,									in the second se
BOT CHORD	25-26=0/977, 24-25 21-23=0/4200, 20-2 18-19=0/4509, 17-1 15-16=0/2436, 14-1	=0/2436, 23-24=0/35 1=0/4509, 19-20=0/4 8=0/4200, 16-17=0/3 5=0/977	503, 1509, 1503,							S. S	JULIUS	
WEBS	12-14=-1298/0, 2-26 2-25=0/1028, 11-15 11-16=0/753, 3-24= 4-24=-731/0, 10-17= 8-17=-473/0, 5-23=- 5-21=-5/355, 7-18=- 6-20=-159/176, 7-19	=-1298/0, 12-15=0/ =-1001/0, 3-25=-100 0/753, 10-16=-731/0 =0/497, 4-23=0/497, 473/0, 8-18=-5/355, 456/135, 6-21=-456/ ==-159/176	1028, 1/0, , (135,							6	2 No 34	
NOTES 1) Unbalance this design	ed floor live loads have	been considered fo	r							(SS/ONA	LENGTIN
 All plates : The Fabrie All bearing 	are 3x4 MT20 unless of cation Tolerance at join gs are assumed to be \$	otherwise indicated. nt 22 = 11% SP No.1 .							Ju M 10 D	ulius Le liTek In 6023 Sw ate:	ee PE No. 34869 ac. DBA MiTek USA vingley Ridge Rd. C	FL Cert 6634 hesterfield, MO 63017

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	F02	Common Supported Gable	1	1	Job Reference (optional)	T36050279

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:57 ID:ICbcG3xw4SRZjzsYzS5sr4zx7QD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

Scale = 1:46.1

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25		CSI TC	0.34	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.25		BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC202	23/TPI2014	Matrix-MS							Weight: 79 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS WEDGE BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Left: 2x4 SP No.2 Right: 2x4 SP No.2 Structural wood shee	athing directly applied	2) or 3)	Wind: ASCE Vasd=101mp B=45ft; L=24 MWFRS (dire left and right exposed;C-C reactions sho DOL=1.60 Truss design	7-22; Vult=130m h; TCDL=6.0psf ft; eave=2ft; Cat. ectional) and C-C exposed ; end vo for members an own; Lumber DO ed for wind loads	nph (3-sec ; BCDL=6 . II; Exp B C Zone3 z ertical left d forces & L=1.60 pl s in the pl	cond gust) 6.0psf; h=15ft; ; Enclosed; one; cantileve and right & MWFRS for ate grip ane of the tru:	er					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	,	only. For stu see Standard	ds exposed to w Industry Gable	ind (norm End Deta	al to the face), ble,					
REACTIONS	(size) 2=11-0-0, 13=11-0-0 16=11-0-0 Max Horiz 2=148 (LC Max Uplift 2=-45 (LC 12=-18 (L 15=-54 (L) Max Grav 2=250 (LC 12=99 (LC 14=126 (L) 16=91 (LC	10=11-0-0, 12=11-0-0 0, 14=11-0-0, 15=11-0 11) 12), 10=-45 (LC 12), C 8), 13=-54 (LC 12), C 12), 16=-8 (LC 9) 1), 10=250 (LC 1), C 18), 13=194 (LC 18) C 17), 15=194 (LC 17) C 3)), 4) -0, 4) 5) 6) 7) , 8) 7),	or consult qu Building Desi verifying app requirements Gable require Gable studs a This truss ha chord live loa * This truss h on the botton 3-06-00 tall b	alified building d igner / Project er lied roof live loac s specific to the u es continuous bo spaced at 2-0-0 s been designed d nonconcurrent as been designe n chord in all are y 2-00-00 wide v	esigner as agineer re a shown c ise of this ttom chor oc. I for a 10.0 t with any ed for a liv as where will fit betv	s per ANSI/TF sponsible for overs rain loa truss compor d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto	211. ding hent. ds. 0psf					
FORCES	(lb) - Maximum Com	pression/Maximum	9)	All bearings a	are assumed to b	s. be SP No.	2.					No 34	869
TOP CHORD	1-2=0/76, 2-3=-115/9 5-6=-99/144, 6-7=-10 9-10=-100/110, 10-1	91, 3-5=-87/74, 00/145, 7-9=-58/42, 1=0/76	1() Provide mech bearing plate 15, 8 lb uplift	capable of withs at joint 16, 54 lb	on (by oth standing 5 uplift at jo 2 and 45	ers) of truss t 64 lb uplift at j bint 13, 18 lb	o oint uplift			*	Can	*
BOT CHORD	2-16=-106/243, 15-1 14-15=-99/241, 13-1 12-13=-99/241 10-1	6=-99/241, 4=-99/241, 2=-100/241	11	10. 1) Beveled plate	e or shim require	d to provi	de full bearing	9			RO	Aller	VOM III
WEBS	6-14=-120/30, 5-15= 7-13=-154/182, 9-12	-154/182, 3-16=-167/9 =-165/96	^{97,} Lo	SURFACE with F	truss chord at joi Standard	nt(s) 2, 1().					C C P	ENGINI
NOTES											8	UNA	Linn
1) Unbalance	d roof live loads have	been considered for											III.

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

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.sbcscomponents.com)

January 14,2025

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MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Julius Lee PE No. 34869

Date:

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	F03	Common	1	1	Job Reference (optional)	136050280

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:57 ID:RK24PNK2_nwF0e8fC5fq?Kzx7OQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:45.6

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

oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
FCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.49	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190	
FCDL	10.0	Lumber DOL	1.25		BC	0.25	Vert(CT)	-0.04	7-8	>999	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.08	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code	FBC202	23/TPI2014	Matrix-MS							Weight: 74 lb	FT = 20%	
LUMBER TOP CHORD 30T CHORD WEBS BRACING TOP CHORD 30T CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 6=0-3-8, 8 Max Horiz 8=178 (LC Max Uplift 6=-102 (L	athing directly applie cept end verticals. applied or 10-0-0 o 3=0-3-8 C 11) C 12), 8=-102 (LC 1	5) ed or 7) c L(* This truss on the botto 3-06-00 tall chord and a All bearings Provide mer bearing plat 8 and 102 lt DAD CASE(S)	has been designe m chord in all are by 2-00-00 wide v ny other member are assumed to 1 chanical connectii e capable of with: uplift at joint 6. Standard	ed for a live bas where a will fit betw s. be SP No.: on (by othe standing 1	e load of 20. a rectangle reen the bott 2 . ers) of truss 02 lb uplift a	0psf om to t joint						
ORCES	Max Grav 6=557 (LC (lb) - Maximum Com Tension	C 1), 8=557 (LC 1) pression/Maximum												
	1-2=0/91, 2-3=-404/ 4-5=0/91, 2-8=-510/ 7-8170/315_6-7	122, 3-4=-404/150, 280, 4-6=-510/256 87/257												
WEBS	3-7=0/220, 2-7=-167	7/315, 4-7=-166/250										1111111	1111	
NOTES	•••••	,,										ULIUS	LEF	
) Unbalance this design) Wind: ASC Vasd=101 B=45ft; L= Enclosed; 1-0-0, Zon right expositor 	ed roof live loads have CE 7-22; Vult=130mph mph; TCDL=6.0psf; Bi 24ft; eave=4ft; Cat. II; MWFRS (directional) e1 1-0-0 to 13-0-0 zor sed; end vertical left a sed; end vertical left a WWF	been considered fo (3-second gust) CDL=6.0psf; h=15ft; Exp B; Partially and C-C Zone3 -2-0 le; cantilever left an- nd right exposed;C- RS for reactions shc	r ;)-0 to d -C)wn;								* PH		SE	

- Lumber DOL=1.60 plate grip DOL=1.60 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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.sbcscomponents.com)

January 14,2025

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MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

minim

Julius Lee PE No. 34869

Date:

Page: 1

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	F04	Common	1	1	Job Reference (optional)	136050281

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:58 ID:Vr9_horRqNw?_CmY27mi?dzxOS1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:46.5

Plate Offsets (X, Y): [2:0-4-10,0-1-11], [4:0-1-10,0-1-11]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.32	Vert(LL)	0.03	7-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25		BC	0.29	Vert(CT)	-0.04	7-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.07	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	FBC20	23/TPI2014	Matrix-MS							Weight: 72 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Left 2x12 SP No.2 No.2 1-6-0	• 1-6-0, Right 2x12 S	5 P 6	 * This truss h on the bottor 3-06-00 tall b chord and ar Bearings are SP No.2. 	has been designe in chord in all are by 2-00-00 wide v by other members assumed to be:	ed for a liv as where vill fit betw s, with BC , Joint 2 S	e load of 20. a rectangle veen the bott :DL = 10.0ps SP No.2 , Join	0psf om f. nt 4					
BRACING TOP CHORD	Structural wood she 6-0-0 oc purlins.	athing directly applie	ed or ⁸	 Provide mechanical de la construcción de la construcción	hanical connections controls to the connection of the connection o	on (by oth standing 1	ers) of truss 42 lb uplift a	to t joint					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	Ľ	1 and 53 lb u OAD CASE(S)	iplift at joint 4. Standard								
REACTIONS	(size) 1= Mecha Max Horiz 1=-165 (L Max Uplift 1=-142 (L Max Grav 1=169 (L 4=627 (L)	anical, 2=0-3-8, 4=0- C 10) C 10), 4=-53 (LC 12 C 11), 2=803 (LC 17) C 18)	3-8)),										
FORCES	(lb) - Maximum Corr Tension	pression/Maximum											
TOP CHORD	1-2=-217/283, 2-3=- 4-5=0/85	480/104, 3-4=-461/1	24,									ULIUS	LEE
BOT CHORD	2-7=-72/306, 4-7=-6	1/306									J.	CEA	10.11
WEBS	3-7=-7/295										5		OF .
NOTES												· No. 04	000
1) Unbalance this design	ed roof live loads have n.	been considered for	r								*		009 . *
2) Mind. ACC	C 7 00. V/ult 400mmh	(2 cocord such)									•		

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-11-4 to 1-0-12, Zone1 1-0-12 to 13-0-0 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

 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Page: 1

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	F05	Common	1	1	Job Reference (optional)	136050282

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:58 ID:CQbyDIrO5hDI35MjgwPgiAzx7Nm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:44.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.04	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 66 lb	FT = 20%

6) All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 4=0-3-8, 6=0-3-8
	Max Horiz 6=-133 (LC 10)
	Max Grav 4=428 (LC 1), 6=428 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-414/94, 2-3=-414/118, 1-6=-381/117,
	3-4=-381/111
BOT CHORD	5-6=-182/260, 4-5=-94/164
WEBS	2-5=0/223, 1-5=-75/203, 3-5=-80/144

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-10-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	G01	Roof Special Girder	1	2	Job Reference (optional)	T36050283

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:58 ID:7Ektalzs6GrYdvfVLpYQiozx7Jj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

I	4-2-8	4-7-12	8-5-8	12-8-8
1	4-2-8	0-5-4	3-9-12	4-3-0

Scale = 1:59.3

Plate Offsets (X, Y): [6:Edge,0-2-0], [7:0-4-0,0-4-12], [9:0-8-8,0-4-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC202	3/TPI2014	CSI TC BC WB Matrix-MS	0.49 0.83 0.36	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.06 0.00	(loc) 6-7 6-7 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 212 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP No.2 *Excep 2x4 SP No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 6=0-3-8, Max Horiz 11=-213 (Max Uplift 11=-595 (Max Grav 6=3503 (I) 11=0 (LC (lb) - Maximum Corr Tension 1-11=-92/37, 1-2=-1 3-4=-6/495, 4-5=-29 10-11=-488/68, 9-11 3-9=-10/228, 7-8=-1	ot* 3-8:2x4 SP No.2 eathing directly applie cept end verticals. r applied or 6-0-0 oc 10=0-4-0, 11=0-4-0 (LC 13) LC 14), 10=4072 (LC 9) pression/Maximum 16/63, 2-3=0/650, 122/0, 5-6=-2159/0 =-1859/0, 8-9=-33/50 1/526, 6-7=0/309	3) d or 4) 5) 6) 13), 7) 8) 97, 9)	Wind: ASCE Vasd=101mp B=45ft; L=24 MWFRS (dirr end vertical li plate grip DC Building Desi verifying app requirements this truss h on the bottom 3-06-00 tall bi chord and an All bearings a Provide mecl bearing plate 11. Use MiTek JI nails into Tru	7-22; Vult=130mpl h; TCDL=6.0psf; E ft; eave=4ft; Cat. II actional); cantilevei eft and right expose VL=1.60 gner / Project engi lied roof live load s s specific to the uses s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members. are assumed to be nanical connection capable of withsta US26 (With 4-10d is s) or equivalent a	h (3-sec 3CDL=6 ; Exp B r left an- ed; Lurr ineer re- hown c of this or a 10.0 vith any for a liv where I fit betw SP No. (by oth anding 5 nails int t 5-6-12	ond gust) .0psf; h=15ft ; Enclosed; d right expos iber DOL=1.6 sponsible for overs rain loa truss compoi) psf bottom other live loa e load of 20.1 a rectangle reen the botto 2. ers) of truss f 95 lb uplift at o Girder & 4- from the left	; ed ; 50 ading nent. ds. Dpsf om ; joint 10d end				IN IULIUS	
WEBS	7-9=0/2155, 4-9=-34 5-7=0/2392, 2-10=-7	428/0, 4-7=0/2958, 1153/0, 2-11=0/713	10	to connect tru Use Simpsor	uss(es) to back fac Strong-Tie HGUS	e of bot 26-3 (2	tom chord. 0-10d Girder	, 		6	S. S. S.	CEN	SE
 2-ply truss (0.131*x3' Top chord oc. Bottom ch staggered Web conn All loads a except ifn CASE(S) provided t unless oth 	to be connected toge) nails as follows: s connected as follows: ords connected as follows: ords connected as follows: at 0-5-0 oc, 2x4 - 1 ro ected as follows: 2x4 - rre considered equally oted as front (F) or ba section. Ply to ply conn o distribute only loads nerwise indicated.	ther with 10d s: 2x4 - 1 row at 0-9-(lows: 2x6 - 2 rows w at 0-9-0 oc. - 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO. nections have been noted as (F) or (B),	11 12 12 LC AD	o-100 Irtuss) connect truss) Use MiTek H 6-16d nails ir max. starting connect truss) Fill all nail ho DAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-5- Concentrate Vert: 12=	or equivalent at 7- s(es) to back face of US26 (With 14-16 nto Truss) or equiva at 9-5-4 from the I s(es) to back face of les where hanger i Standard of Live (balanced): ise=1.25 ads (lb/ft) =-60, 9-11=-20, 6-8 ed Loads (lb) -367 (B), 13=-1847	o-12 ffC of bottor d nails in alent sp eft end of bottor is in cor Lumber 3=-20 7 (B), 14	In ne left en n chord. nto Girder & aced at 2-0-(to 11-5-4 to n chord. ttact with lum Increase=1.	u to) oc ber. 25,		Ju	dius Le iTek In i023 Sw	No 34	A FL Cert 6634 hesterfield, MO 63017

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	G02	Flat Girder	1	2	Job Reference (optional)	136050284

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:58 ID:IkNhAR03Jr9NpLfhkbYAGUzx4NA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

Scale = 1:53.9

Loading (psf) TCLL (roof) 20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC2023/TPI2014	CSI TC 0.43 BC 0.88 WB 0.75 Matrix-MS	DEFL in Vert(LL) -0.04 Vert(CT) -0.08 Horz(CT) 0.01	(loc) 5-6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 227 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.2 BRACING TOP CHORD Structural wood she 6-0-0 oc purlins, ex BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 5=0-3-8, Max Horiz 8=170 (L Max Uplift 5=-86 (L Max Grav 5=5261 (FORCES (lb) - Maximum Cor TOP CHORD 1-8=-3202/24, 1-2= 3-4=-80/58, 4-5=-17 BOT CHORD 7-8=-136/140, 6-7= WEBS 3-5=-3813/80, 2-7= 2-6=-126/116, 3-6= NOTES 1) 2-ply truss to be connected toge (0.131*x3") nails as follows: TOp chords connected as follow oc. Bottom chords connected as follow oc. Bottom chords connected as follows: 2x4 2) All loads are considered equally except if noted as fort (F) or b: CASE(S) section. Ply to ply con provided to distribute only loads unless otherwise indicated.	eathing directly applied coept end verticals. / applied or 10-0-0 oc 8=0-3-8 C 7) C 5) LC 1), 8=4129 (LC 1) npression/Maximum -2141/30, 2-3=-2191/7 7/28 -67/2141, 5-6=-86/219 -317/178, 1-7=-7/3733 0/2879 ether with 10d s: 2x4 - 1 row at 0-9-0 lows: 2x6 - 3 rows - 1 row at 0-9-0 oc. - applied to all plies, tok (B) face in the LO, nections have been noted as (F) or (B),	 3) Wind: ASCE Vasd=101m B=45ft; L=2: MWFRS (din end vertical plate grip D0 4) Building Des verifying app requirement 5) Provide ade 6) This truss ha chord live lo 7) * This truss ha chord live lo 7) * This truss on the botto 3-06-00 tall chord and a 75, 8) All bearings 9) Provide med bearing plate 5. 10) Use MiTek I 6-16d nails in max. starting connect trus 11) Fill all nail hu LOAD CASE(S) 11) Dead + Ro Plate Incre Uniform Lo Vert: 1-4 AD Concentrati Vert: 11: 14=-119 (B) 	E 7-22; Vult=130mph (3-se ph; TCDL=6.0psf; BCDL= 4ft; eave=4ft; Cat. II; Exp E rectional); cantilever left ar UDL=1.60 signer / Project engineer re plied roof live load shown o s specific to the use of this quate drainage to prevent as been designed for a 10 ad nonconcurrent with any has been designed for a 10 and nonconcurrent with any has been designed for a 10 ad nonconcurrent with any has been designed for a 10 and nonconcurrent wit	cond gust) 6.0psf; h=15ft; 3; Enclosed; id right exposed; mber DOL=1.60 exponsible for covers rain loading is truss component. water ponding. 0 psf bottom / other live loads. ve load of 20.0psf e a rectangle ween the bottom 2.2. hers) of truss to 86 lb uplift at joint into Girder & baced at 2-0-0 oc id to 12-3-4 to im chord. ntact with lumber. r Increase=1.25, 13=-1196 (B), 1197 (B), 17=-1207			THE THE	No 34	

- CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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.sbcscomponents.com)

January 14,2025

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Julius Lee PE No. 34869

Date:

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	G03	Roof Special Girder	1	2	Job Reference (optional)	T36050285

Scale = 1:48.2

Run 8 73 S. Dec. 5 2024 Print: 8 730 S.Dec. 5 2024 MiTek Industries. Inc. Tue. Jan 14 09:19:58 ID:Bn8eacGEMIpOrZIjTWQ5dvzx4Mr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

19

7

6

17 9 18

ПП

11

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.05	8-9	>999	180			
BCLL	0.0*	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.02	6	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 209 lb	FT = 20%	
LUMBER			3) Wind: ASCE	7-22: Vult=130r	nph (3-sec	cond aust)							

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
REACTIONS	(size) 6=0-3-8, 12=0-3-8
	Max Horiz 12=-137 (LC 4)
	Max Uplift 6=-123 (LC 5), 12=-105 (LC 4)
	Max Grav 6=1747 (LC 1), 12=1447 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-12=-1314/108, 1-2=-727/89, 2-3=-1308/97, 3-4=-1308/97, 4-5=-718/67, 5-6=-1353/120
BOT CHORD	11-12=-17/6, 10-11=-13/226, 2-10=-714/114, 9-10=-154/799, 8-9=-99/769, 7-8=-18/291,
	4-8=-702/103, 6-7=-6/19
WEBS	10-12=-124/133, 1-10=-105/1443,
	2-9=-82/776, 3-9=-260/63, 4-9=-69/756,
	6-8=-64/65, 5-8=-136/1478
NOTES	
1) 2-ply truss	s to be connected together with 10d
(0.131"x3	') nails as follows:
Top chord	ls connected as follows: 2x4 - 1 row at 0-9-0

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

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, 2) except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding. 5) This truss has been designed for a 10.0 psf bottom 6)
- chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2. 8)
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 105 lb uplift at joint 12 and 123 lb uplift at joint 6.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- LOAD CASE(S) Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)
 - Vert: 1-5=-60, 11-12=-20, 8-10=-20, 6-7=-20 Concentrated Loads (Ib)
 - Vert: 15=-312 (F), 16=-312 (F), 17=-312 (F), 18=-312 (F), 19=-312 (F), 20=-312 (F), 21=-319 (F)

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Page: 1

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	G04	Roof Special Girder	1	2	Job Reference (optional)	T36050286

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:58 ID:f3BqjT?VqjwcZxX_ATK99Tzx89v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Scale = 1:80.8

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

Loading TCLL (ro TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC202	3/TPI2014	CSI TC BC WB Matrix-MP	0.33 0.43 0.38	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.05 -0.08 0.01	(loc) 4-5 4-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 216 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHI BOT CHI WEBS BRACIN BOT CHI BOT CHI WEBS REACTIO	DRD 2x4 SP No.2 DRD 2x6 SP No.2 *Exc 2x4 SP No.2 *Exc 2x4 SP No.2 DRD Structural wood sl 6-0-0 oc purlins, 6 DRD Rigid ceiling direc bracing. Except: 10-0-0 oc bracing; 1 Row at midpt DNS (size) 4= Mec Max Horiz 8=273 (Max Uplift 4=-362 Max Grav 4=1027	ept* 2-5:2x4 SP No.2 neathing directly appli except end verticals. dy applied or 10-0-0 o 5-7 3-4 hanical, 8=0-4-0 LC 7) (LC 5), 8=-467 (LC 4) (LC 13), 8=1437 (LC	3) ed or 4) c 5) 6) 7) 14)	Wind: ASCE Vasd=101mp B=45ft; L=24 MWFRS (dirr end vertical l plate grip DC Building Des verifying app requirements Provide adec This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an	7-22; Vult=130mph bh; TCDL=6.0psf; B ft; eave=4ft; Cat. II; ectional); cantilever eft and right expose JL=1.60 gner / Project engin lied roof live load sl specific to the use juate drainage to p s been designed fo d nonconcurrent w as been designed fo n chord in all areas y 2-00-00 wide will y other members.	a (3-sec CDL=6 Exp B left and ed; Lum neer re- nown co of this revent v r a 10.0 for a liv where fit betw	ond gust) .0psf; h=15ft; Enclosed; d right exposs; ber DOL=1.6 sponsible for overs rain loa vater ponding 0 psf bottom other live loa e load of 20.0 a rectangle veen the bottom	; 60 ading nent. g. ds. Opsf						
TOP CH	(lb) - Maximum Co Tension DRD 1-8=-36/98, 1-2=-9 3-4=-530/272	08/88, 2-3=-241/126,	8) 9) 10	Bearings are Refer to girde Provide mech bearing plate	assumed to be: Jo er(s) for truss to trus nanical connection capable of withsta	int 8 SF ss conr (by oth nding 4	P No.2 . lections. ers) of truss t 67 lb uplift at	to t joint				WINIUS		
WEBS NOTES 1) 2-ply (0.13 Top oc. Bottc stagg Web 2) All lo exce CAS provi	JRD 7-8=-229/313, 5-7 5-6=0/0, 4-5=-2/4 2-8=-1269/404, 4- truss to be connected tog 1*x3") nails as follows: chords connected as follows: chords connected as follows: pered at 0-9-0 oc, 2x4 - 1 connected as follows: 2x, ads are considered equal to fin oted as front (F) or th E(S) section. Ply to ply co ded to distribute only load	=-73/485, 2-7=-312/9 7=-111/100, 3-7=-284 gether with 10d ws: 2x4 - 1 row at 0-9 bollows: 2x6 - 2 rows row at 0-9-0 oc. 4 - 1 row at 0-9-0 oc. 4 - 1 row at 0-9-0 oc. ly applied to all plies, pack (B) face in the L0 nnections have been is noted as (F) or (B),	40, 11 -0 12 -0 13 -0 DAD 1)	8 and 362 lb) Use MiTek Ji nails into Tru starting at 0- truss(es) to b) Fill all nail ho) Hanger(s) or provided suff lb down and design/select responsibility DAD CASE(S) Dead + Roo Plate Increa Uniform Loo	uplift at joint 4. JS26 (With 4-10d r ss) or equivalent sp 9-4 from the left end ack face of bottom les where hanger is other connection d icient to support co 129 lb up at 1-7-4 ion of such connec of others. Standard f Live (balanced): I use=1.25 ads (lb/ft)	ails into baced a d to 5-6 chord. s in cor evice(s ncentra on bott tion de	o Girder & 4- t 2-9-8 oc ma -12 to conne- tact with lum) shall be ted load(s) 4 om chord. Th vice(s) is the Increase=1.2	10d ax. ct ber. 25 ne 25,			* PRO			
unles	s otherwise indicated.			Vert: 1-3 Concentrate Vert: 7=-3	=-60, 7-8=-20, 5-6= ed Loads (lb) 364 (B), 9=-368 (B)	-20, 4- ! , 11=-3	5=-20 64 (B), 12=-3	364		л М 10 D	iTek In 5023 Sw ate:	e PL No. 34869 c. DBA MiTek USA /ingley Ridge Rd. Cl	FL Cert 6634 nesterfield, MO 6301	l 7

January 14,2025

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 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.sbcscomponents.com)

(B)

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	G05	Roof Special Girder	1	2	Job Reference (optional)	T36050287

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:58 ID:_2e1sjZ4TQuFP1EDOAG0W3zy6x6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page

Scale = 1:84.5

Plate Offsets (X,	Y):	[7:0-5-4,0-4-0]
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Loa TC TC BC BC	ading LL (roof) DL LL DL	(psf) 20.0 10.0 0.0* 25.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC202	3/TPI2014	CSI TC BC WB Matrix-MP	0.35 0.07 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 2 2 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 171 lb	GRIP 244/190 FT = 20%
LU TO BO WE BR TO BO WE RE	MBER P CHORD T CHORD EBS ACING P CHORD T CHORD T CHORD	2x4 SP No.2 2x6 SP No.2 *Excep 2x4 SP No.2 Structural wood shea 3-4-0 oc purlins, exc Rigid ceiling directly bracing. Except: 10-0-0 oc bracing: 2- 1 Row at midpt (size) 4= Mecha Max Horiz 8=273 (LC Max Uplift 4=-432 (LI Max Grav 4=637 (LC	t* 2-5:2x4 SP No.2 athing directly applied cept end verticals. applied or 6-0-0 oc -5 1-8, 3-4 nical, 8=0-4-0 27) C 5), 8=-432 (LC 4) 213), 8=670 (LC 14)	3) d or 4) 5) 6) 7)	Wind: ASCE Vasd=101mp B=45ft; L=24 MWFRS (dirr end vertical H plate grip DC Building Des verifying app requirements Provide adeo This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and ar	7-22; Vult=130mp bh; TCDL=6.0psf; ft; eave=4ft; Cat. I ectional); cantileve eft and right expos DL=1.60 igner / Project eng lied roof live load s specific to the us quate drainage to ad nonconcurrent has been designed ad nonconcurrent has been designed n chord in all area by 2-00-00 wide will y other members.	bh (3-sec BCDL=6 II; Exp B er left and sed; Lurr gineer re- shown c e of this prevent v for a 10.0 with any f for a liv s where III fit betw	ond gust) .0psf; h=15ft; ; Enclosed; d right expose iber DOL=1.6 sponsible for overs rain loa truss compon water ponding) psf bottom other live load e load of 20.0 a rectangle veen the botto	ed ; 0 ding lent. ds. psf m					
FO ТО	RCES	(lb) - Maximum Com Tension 1-8=-34/15, 1-2=-98/	pression/Maximum /88. 2-3=-55/96.	8) 9) 10	Bearings are Refer to girde	assumed to be: J er(s) for truss to tr hanical connection	oint 8 SF uss conr a (by oth	P No.2 . lections. ers) of truss to	2					11
во	T CHORD	3-4=-505/438 7-8=-221/156, 5-7=-	169/82, 2-7=-386/484	ļ,	bearing plate 8 and 432 lb	capable of withst uplift at joint 4.	anding 4	32 lb uplift at	joint				JULIUS	LEE
WE	BS	5-6=-16/77, 4-5=-27/ 2-8=-515/427, 4-7=- 6-8=-38/185	/86 177/120, 3-7=-429/48	11) 39,	Hanger(s) or provided suff lb down and	other connection icient to support c 133 lb up at 1-7-4	device(s oncentra 1 on bott) shall be ated load(s) 39 om chord. Th	99 e			S. S. S. S.	CEN	SE
NO	2-ply truss	to be connected toget	her with 10d		design/select responsibility	tion of such conne of others.	ection de	vice(s) is the				*	NU 34	
2)	(0.131"x3" Top chord oc. Bottom ch staggered Web conn All loads a except if n CASE(S) s provided tu unless oth) nails as follows: s connected as follows ords connected as follows at 0-9-0 oc, 2x4 - 1 row ected as follows: 2x4 - rre considered equally oted as front (F) or bac section. Ply to ply conn o distribute only loads i erwise indicated.	:: 2x4 - 1 row at 0-9-0 ows: 2x6 - 2 rows w at 0-9-0 oc. 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ lections have been noted as (F) or (B),	LO 1)	AD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-3: Concentrate Vert: 7=-3	Standard of Live (balanced): ase=1.25 ads (lb/ft) =-60, 7-8=-50, 5-6 ed Loads (lb) 337 (F)	Eumber ≔-50, 4-	Increase=1.2 5=-50	25,		л	ulius Le	POLATE SONA SONA SONA SONA SONA SONA SONA SONA	OF DACINITION LENGTHIN LENGTHIN LENGTHIN

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J01	Jack-Closed	14	1	Job Reference (optional)	136050288

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59 ID:CDAEwBSO5Me2gxlX97peHxzx7Mz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-2-0-0 7-10-0 2-0-0 7-10-0 1.5x4 🛚 3 12 12 Г 8-11-13 X 10-2-15 4x6 2 1-1-13 4 $\overline{\otimes}$ 1.5x4 II 4x4 = 7-10-0

Scale = 1:51.1

_oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
FCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.19	4-5	>466	240	MT20	244/190
FCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.39	4-5	>233	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 57 lb	FT = 20%
LUMBER FOP CHORD BOT CHORD WEBS BRACING	2x4 SP SS 2x4 SP No.2 2x4 SP No.2		 Refer to gird Provide me bearing plat 5 and 118 ll LOAD CASE(S) 	der(s) for truss to chanical connect e capable of with o uplift at joint 4.) Standard	o truss con ion (by oth istanding 4	nections. ers) of truss 1 lb uplift at	to joint					
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex	eathing directly appli cept end verticals.	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 7-8-7 oc										
NEBS	1 Row at midpt	3-4										
REACTIONS	(size) 4= Mecha	anical, 5=0-3-8										

	Max Grav 4=350 (LC 17), 5=449 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	2-5=-373/177, 1-2=0/91, 2-3=-328/273,
	3-4=-310/293
BOT CHORD	4-5=-517/321
WEBS	2-4=-231/440
NOTES	

Max Horiz 5=281 (LC 11)

Max Uplift 4=-118 (LC 9), 5=-41 (LC 12)

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown 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 nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 5 SP No.2 .

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J01A	Jack-Open	10	1	Job Reference (optional)	136050289

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59 ID:k1csjrRmK2WB3nAKbQIPkjzx7N_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

Scale = 1:39.9

Plate Offsets (X, Y): [2:0-3-5,0-0-12]

														_
Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	0.12	4-8	>685	240	MT20	244/190	
TCDL		10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.19	4-8	>429	180			
BCLL		0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a			
BCDL		10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 32 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No 2x4 SP No Left 2x6 SF Structural Rigid ceilin (size) Max Horiz Max Uplift Max Grav	.2 .1 P No.2 1 wood shea g directly 2=0-3-8, 3 Mechanic 2=199 (LC 3=-77 (LC 2=415 (LC	I-6-0 athing directly applied applied. = Mechanical, 4= al C 12) C 12) C 1), 3=193 (LC 17),	 7) Provide me bearing pla 3. 8) This truss of structural v chord and the bottom LOAD CASE(S) 	echanical connection te capable of withsta design requires that wood sheathing be a 1/2" gypsum sheetro chord. S) Standard	(by oth anding 7 a minim pplied di ck be aj	ers) of truss t 7 lb uplift at j um of 7/16" rectly to the oplied directly	to joint top y to						
		4=127 (LC	C 3)											
FORCES	(lb) - Maxir Tension	num Com	pression/Maximum											
TOP CHORD	1-2=0/77,2	2-3=-605/3	307											
BOT CHORD	2-4=-691/4	84												
NOTES												MILLIN	111.	
 Wind: AS(Vasd=101) B=45ft; L= MWFRS (Zone1 1-0 exposed ; members Lumber D Building D verifying a requireme This truss chord live * This trus on the bot 3-06-00 ta chord and Bearings a 	CE 7-22; Vult mph; TCDL= =24ft; eave=4 directional) a 0-0 to 6-11-4; end vertical l and forces & OL=1.60 plat besigner / Pro applied roof lin ints specific to has been de tom chord in all by 2-00-00 any other mi	=130mph 6.0psf; Bf ft; Cat. II; nd C-C Zz zone; can left and rig MWFRS e grip DO ject engin ve load sh o the use signed for current wi lesigned fn all areas wide will embers.	(3-second gust) CDL=6.0psf; h=15ft; Exp B; Enclosed; one3 -2-0-0 to 1-0-0, tilever left and right ght exposed;C-C for for reactions shown; L=1.60 user responsible for iown covers rain load of this truss componer a 10.0 psf bottom th any other live load of a live load of 20.0p where a rectangle fit between the bottor bott 2 SP No.1.	ting ent. Is. psf						J.M.	alius Le	No 34	DA.GININ	
6) Refer to g	irder(s) for tr	uss to tru	ss connections.							16 D	5023 Sw ate:	ingley Ridge Rd. C	hesterfield, MO 63017	

January 14,2025

Job	Truss	Truss Type	Qty	Ply	Holloway	T 00050000
1224-054 with attic	J02	Jack-Open	2	1	Job Reference (optional)	136050290

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59 ID:k1csjrRmK2WB3nAKbQIPkjzx7N_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:32.9

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.50	Vert(LL)	0.15	6-7	>372	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25		BC	0.73	Vert(CT)	-0.15	6-7	>380	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.07	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code	FBC2023/T	PI2014	Matrix-AS							Weight: 29 lb	FT = 20%	
LUMBER TOP CHORD 3OT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood she except end verticals Rigid ceiling directly (size) 5= Mecha Max Horiz 7=199 (LC Max Uplift 5=-80 (LC Max Grav 5=173 (LC	t* 7-2:2x4 SP No.1 athing directly applie applied. anical, 7=0-3-8 C 12) C 12), 7=-2 (LC 12) C 17), 7=-349 (LC 1)	7) Pr be ar 8) Tr st d, ch th LOAD	rovide mech earing plate nd 80 lb upli his truss des ructural woo oord and 1/2 e bottom ch O CASE(S)	nanical connect capable of with ift at joint 5. sign requires th od sheathing bo 2" gypsum shee hord. Standard	tion (by oth nstanding 2 nat a minim e applied di etrock be ap	ers) of truss t Ib uplift at jo um of 7/16" rectly to the pplied directly	to iint 7 top y to						
FORCES	(lb) - Maximum Com Tension	pression/Maximum												
TOP CHORD	2-7=-192/16, 1-2=0/3 3-4=-90/0	82, 2-3=-220/97,												
BOT CHORD	6-7=-366/106, 5-6=0	0/0												
WEBS	2-6=-109/377, 3-6=-	230/285												
NOTES													11.	

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 5-0-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown 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 nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 7 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

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 property incorporate this design in the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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 trusses and truss systems, see **ANSI/TPI Valify** Criteria and DSP-22 available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

No 34869 No 348

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J03	Jack-Open	2	1	Job Reference (optional)	136050291

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59 ID:KSwj4pPt178dCJSmwlli65zx7N1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-0-0

Scale = 1:25.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.03	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	0.03	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 15 lb	FT = 20%
LUMBER			7) Provide med	chanical connection	on (by oth	ers) of truss	to					
TOP CHORD	2x4 SP No.2		bearing plat	e capable of with	standing 9	2 lb uplift at	joint					
BOT CHORD	2x4 SP No.1		5 and 83 lb	uplift at joint 4.								
WEBS	2x4 SP No.2		LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	3-0-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	с									
REACTIONS	(size) 4= Mecha	anical, 5=0-3-8										
	Max Horiz 5=236 (LC	C 12)										
	Max Uplift 4=-83 (LC	2 12), 5=-92 (LC 12)										
	Max Grav 4=71 (LC	17), 5=290 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	2-5=-300/314 1-2=0)/82 2-3=-110/0										
BOT CHORD	4-5=0/0	/02, 2 0= 110/0										
NOTES	10 0/0											
1) Wind AS	CE 7-22. Vult=130mph	(3-second gust)										
Vasd=101	1mph: TCDL=6.0psf: B	CDL=6.0psf: h=15ft:									11110	111,
B=45ft; L=	=24ft; eave=4ft; Cat. II;	Exp B; Enclosed;									IL ULIUS	LEE
MWFRS ((directional) and C-C Z	one3 -2-0-0 to 1-0-0	,							S.	CEA	10 11
Zone1 1-0	0-0 to 3-0-0 zone; canti	lever left and right								5		0 F
exposed ;	end vertical left and right	ght exposed;C-C for								-	· No. 04	000 1 2
members	and forces & MWFRS	for reactions shown	;						-	1	NO 34	809
Lumber D	OL=1.60 plate grip DO)L=1.60								*:		∧ :× =
2) Building D	Designer / Project engir	neer responsible for								:	1 1*	
verifying a	applied roof live load sr	nown covers rain loa	aing							D.	X 11 //L.	, Vna =
2) This trues	ents specific to the use	or this truss compor	ient.							TH		ADALLANS
chord live	load ponconcurrent wi	t a 10.0 psi bullom	de						1	-0	A WOIN	
4) * This true	s has been designed f	or a live load of 20 (us. Insf							3	A.LOP	10.55
on the bo	ttom chord in all areas	where a rectangle	,poi							1	30.	NON
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	om								ONA	LEIM
chord and	any other members		-								1111	mm.

4 on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Bearings are assumed to be: Joint 5 SP No.1 . 5)

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

NONAL EN Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J04	Jack-Open	2	1	Job Reference (optional)	T36050292

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59 ID:KSwj4pPt178dCJSmwIli65zx7N1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-0-0

Scale = 1:25.3

L oading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25	CSI TC	0.50	DEFL Vert(LL)	in 0.00	(loc) 4-5	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 8 lb	FT = 20%
LUMBER			7) Provide mec	hanical connection (by oth	ers) of truss t	to					
TOP CHORD	2x4 SP No.2		bearing plate	e capable of withstan	iding 2	01 lb uplift at	tjoint					
	2x4 SP No.2			upilit at joint 4.								
	2X4 SP NU.2		LUAD CASE(S)	Stanuaru								
	Structural wood she	athing directly applie	d or									
	1-0-0 oc purlins, exc	cept end verticals.										
30T CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	;									
REACTIONS	(size) 4= Mecha Max Horiz 5=146 (LC Max Uplift 4=-130 (L Max Grav 4=86 (LC	anical, 5=0-3-8 C 12) .C 1), 5=-201 (LC 12) 12), 5=327 (LC 1))									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
FOP CHORD	2-5=-180/213, 1-2=0	0/82, 2-3=-33/0										
30T CHORD	4-5=0/0											
NOTES												
1) Wind: ASC	E 7-22; Vult=130mph	(3-second gust)									mm	IIIII.
Vasd=101	mph; TCDL=6.0psf; B0	CDL=6.0pst; h=15ft;									M ILIUS	LENU
MWFRS (d	directional) and C-C Z	one3 zone: cantileve	r							11	S E A	1. S. 14
left and rig	ht exposed ; end vertion	cal left and right								3		SE
exposed;C	-C for members and for	orces & MWFRS for								5	·	
reactions s	shown; Lumber DOL=1	1.60 plate grip								1.1	HQ 34	869
DOL=1.60										*:		
 Building D 	esigner / Project engin	heer responsible for	ما ان م								× 1	
requirement	pplied roor live load sh	of this truss compon	ant						=	D	VIHN	
3) This truss	has been designed for	r a 10.0 psf bottom	ent.							J	. ASUM	DOAM
chord live	load nonconcurrent wi	th any other live load	ls.						1	-0	A.	A:SS
4) * This trus	s has been designed f	or a live load of 20.0	psf							1	COR	10.01
on the bott	om chord in all areas	where a rectangle								1	S	ENIN
3-06-00 ta	II by 2-00-00 wide will	fit between the botto	m								UNA	Linn
 Chord and Bearings a 	any other members.	int 5 SP No 2										III.
6) Refer to di	rder(s) for truss to tru	ss connections.							Ju	ilius Le iTek In	e PE No. 34869 c. DBA MiTel: US	A FL Cert 6634
,									10	5023 Sw	ingley Ridge Rd. C	Chesterfield, MO 63017

January 14,2025

Page: 1

Date:

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J05	Jack-Open	1	1	Job Reference (optional)	136050293

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59 ID:k1csjrRmK2WB3nAKbQIPkjzx7N_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3

3-3-12

Page: 1

4x6 **n** 6

2

5 4 1.5x4 II

2-1-15

12 12 Г

Scale = 1:26.4

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

4-6-14

1-1-13

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC2023/TPI2014	CSI TC BC WB Matrix-MR	0.63 0.09 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.01	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 13 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.2 2x4 SP No.2 2x4 SP No.2 Structural wood s 2-1-15 oc purlins, Rigid ceiling direc bracing. (size) $3 = Mec$ 5=0-3-4 Max Horiz $5=144$ Max Uplift $3=-24$ ((LC 12) Max Grav $3=25$ (I	heathing directly applie except end verticals. ly applied or 10-0-0 or hanical, 4= Mechanica LC 12) _C 9), 4=-4 (LC 9), 5= C 10), 4=30 (LC 3), 5=	5) Bearings 6) Refer to 7) Provide r bearing p 5, 24 lb u ed or LOAD CASE al, 36 =278	are assumed to be: girder(s) for truss to in nechanical connectio late capable of withs plift at joint 3 and 4 lt (S) Standard	, Joint 5 5 truss con in (by oth tanding 3 b uplift at	SP No.2 . nections. ers) of truss f 6 lb uplift at j joint 4.	to joint					
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASG Vasd=101 B=45ft; L= MWFRS (Zone1 1-0 exposed ; members Lumber D 2) Building D verifying a requireme 3) This truss chord live 4) * This trus on the bot 3-06-00 ta chord and	(b) - Maximum C Tension 2-5=-236/226, 1-2 4-5=0/0 CE 7-22; Vult=130m mph; TCDL=6.0psf; =24ft; eave=4ft; Cat. directional) and C-C 0-0 to 2-1-3 zone; ca end vertical left and and forces & MWFF OL=1.60 plate grip I besigner / Project en applied roof live load ents specific to the u has been designed load nonconcurrent is has been designed all by 2-00-00 wide w l any other members	empression/Maximum =0/91, 2-3=-76/42 bh (3-second gust) BCDL=6.0psf; h=15ft; II; Exp B; Enclosed; Zone3 -2-0-0 to 1-0-0 tillever left and right right exposed;C-C for shown covers rain loa e of this truss compor for a 10.0 psf bottom with any other live loa d for a live load of 20.0 s where a rectangle ill fit between the bottom	; n ; ading nent. uds. Dpsf om						J. M. D	Alius Le Market Street Alius Le Market Street	ULIUS CEA 40 34 94 94 94 94 94 94 94 94 94 94 94 94 94	FL Cert 6634 hesterfield, MO 63017
WAR	NING - Verify design para	neters and READ NOTES C	ON THIS AND INCLUDED M	ITEK REFERENCE PAGE I	MII-7473 re\	v. 1/2/2023 BEFC	DRE USE.					®

Job	Truss	Truss Type	Qty	Ply	Holloway	T00050004
1224-054 with attic	J06	Jack-Open	1	1	Job Reference (optional)	136050294

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59 ID:k1csjrRmK2WB3nAKbQIPkjzx7N_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-11-12

3-9-15

Scale = 1:31.5

Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL		10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.02	4-5	>999	180		
BCLL		0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL		10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 19 lb	FT = 20%
				7) Provido mor		on (by oth	ore) of truce	to					
	2v4 SD N	0.2		hearing plate	canable of with	standing 3	lb unlift at in	int 5					
	2x4 SP N	0.2		and 54 lb up	lift at joint 3.	otariaing o	ib upint ut je						
WEBS	2x4 SP N	0.2		LOAD CASE(S)	Standard								
BRACING	2.0.01			()	otandara								
TOP CHORD	Structural	wood she	athing directly applie	ed or									
	3-9-15 oc	purlins, e	xcept end verticals.										
BOT CHORD	Rigid ceili	ng directly	applied or 10-0-0 or	0									
	bracing.												
REACTIONS	(size)	3= Mecha	inical, 4= Mechanica	al,									
	Max Horiz	5=0-3-8	1 2)										
	Max Liplift	3=-54 (LC	(12) = -3 (1 - 12)										
	Max Grav	3=98 (I C	17) 4=65 (LC 12)	-312									
		(LC 1)	11), 1200 (20 0), 02	-012									
FORCES	(lb) - Max	imum Com	pression/Maximum										
	Tension												
	2-5=-268/	113, 1-2=0	/91, 2-3=-116/100										
	4-5=0/0											IIIIII	1111.
NOTES			(0))									JUS IUS	15.11
1) Wind: ASC	E 7-22; VU	-6 Opef: B	(3-second gust)									1. 10-	THE MAN
B-45ft I -	24ft: eave-	=0.0psi, b 4ft: Cat II:	Evo B: Enclosed:								3	CEA	SA. A
MWFRS (directional)	and C-C Z	one1 zone: cantileve	er						(2	1 M	S
left and rig	ht exposed	; end verti	cal left and right									· No 34	869 🧯 🚍
exposed;C	C-C for mem	bers and f	orces & MWFRS for								*		A 1×=
reactions s	shown; Lum	ber DOL=	1.60 plate grip							-			
DOL=1.60										=	ט:		
 Building D 	esigner / Pr	oject engir	eer responsible for	ماني م							J	JAL IT	6 .41
requirement	ppilea roor i nts specific	to the use	of this truss compor	ung							:0		:413
3) This truss	has been de	esigned for	r a 10.0 psf bottom	iont.							30	ALOP	101.51
chord live	load noncor	ncurrent wi	th any other live load	ds.							1		····NO.N
4) * This trus	s has been	designed f	or a live load of 20.0)psf								ONA	LEIN
on the both	tom chord ir	all areas	where a rectangle									in min	mm.
3-06-00 ta	II by 2-00-00	U wide will	tit between the botto	m						J	alius Le	ee PE No. 34869	
5) Bearings c	any other fi	to be:	pint 5 SP No 2							M	liTek In	nc. DBA MiTek USA	A FL Cert 6634
6) Refer to di	rder(s) for	truss to tru	ss connections							D	ate:	vingiey Klage Ka. C	nesterneta, MO 03017
., itoloi to gi											- 18 B. B. B.		lanuary 11 0005
													January 14,2025

Job	Truss	Truss Type	Qty	Ply	Holloway	T 00050005
1224-054 with attic	J07	Jack-Open	1	1	Job Reference (optional)	136050295

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59 ID:CDAEwBSO5Me2gxlX97peHxzx7Mz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Scale = 1:38.6

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

Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25		CSI TC BC	0.59 0.48	DEFL Vert(LL) Vert(CT)	in 0.07 -0.08	(loc) 4-5 4-5	l/defl >930 >822	L/d 240 180	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code	FBC2023	3/TPI2014	Matrix-AS	0.00		-0.07	3	n/a	n/a	Weight: 25 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD BBRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=101 B=45ft; L= MWFRS (c Zone1 1-0 exposed ; members : Lumber DC 2) Building D verifying D verifyin	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood sheat except end verticals. Rigid ceiling directly (size) 3= Mecha 5=0-3-8 Max Horiz 5=223 (LC Max Uplift 3=-85 (LC (LC 1) (lb) - Maximum Com Tension 2-5=-314/167, 1-2=0 4-5=0/0 CE 7-22; Vult=130mph mph; TCDL=6.0psf; BK 24ft; eave=4ft; Cat. II; directional) and C-C Z -0 to 5-5-3 zone; cantil end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO esigner / Project engin pplied roof live load sh nts specific to the use has been designed for load nonconcurrent wi s has been designed for tom chord in all areas si 1 by 2-00-00 wide will any other members. are assumed to be: , JG irder(s) for truss to trus	athing directly applied applied. inical, 4= Mechanical C 12) C 17), 4=97 (LC 3), 5: pression/Maximum /91, 2-3=-197/109 (3-second gust) CDL=6.0psf; h=15ft; Exp B; Enclosed; one3 -2-0-0 to 1-0-0, lever left and right ght exposed;C-C for for reactions shown; uL=1.60 neer responsible for nown covers rain load of this truss component in any other live load or a live load of 20.0p where a rectangle fit between the bottor bint 5 SP No.2. ss connections.	ing ent. s. psf m	Provide mech bearing plate 3. This truss det structural woo chord and 1/2 the bottom ch AD CASE(S)	hanical connection capable of withsta sign requires that a od sheathing be ap " gypsum sheetro hord. Standard	(by oth Inding 8 a minim oplied di ck be ap	ers) of truss f 5 lb uplift at j um of 7/16" rectly to the oplied directly	to joint top y to		Ji Mi Ic Di	thius Le titus Le titus Le titus Le titus Le	vergini. 23 lb	LEC SE SE SE SE SE SE SE SE SE SE	5
														<u> </u>

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J08	Jack-Closed	1	1	Job Reference (optional)	136050296

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59 ID:CDAEwBSO5Me2gxlX97peHxzx7Mz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Scale = 1:51.2

_oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
FCLL (roof)	20.0	Plate Grip DOL	1.25		тс	0.61	Vert(LL)	-0.12	6-7	>655	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25		BC	0.59	Vert(CT)	-0.25	6-7	>328	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.17	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code	FBC2023/T	PI2014	Matrix-AS							Weight: 52 lb	FT = 20%	
LUMBER TOP CHORD 3OT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shea	athing directly applie	7) Pr be 7 8) Ti st d, ch	rovide mech earing plate and 110 lb his truss de ructural wo hord and 1/2	hanical connect capable of with uplift at joint 6. sign requires th od sheathing be 2" gypsum shee pord	ion (by othe astanding 3 at a minime applied di strock be ap	ers) of truss 8 lb uplift at um of 7/16" rectly to the oplied directl	to joint top y to						

	Olluciului	i wood sheatining dheetiy appi
	except en	nd verticals.
BOT CHORD	Rigid ceili	ing directly applied.
REACTIONS	(size)	6= Mechanical, 7=0-3-8
	Max Horiz	7=260 (LC 9)
	Max Uplift	6=-110 (LC 9), 7=-38 (LC 12)
	Max Grav	6=325 (LC 17), 7=419 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	-
TOP CHORD	2-7351/	237 1-2-0/91 2-3-342/252

2-1001/201, 1-2-0/01, 2-0042/20
3-4=-4/0, 3-6=-291/325
6-7=-526/298, 5-6=0/0
2-6=-215/456

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 7-1-15 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown 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 nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 7 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

the bottom chord.

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J09	Jack-Open	1	1	Job Reference (optional)	136050297

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00 ID:CDAEwBSO5Me2gxlX97peHxzx7Mz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

2x4 SP No.2

bracing.

Max Uplift

Max Grav

Tension

4-5=0/0

Structural wood sheathing directly applied or 1-7-5 oc purlins, except end verticals.

3= Mechanical, 4= Mechanical,

3=-19 (LC 1), 4=-18 (LC 1), 5=-78

3=14 (LC 8), 4=17 (LC 3), 5=282

Rigid ceiling directly applied or 10-0-0 oc

(lb) - Maximum Compression/Maximum

2-5=-235/257, 1-2=0/82, 2-3=-68/27

5=0-3-8 Max Horiz 5=106 (LC 12)

(LC 12)

(LC 1)

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 1-7-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;

Lumber DOL=1.60 plate grip DOL=1.60 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

chord and any other members.

This truss has been designed for a 10.0 psf bottom

on the bottom chord in all areas where a rectangle

5) Bearings are assumed to be: , Joint 5 SP No.2 .

chord live load nonconcurrent with any other live loads.

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

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

WEBS

BRACING TOP CHORD

BOT CHORD

FORCES

NOTES

3)

4)

TOP CHORD

BOT CHORD

REACTIONS (size)

Scale = 1:23.2													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.50	Vert(LL)	0.00	4-5	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	4-5	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 10 lb	FT = 20%	
LUMBER			6) Refer to gird	ler(s) for truss to	o truss con	nections.							
TOP CHORD	2x4 SP No.2		Provide med	chanical connect	ion (by oth	ers) of truss	to						
BOT CHORD	2x4 SP No.2 bearing plate capable of withstanding 78 lb uplift at joint												

1-7-5

bearing plate capable of withstanding 78 lb uplift	
5 18 lb uplift at joint 4 and 19 lb uplift at joint 3	

LOAD CASE(S) Standard

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Page: 1

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only using the mathematical network of the intervention of the in

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J10	Jack-Open	1	1	Job Reference (optional)	136050298

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00 ID:CDAEwBSO5Me2gxlX97peHxzx7Mz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

Scale = 1:28.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0	* Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TP	I2014 Matrix-AS							Weight: 19 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2		7) Pro bea 5 a 8) Thia stru	vide mechanical conne- tring plate capable of wi nd 40 lb uplift at joint 3. s truss design requires tuctural wood sheathing l	ction (by oth ithstanding 2 that a minim be applied d	ers) of truss 28 lb uplift at um of 7/16" irectly to the	to joint top					
TOP CHORD	Structural wood s except end vertica	heathing directly appli als.	ed, chc the	brd and 1/2" gypsum she bottom chord.	eetrock be a	pplied directl	ly to					
BOT CHORD	Rigid ceiling direct	tly applied.	CASE(S) Standard									
REACTIONS	(size) 3= Mec 5=0-3-8 Max Horiz 5=153 Max Uplift 3=-40 (Max Grav 3=96 (L (LC 1)	chanical, 4= Mechanic 3 (LC 12) LC 12), 5=-28 (LC 12) .C 17), 4=68 (LC 3), 5	al, =317									
FORCES	(lb) - Maximum Co Tension	ompression/Maximum										
TOP CHORD	2-5=-272/206, 1-2	2=0/82, 2-3=-110/62										
BOT CHORD	4-5=0/0											
NOTES												
1) Wind: ASC	CE 7-22; Vult=130m	ph (3-second gust)									1111111	1111

- Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 3-11-6 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. 3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

North Hart L NS 34869 ONAL 111111

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

🗥 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 using the mathematical network of the intervention of the in

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J11	Jack-Open	1	1	Job Reference (optional)	136050299

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00 ID:CDAEwBSO5Me2gxIX97peHxzx7Mz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Scale = 1:36.6

Loading	(psf)	Spacing	2-0-0		CSI	0.50	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
	20.0		1.20		BC	0.50	Vert(CT)	-0.14	4-5 4-5	>909	240 180	WI120	244/190
BCLL	0.0*	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.05	- 3	n/a	n/a		
BCDL	10.0	Code	FBC2023	3/TPI2014	Matrix-AS		· · /					Weight: 27 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she except end verticals Rigid ceiling directly (size) 3= Mecha 5=0-3-8	athing directly applie applied. anical, 4= Mechanica	7) 8) Id, LO	Provide mec bearing plate 3. This truss de structural wo chord and 1/ the bottom c AD CASE(S)	hanical connec e capable of wit esign requires the od sheathing b 2" gypsum sheathord. Nord. Standard	tion (by oth hstanding 7 nat a minim e applied di etrock be ap	ers) of truss 4 lb uplift at um of 7/16" rectly to the oplied direct	to joint top ly to					

		5=0-3-8
	Max Horiz	5=201 (LC 12)
	Max Uplift	3=-74 (LC 12)
	Max Grav	3=176 (LC 17), 4=114 (LC 3) 5=399 (LC 1)
FORCES	(lb) - Max Tension	imum Compression/Maximum

 TOP CHORD
 2-5=-340/187, 1-2=0/82, 2-3=-170/97

 BOT CHORD
 4-5=0/0

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-4-2 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown 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 nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Job	Truss	Truss Type	Qty	Ply	Holloway	T 00050000
1224-054 with attic	J12	Jack-Closed	1	1	Job Reference (optional)	136050300

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00 ID:CDAEwBSO5Me2gxlX97peHxzx7Mz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Scale = 1:52.8

_oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
FCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.01	8-9	>999	240	MT20	244/190	
FCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.02	8-9	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	7	n/a	n/a			
3CDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 66 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2		 7) Provide mec bearing plate 9 and 74 lb u 8) This truss de structural wo chord and 10 	hanical connect capable of wi uplift at joint 7. esign requires to ood sheathing b 2" gypsum she	ction (by oth thstanding 4 hat a minim be applied di petrock be a	ers) of truss 3 lb uplift at um of 7/16" rectly to the	to joint top						
FOP CHORD	Structural wood she except end verticals Rigid ceiling directly	athing directly applie applied.	d, the bottom c LOAD CASE(S)	hord. Standard			ly to						

BOT CHORD	Rigid ceili	ng directly applied.
REACTIONS	(size)	7= Mechanical, 9=0-3-8
	Max Horiz	9=253 (LC 11)
	Max Uplift	7=-74 (LC 9), 9=-43 (LC 12)
	Max Grav	7=374 (LC 17), 9=481 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	2-9=-448/	203, 1-2=0/82, 2-3=-369/52,
	3-4=-201/	154, 4-5=-3/0, 4-7=-153/172
BOT CHORD	8-9480/	284 7-8-192/282 6-7-0/0

WEBS 3-7=-290/168, 3-8=0/186, 2-8=-2/291 NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 8-9-11 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60
 Building Designer / Project engineer responsible for verifying applied roof live load shown 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 nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 9 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J16	Jack-Closed	3	1	Job Reference (optional)	T36050301

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00 ID:7Lh6lsgVvFeLS1Wl5j1c8azx4Nc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Scale = 1:38.2

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

chord and any other members.

Bearings are assumed to be: Joint 7 SP No.2 .

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

5)

_oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25		тс	0.29	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190	
FCDL	10.0	Lumber DOL	1.25		BC	0.19	Vert(CT)	-0.02	5-6	>999	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.15	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS							Weight: 56 lb	FT = 20%	
			7)	Provide med	hanical connection	(by oth	ere) of truce	to						
	2x4 SP No 2		.,	bearing plate	capable of withsta	andina 5	3 lb uplift at	ioint						
BOT CHORD	2x4 SP No.2			7 and 11 lb u	plift at joint 5.	J								
NEBS	2x4 SP No.2		8)	This truss de	sign requires that	a minim	um of 7/16"							
BRACING				structural wo	od sheathing be a	pplied di	rectly to the	top						
FOP CHORD	Structural wood she	athing directly applie	d,	chord and 1/2	2" gypsum sheetro	ock be ap	oplied directl	y to						
	except end verticals		,	the bottom cl	hord.									
BOT CHORD	Rigid ceiling directly	applied.	LO	AD CASE(S)	Standard									
REACTIONS	(size) 5= Mecha	anical, 7=0-3-8												
	Max Horiz 7=158 (LC	C 9)												
	Max Uplift 5=-11 (LC	C 9), 7=-53 (LC 12)												
	Max Grav 5=332 (L0	C 1), 7=493 (LC 1)												
ORCES	(lb) - Maximum Com	pression/Maximum												
	Tension													
I OP CHORD	2-7=-449/196, 1-2=0)/58, 2-3=-406/42,												
	3-4=-113/82, 4-5=-1	10/99												
	0-7=-200/279, 5-0=-	109/331												
NEDS	3-3=-340/133, 3-0=0	5/174, 2-0=-100/302											1111	
NOTES		(C)										IL ULIUS	LEFU	
I) Wind: ASC	E 7-22; Vult=130mph	(3-second gust)									A.	CEA		
8=45ft	24ft: paye=4ft: Cat II:	Evp B: Enclosed:									5		0.E.	
MWERS (directional) and C-C Z	2.00 = 3 - 2 - 0 - 0 to $1 - 0 - 0$									-	No. 04		-
Zone1 1-0	-0 to 8-10-4 zone: can	tilever left and right									1	00 34	869	3
exposed;	end vertical left and rig	ght exposed;C-C for									*:		A .*	=
members a	and forces & MWFRS	for reactions shown;								=				=
Lumber D0	OL=1.60 plate grip DO)L=1.60								-	D	1 / Allan		
2) Building D	esigner / Project engir	neer responsible for									7	XSTMA	00AU:4	Ξ
verifying a	pplied roof live load sh	nown covers rain load	ding								-0		A	÷
requirement	his specific to the use	or this truss compon	ent.								1	OR	Dichis	
chord live	load nonconcurrent wi	i a 10.0 psi bollom ith any other live logo	łe								11		ENUN	
1) * This trus	s has been designed f	for a live load of 20.0	nsf									ONA	LEIM	
on the bott	tom chord in all areas	where a rectangle	P.0.									· · · · · · · · · · · · · · · · · · ·	IIII.	
3-06-00 ta	ll by 2-00-00 wide will	fit between the botto	m							Ju	lius Le	e PE No. 34869		
											Tal In	DDA MCTAL UCA	EL Cant 6624	

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J18	Jack-Closed	4	1	Job Reference (optional)	136050302

5-7-1

3-4-13

-2-0-0 |1-2-0|2-2-4| 2-0-0 |1-2-0|1-0-4|

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00 ID:TJU?LZkejnGeZoOGuGdnrezx4NX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-0-0

3-4-15

3x5 = 6x6 🞜 3x4 = 1-2-0 2-4-0 5-7-1 9-0-0 1-2-0 1-2-0 3-3-1 3-4-15 2-0-0 CSI DEFL l/defl L/d PLATES in (loc) тс 1.25 0.29 Vert(LL) 0.03 8-9 >999 240 MT20 56 lb

GRIP

244/190

FT = 20%

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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
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 fabrications storage distinguishing and project and trues systems sae ANS/ITP11 Quality Criteria and DSR-22 available from Truss Plate Institute (www.tpinst.
and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Scale = 1:49

Loading

TCLL (roof)

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

(psf)

20.0

Spacing

Plate Grip DOL

TCDL	10.0	Lumber DOL	1.25		BC	0.40	Vert(CT)	-0.05	8-9	>999	180	
BCLL	0.0*	Rep Stress Incr	YES		WB	0.11	Horz(CT)	0.03	7	n/a	n/a	
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS							Weight:
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shear except end verticals. Rigid ceiling directly a (size) 7= Mechan Max Horiz 12=145 (LC Max Uplift 7=10 (LC Max Grav, 7=332 (LC	thing directly applied applied. iical, 12=0-3-8 C 9) 9), 12=-52 (LC 12) 1) 12=493 (I C 1)	4) 5) 6, 6) 7) 8)	* This truss h on the bottor 3-06-00 tall b chord and ar Bearings are Refer to gird Provide mec bearing plate 12 and 10 b This truss de structural wo chord and 1/	as been design n chord in all ar by 2-00-00 wide y other membe er(s) for truss t hanical connect e capable of with uplift at joint 7. sign requires th od sheathing be 2" gypsum sheat	ned for a liv reas where e will fit betwers. e: Joint 12 S o truss con tion (by oth hstanding S nat a minim e applied d etrock be a	e load of 20. a rectangle veen the both SP No.2 . nections. ers) of truss 52 lb uplift at um of 7/16" irectly to the pplied directl	Opsf com to joint top y to				
FORCES	(lb) - Maximum Comp	pression/Maximum	LC	DAD CASE(S)	Standard							
TOP CHORD	2-12=-447/187, 1-2=0 3-4=-362/0, 4-5=-419, 6-7=-75/71	0/58, 2-3=-246/0, /49, 5-6=-87/62,										
BOT CHORD	11-12=-178/156, 10-1 9-10=-67/134, 4-9=-4 7-8=-181/360	1=-177/327, 0/144, 8-9=-404/867	,									
WEBS	5-7=-417/167, 5-8=0/2 3-11=-239/60, 2-11=-	222, 4-8=-514/225, 55/337, 3-10=-86/10)8								S. S	
NOTES 1) Wind: ASC Vasd=101	CE 7-22; Vult=130mph (Imph: TCDI =6 0psf: BC	3-second gust)									*	N

- B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-2-0, Zone1 1-2-0 to 8-10-4 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	M01	Monopitch	1	1	Job Reference (optional)	136050303

4-10-1

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00 ID:R0PM90vDQQ?rqUuFjQQxBXzx7HD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-11-9

Page: 1

-			
C		1.50	
- 01:24	IH =	1 :59	

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	3/TPI2014	CSI TC BC WB Matrix-AS	0.42 0.22 0.13	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 71 lb	GRIP 244/190 FT = 20%
UMBER OP CHORD 30T CHORD VEBS 3RACING OP CHORD 30T CHORD VEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shee except end verticals. Rigid ceiling directly 1 Row at midpt (size) 4=9-11-9, Max Horiz 6=266 (LC Max Uplift 4=-127 (LI Max Grav 4=281 (LC 6=246 (LC (lb) - Maximum Com Tension	athing directly applie applied. 3-4 5=9-11-9, 6=9-11-9 2 9), 5=-2 (LC 12) 2 17), 5=322 (LC 1), 2 18) pression/Maximum	6) 7) 8) d,	All bearings a Provide mecl bearing plate 4 and 2 lb up This truss de structural wo chord and 1/ the bottom cl DAD CASE(S)	are assumed to I hanical connectii capable of with lift at joint 5. sign requires tha od sheathing be "gypsum sheet ord. Standard	be SP No. on (by oth standing 1 at a minim applied d trock be a	2 . ers) of truss 27 lb uplift a um of 7/16" irectly to the oplied directl	to t joint top y to					
	1-2232/145 2-3	202/162 3-4155/1	60										

TOP CHORD 1-2=-232/145, 2-3=-202/162, 3-4=-155/160, 1-6=-209/64 BOT CHORD 5-6=-463/398, 4-5=-236/218

WEBS 2-5=-220/66, 2-4=-162/206, 1-5=-183/231 NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 10-1-5 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

No 34869

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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60 responsible for covers rain loading is truss component

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	M02	Monopitch Supported Gable	1	1	Job Reference (optional)	T36050304

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00 ID:1_n4fcHg7yvR2FmD1QTCy4zx7Gk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:41.5

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

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.25		TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL		10.0	Lumber DOL	1.25		BC	0.15	Vert(CT)	n/a	-	n/a	999			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.06	Horz(CT)	0.00	9	n/a	n/a			
BCDL		10.0	Code	FBC202	3/TPI2014	Matrix-AS		- (-)					Weight: 75 lb	FT = 20%	
				1)	Wind [.] ASCE	7-22: Vult=130mp	h (3-sec	ond aust)							
	2v4 SP N	0.2		.,	Vasd=101mm	h: TCDL=6.0psf: E	3CDL=6	.0psf: h=15ft:							
	2x4 SP N	0.2			B=45ft: L=24	ft: eave=2ft: Cat. I	: Exp B	Enclosed:							
WEBS	2x4 SP N	0.2			MWFRS (dire	ectional) and C-C 2	Zone3 z	one: cantileve	er						
OTHERS	2x4 SP N	0.2 0.2			left and right	exposed ; end ver	tical left	and right							
WEDGE	Left: 2x4 S	SP No.2			exposed;C-C	for members and	forces &	MWFRS for							
BRACING					reactions sho	wn; Lumber DOL=	=1.60 pla	ate grip							
	Structural	wood she	athing directly applied	Ч	DOL=1.60										
	except en	d verticals	attining anootiy applied	2)	Truss design	ed for wind loads i	n the pla	ane of the true	SS						
BOT CHORD	Rigid ceili	na directly	applied.		only. For stu	ds exposed to win	d (norm	al to the face)),						
REACTIONS	(size)	2=12-0-0	9=12-0-0 10=12-0-0)	see Standard	Industry Gable E	nd Detai	ls as applicat	ole,						
	(0120)	11=12-0-0	12=12-0.0, 10=12-0.0	, 0-0	or consult qu	alified building des	signer as	s per ANSI/TF	PI 1.						
		14=12-0-0)	3)	Building Des	igner / Project eng	ineer res	sponsible for							
	Max Horiz	2=189 (LC	. 11)		verifying app	lied roof live load s	shown co	overs rain loa	ding						
	Max Uplift	2=-51 (LC	12), 9=-19 (LC 9).		requirements	specific to the use		truss compor	ient.						
		10=-14 (L	C 12). 11=-11 (LC 12	2). 5)	All plates are	1.5X4 IVI 20 Unles	s other	vise indicated	1.						
		12=-11 (L	C 12), 13=-13 (LC 12	2) 5)	Gable require		Sm chor	u bearing.							
	Max Grav	2=269 (LC	C 1), 9=68 (LC 17),	γ (0) (1)	Gable studs	spaced at 2-0-0 00	;. ar a 10 () nof hottom						10.00	
		10=166 (L	.C 1), 11=160 (LC 1),	, /)	this truss ha	s been designed in	vith any	othor live loo	de					1111	
		12=157 (L	C 1), 13=171 (LC 1),	0)	* This trues h		for a liv		us. Incf				ILIUS	LEFU	
		14=98 (LC	3)	0)	on the botton	n chord in all areas	where	e ioau oi 20.0 a rectande	psi				CEA	1.1.1	
FORCES	(lb) - Max	imum Com	pression/Maximum		3-06-00 tall h	v 2-00-00 wide wil	l fit hetw	een the botto	m			3		SF.	
	Tension				chord and an	v other members	i in both		////			5	1		
TOP CHORD	1-2=0/50,	2-3=-362/2	200, 3-4=-320/178,	9)	All bearings a	are assumed to be	SP No	2			-	2.1	• HQ 34	869 🧯 💈	
	4-5=-274/	169, 5-6=-2	215/150, 6-7=-159/13	37, ⁰ , 10) Provide mec	hanical connection	(by oth	ers) of truss to	0			*:		∧ :★ =	
	7-8=-84/9	6, 8-9=-46/	46		bearing plate	capable of withsta	andina 1	9 lb uplift at i	oint		=				
BOT CHORD	2-14=-90/	117, 13-14	=-88/117, 12-13=-88	/117,	9, 14 lb uplift	at joint 10, 11 lb u	plift at ic	oint 11, 11 lb	uplift			70:		Ki in	
	11-12=-88	3/117, 10-1	1=-88/117, 9-10=-88	/117	at joint 12, 13	B lb uplift at joint 13	and 51	lb uplift at joi	int		-	D	X	That : III =	Ş
WEBS	7-10=-130	0/144, 6-11	=-120/121,		2.	. ,		. ,				10	- Marcol M	:415	
	5-12=-119	9/108, 4-13	=-126/106, 3-14=-89	/79 11) This truss de	sign requires that	a minim	um of 7/16"				3.4	N.S.	0 P .: 2 .	
NOTES					structural wo	od sheathing be a	oplied di	rectly to the t	ор			11	COR	G	
					chord and 1/2	2" gypsum sheetro	ck be ap	oplied directly	' to			1	S	ENIN	

THIN WINNING Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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January 14,2025

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 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.sbcscomponents.com)

the bottom chord. LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	M03	Jack-Closed	1	1	Job Reference (optional)	136050305

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00 ID:f3BqjT?VqjwcZxX_ATK99Tzx89v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

Scale = 1:62.5				4 10 1		010							
oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.52	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.05	4-5	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 77 lb	FT = 20%	

L	U	М	в	E	I	R
			-			

Loading TCLL (roof TCDI BCLL BCDL

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x4 SP N	0.2
BRACING		
TOP CHORD	Structural except en	l wood sheathing directly applied, nd verticals.
BOT CHORD	Rigid ceili	ing directly applied.
WEBS	1 Row at	midpt 3-4
REACTIONS	(size)	4= Mechanical, 6= Mechanical
	Max Horiz	6=294 (LC 11)
	Max Uplift	4=-121 (LC 9)
	Max Grav	4=449 (LC 17), 6=422 (LC 18)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	1-6=-386/ 3-4=-158/	'93, 1-2=-386/79, 2-3=-209/171, '162
BOT CHORD	5-6=-499/	402, 4-5=-243/318
WEBS	1-5=-91/2	75, 2-5=-1/176, 2-4=-337/227

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 10-1-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for 2) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. 3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 4)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 5)

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 4

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

LOAD CASE(S) Standard

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	T 00050000
1224-054 with attic	M04	Jack-Closed	4	1	Job Reference (optional)	136050306

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:01 ID:BsdRW8_t3PolynyodmpwcFzx89w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Scale = 1:61.8

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [3:0-2-8,0-3-0], [4:0-0-11,0-1-8]

Loading	(psf) 20.0	Spacing Plate Grip DOI	2-0-0 1 25		CSI TC	0.51	DEFL Vert(LL)	in -0.03	(loc) 5-6	l/defl >999	L/d 240	PLATES	GRIP 244/190	
	10.0	Lumber DOI	1.25		BC	0.31	Vert(CT)	-0.05	5-6	>999	180	11120	211/100	
BCLL	0.0*	Rep Stress Incr	YES		WB	0.33	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS		()		•			Weight: 82 lb	FT = 20%	
LUMBER "OP CHORD 30T CHORD WEBS BRACING TOP CHORD 30T CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood sheat except end verticals. Rigid ceiling directly 1 Row at midpt (size) 5= Mecha Max Horiz 7=317 (LC Max Uplift 5=-117 (LI Max Grav 5=445 (LC	athing directly applie applied. 4-5 nical, 7=0-3-8 2 9) C 9), 7=-33 (LC 12) 2 17), 7=541 (LC 1)	6) 7) 8) d, LO	Refer to gird Provide mec bearing plate 7 and 117 lb This truss de structural wo chord and 1/ the bottom c AD CASE(S)	er(s) for truss to hanical connecti e capable of with uplift at joint 5. sign requires tha od sheathing be 2' gypsum shee hord. Standard	truss conn on (by othe standing 3 at a minimu applied di trock be ap	ections. ers) of truss i 3 lb uplift at j um of 7/16" rectly to the pplied directly	to joint top y to						
ORCES	(lb) - Maximum Com Tension	pression/Maximum												
FOP CHORD	2-7=-496/196, 1-2=0 4-5=-155/158	/82, 2-4=-399/169,												
BOT CHORD	6-7=-518/400, 5-6=-2	233/313											11.	
NEBS	2-6=-95/299, 3-6=-1/	188, 3-5=-331/214										MUNUS.	1.111	
NOTES												JULIO	SEE 11	
 Wind: ASC Vasd=101 B=45ft; L= MWFRS (Zone1 1-0 exposed ; members Lumber D 	CE 7-22; Vult=130mph mph; TCDL=6.0psf; BG :24ft; eave=4ft; Cat. II; directional) and C-C Zc t-0 to 10-1-3 zone; cani end vertical left and rig and forces & MWFRS : OL=1.60 plate grip DO	(3-second gust) CDL=6.0psf; h=15ft; Exp B; Enclosed; nne3-2-0-0 to 1-0-0, tilever left and right yht exposed;C-C for for reactions shown; L=1.60									TH * PR	NO 34		

- Building Designer / Project engineer responsible for verifying applied roof live load shown 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 nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 7 SP No.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.sbcscomponents.com)

January 14,2025

SIONAL

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Julius Lee PE No. 34869

Date:

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	PB01x	Piggyback	1	2	Job Reference (optional)	T36050307

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:01

Scale = 1:46											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	ТС	0.02	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	11	n/a	n/a	
BCDI	10.0	Code	EBC2023/TPI2014	Matrix-AS							Woight ?

BCDL		10.0	Code	FBC202	3/TPI2014
LUMBER TOP CHORD BOT CHORD OTHERS BRACING	2x4 SP N 2x4 SP N 2x4 SP N	0.2 0.2 0.2		1)	2-ply trus Top chor follows: 2 Bottom c follows: 2
TOP CHORD	Structural	wood she	athing directly app	lied. 2)	All loads except if
REACTIONS	Rigid celli (size)	1=15-7-11 11=15-7-1 13=15-7-1 15=15-7-1	applied. , 2=15-7-11, 10=1 1, 12=15-7-11, 1, 14=15-7-11, 1, 16=15-7-11,	5-7-11, 3)	CASE(S) provided unless of Unbaland this desig
	Max Horiz Max Uplift	17=15-7-1 1=128 (LC 1=-93 (LC 13=-35 (L0 16=-30 (L0 18=-31 (L0	1, 18=15-7-11 2 11) 10), 12=-32 (LC 1 C 12), 14=-30 (LC C 12), 17=-35 (LC C 12)	4) 12), 12), 12),	Wind: AS Vasd=10 B=45ft; L MWFRS Zone1 3-
	Max Grav	1=97 (LC 10=93 (LC 12=154 (L 14=173 (L 16=174 (L 18=154 (l	(LC 17) (11), 2=116 (LC 17) (C 17), 11=7 (LC 17) (C 18), 13=172 (LC (C 18), 15=124 (LC (C 17), 17=172 (LC (C 17), 17=172 (LC	'), '), C 18), C 17), 5) C 17), 5)	12-5-7 to end vertia forces & DOL=1.6 Truss de only. For
FORCES	(lb) - Max	imum Com	pression/Maximun	n	or consul
TOP CHORD	1-2=-159/ 4-5=-94/6 7-8=-64/6	(168, 2-3=- 8, 5-6=-94/ 9, 8-9=-77/	102/99, 3-4=-106/8 /124, 6-7=-94/125, /41, 9-10=-103/60,	6) 30, 7)	Building verifying requirem All plates
BOT CHORD	2-18=-53/ 16-17=-53 14-15=-53	/103, 17-18 3/103, 15-1 3/103, 13-1 3/103, 13-1	=-53/103, 6=-53/103, 4=-53/103, 2=-53/103	8) 9) 10	Gable ree Gable stu) This trus chord live
WEBS	6-15=-99/ 3-18=-114 8-13=-132	/24, 5-16=- 4/103, 7-14 2/93, 9-12=	134/105, 4-17=-13 =-133/106, -113/103	11/93, ¹¹	on the bo 3-06-00 t chord an
NOTES				12) All bearir

2-ply truss to be connected together as follows: 1) Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.

Matrix-AS

- All loads are considered equally applied to all plies, 2) except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) 4) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-8-6 to 3-8-6, Zone1 3-8-6 to 8-5-7, Zone2 8-5-7 to 12-5-7, Zone1 12-5-7 to 16-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 8)
- Gable studs spaced at 2-0-0 oc. 9) 10) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 11) * 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. 12) All bearings are assumed to be SP No.2 .
- Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

Page: 1

GRIP

Weight: 170 lb

bearing plate capable of withstanding 30 lb uplift at joint

uplift at joint 14, 35 lb uplift at joint 13, 32 lb uplift at joint

structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to

16, 35 lb uplift at joint 17, 31 lb uplift at joint 18, 30 lb

13) Provide mechanical connection (by others) of truss to

14) This truss design requires that a minimum of 7/16"

15) See Standard Industry Piggyback Truss Connection

Detail for Connection to base truss as applicable, or

12 and 93 lb uplift at joint 1.

consult qualified building designer.

and the second second

the bottom chord.

LOAD CASE(S) Standard

244/190

FT = 20%

ON
Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	PB02	Piggyback	1	2	Job Reference (optional)	136050308

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:01 ID:VRwgCx0ueSvs?DqgyED_kIzx8Zi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-4-6



7-4-6

						1											
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL (roof)		20.0	Plate Grip DOL	1.25		TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190			
TCDL		10.0	Lumber DOL	1.25		BC	0.16	Vert(TL)	n/a	-	n/a	999					
BCLL		0.0*	Rep Stress Incr	YES		WB	0.04	Horiz(TL)	0.00	20	n/a	n/a					
BCDL		10.0	Code	FBC20	23/TPI2014	Matrix-AS							Weight: 182 lb	FT = 20%			
LUMBER TOP CHORD	2x4 SP N	o.2		1) 2-ply truss to (0.131"x3") r	be connected toge ails as follows:	ether wi	th 10d		13) Pro bea	vide me aring plat	chanic te capa	al connection (by able of withstandi	others) of truss to ng 1 lb uplift at joir	o nt 2,		
BOT CHORD WEBS	2x4 SP N 2x4 SP N	0.2 0.2			Top chords o oc. Bottom chord	connected as follow	s: 2x4 ·	• 1 row at 0-9•	-0	2 lb join 1 lb	uplift at t 14, 93	joint 1 Ib uplit	1, 49 lb uplift at jo it at joint 1, 421 lb	oint 12, 32 lb uplift uplift at joint 10 a	t at and		
OTHERS	2x4 SP N	0.2			0-9-0 oc		10w5. 2	x4 - 110w at		14) This truss design requires that a minimum of 7/16"							
BRACING TOP CHORD BOT CHORD	Structura Rigid ceil	I wood shea	athing directly applied applied	l. 2	Web connec All loads are except if note	Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD								d directly to the to e applied directly	op to		
JOINTS	1 Brace a 16	at Jt(s): 15,			CASE(S) see	ction. Ply to ply con	nection	s have been		15) See	Standa	rd Ind	ustry Piggyback T	russ Connection			
REACTIONS	(size)	1=15-7-11	1, 2=15-7-11, 9=15-7-	11,	unless other	wise indicated.	noted	as (F) or (B),		cor	isult qua	lified b	uilding designer.	as applicable, or			
		10=15-7-1 12=15-7-1 14=15-7-1	1, 11=15-7-11, 1, 13=15-7-11, 1	3 4	 Unbalanced this design. Wind: ASCE 	roof live loads have 7-22; Vult=130mpl	e been o n (3-seo	considered fo	r	LOAD	CASE(S) Sta	ndard				
	Max Horiz Max Uplift	1=128 (LC 1=-93 (LC 10=-421 (5 11) 5 10), 2=-1 (LC 11), LC 3), 11=-2 (LC 12),		Vasd=101mp B=45ft; L=24 MWFRS (dir	oh; TCDL=6.0psf; E ft; eave=4ft; Cat. II ectional) and C-C Z	CDL=6 ; Exp B Cone3 0	.0psf; h=15ft; ; Enclosed; -8-3 to 3-8-3.	;								
	Max Grav	12=-49 (L 1=96 (LC 9=663 (LC	C 12), 14=-32 (LC 12) 11), 2=124 (LC 17), C 3), 10=-61 (LC 12),)	Zone1 3-8-3 12-4-12 to 10	to 8-5-7, Zone2 8-5 6-2-10 zone; cantile	5-7 to 1 ever left	2-4-12, Zone and right	1				mun	1111			
		11=458 (L 13=148 (L	.C 1), 12=109 (LC 17) .C 23), 14=151 (LC 17), 7)	members an	d forces & MWFRS		ctions shown	ı;				JULIUS	LEE			
FORCES	(lb) - Max Tension	imum Com	pression/Maximum	5) Truss design	ed for wind loads in	n the pla	ane of the true	ss			Ser.	CEN	SE.			
TOP CHORD	1-2=-159/ 4-5=-58/7	/169, 2-3=-4 /2, 5-6=-45/	85/84, 3-4=-93/64, /74, 6-7=-31/73,		see Standard or consult qu	d Industry Gable Er alified building des	nd Deta igner a	ils as applical s per ANSI/TF	ble, PI 1.			+	No 34	869			
	7-8=-58/4	1, 8-9=-23	4/61, 9-10=-5/281	6) Building Des	igner / Project engi	neer re	sponsible for			-				=		
BOICHORD	2-14=-58/	//1, 13-14= 7/71 0 11	-58/71, 12-13=-57/71	,	verifying app	lied roof live load s	hown c	overs rain loa	ding		-	10:	Villes	Last in	=		
WEBS	6-11-12=-0	7/71,9-11= 6/0_11_16=	-239/143 -216/176 8-16192/	125 -	requirements	s specific to the use	e of this	truss compor	nent.		-	D	selle	·····	Ξ		
WEBS	4-15=-66	/88 11-15=	-67/89 5-15=-122/95	120, 7) All plates are	e 1.5x4 MT20 unles	s other	wise indicated	d.			10	OFAIL	14			
	12-15=-1	21/93, 4-13	s=-94/0, 3-14=-116/10	, 8 1, 9	Gable requir	spaced at 2-0-0 oc.	. CHOI	u bearing.				11	X LOP	04:13			
	7-16=-40	/36		1	0) This truss ha	s been designed fo	or a 10.0) psf bottom				11	S	····NO IN			
NOTES				1	chord live loa 1) * This truss h	ad nonconcurrent w has been designed	ith any for a liv	other live loa e load of 20.0	ds. Opsf				ONA	LEIM			
					on the bottor	n chord in all areas	where	a rectangle				1	DE N. 24960				

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

chord and any other members. 12) All bearings are assumed to be SP No.2 . Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	PB03	Piggyback	1	1	Job Reference (optional)	136050309

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:01 ID:VRwgCx0ueSvs?DqgyED_kIzx8Zi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-0-10 11-1-5 10-5-12 -0-7-9 5-6-14 4-10-14 9-5-2 3-10-4 3-10-4 0-7-9 0-8-0 1-0-10 0-7-9 1-0-10 3-8-8 3-8-8 0-1-0 H 4x4= 4x4 = 4 5 f 10 10 21 22 4 4-7-6 4-5-1.5x4 1.5x4 **I** 20³ ⁶23 3 2 0-4-13 å 4 12 1110 a 3x4= 1.5x4 🛚 1.5x4 u 1.5x4 u 1.5x4 u 3x4 = 1-0-10 5-5-2 10-5-12 5-0-10 9-5-2 4-0-0 4-0-0 1-0-10 0-4-8 1-0-10

Scale = 1:54.8

Plate Offsets (X, Y):	[2:0-2-1,0-1-8]	, [4:0-2-0,0-1-13]	, [5:0-2-0,0-1-13],	[7:0-2-1,0-1-8]
-----------------------	-----------------	--------------------	---------------------	-----------------

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.25		TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.25		BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.05	Horz(CT)	0.00	17	n/a	n/a		
BCDL		10.0	Code	FBC20	23/TPI2014	Matrix-AS							Weight: 52 lb	FT = 20%
LUMBER				2)	Wind: ASCE	7-22; Vult=130mp	ph (3-seo	cond gust)		LOAD	CASE(S)	Sta	ndard	
TOP CHORD	2x4 SP No	.2			Vasd=101mp	oh; ICDL=6.0pst;	BCDL=6	5.0pst; h=15ft;						
BOT CHORD	2x4 SP No	0.2			B=45ft; L=24	ft; eave=4ft; Cat.	II; EXP B	; Enclosed;	2					
WEBS	2x4 SP No	.2						-2-12 10 3-2-1	Ζ,					
BRACING					2011 e1 3-2-12 10 3-0-7, 2011 e3 3-0-7 10 0-2-7, 2011 e2 6-27 to 10-5-6 7 2014 10-5-6 to 11-6-3 200e cantilaver									
TOP CHORD	Structural	wood she	athing directly applie	ed.	left and right	exposed : end ve	rtical left	and right						
BOT CHORD	Rigid ceilir	ng directly	applied.		exposed:C-C	for members and	forces	& MWFRS for						
REACTIONS	(size)	2=10-5-12	2, 7=10-5-12, 9=10-	5-12,	reactions sho	own; Lumber DOL	=1.60 pl	ate grip						
		10=10-5-1	12, 11=10-5-12,		DOL=1.60									
	Max Horiz	2	12	3)	 Truss design 	ed for wind loads	in the pl	ane of the true	SS					
	Max Unlift	2=-61 (LC	: 10) 7=-39 (I C 11)		only. For stu	nly. For studs exposed to wind (normal to the face),								
	max opin	9=-60 (LC	: 12), 11=-6 (I C 9)		see Standard	see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.								
		12=-60 (L	C 12)	4	or consult qu									
	Max Grav	2=42 (LC	9), 7=32 (LC 8), 9=3	301 ⁴	verifying app	lied roof live load	shown c	overs rain loa	dina					
		(LC 18), 1	0=201 (LC 24), 11=	201	requirements	s specific to the us	shown c	truss compor	hent					
		(LC 23), 1	2=303 (LC 17)	5	Provide adec	puate drainage to	prevent	water ponding	1.					
FORCES	(lb) - Maxir	mum Com	pression/Maximum	6	Gable require	es continuous bot	tom choi	d bearing.	,				IIIIII	lin.
	Tension			7	Gable studs	spaced at 4-0-0 o	с.	0					11 JUIS	1
TOP CHORD	1-2=0/15, 2	2-3=-100/	96, 3-4=-118/82,	8	This truss ha	s been designed	for a 10.	0 psf bottom					JULIOU	LEE "
	4-5=-55/10	06, 5-6=-1	11/87, 6-7=-101/72,		chord live loa	ad nonconcurrent	with any	other live loa	ds.			S.	CEA	182. 1
	7-0=0/15	71 11-12-	-28/71 10-1127/7	9)	* This truss h	has been designed	d for a liv	e load of 20.0)psf		6	5	1. A.	
BOT CHORD	9-10=-24/7	71 7-9=-2	4/71	1,	on the bottor	n chord in all area	s where	a rectangle					No 34	869
WEBS	4-11=-152	/35. 5-10=	-152/24. 3-12=-258	/228.	3-06-00 tall t	by 2-00-00 wide w		veen the botto	om		-	4		A 1 + E
	6-9=-258/2	228		, 1/		are accurred to be		2			- 3	<u></u> :		
NOTES				1	1) Provide med	hanical connection	n (hv oth	ers) of truss to	0		- 3	-	HALL.	
1) Unbalance	ed roof live lo	ads have	been considered for	r .	bearing plate	capable of withst	tanding 6	61 lb uplift at i	oint		-	1	UNULAAL	
, this desig	n.				2, 39 lb uplift	at joint 7, 6 lb upl	lift at join	t 11, 60 lb up	lift at			-0		1415
					joint 12, 60 lb	o uplift at joint 9, 6	1 lb uplif	t at joint 2 and	d 39			36	N	04:25
					lb uplift at joi	nt 7.						1	VOR.	GN
				1:	This truss de	sign requires that	a minim	um of 7/16"					SIGNA	ENIN
					structural wo	od sheathing be a	applied d	irectly to the t	ор				WINA	- internet
					chord and 1/	2" gypsum sheetre	ock be a	pplied directly	/ to					1111

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or

consult qualified building designer.

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025

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the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	PB04	Piggyback	2	1	Job Reference (optional)	136050310

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:01 ID:zdU3QH1WPI1jdNOsWxkDHWzx8Zh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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

Scale = 1:40.5

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.25		TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.25		BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.06	Horz(CT)	0.00	15	n/a	n/a		
BCDL		10.0	Code	FBC2	023/TPI2014	Matrix-AS							Weight: 47 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No 2x4 SP No 2x4 SP No Structural Rigid ceili (size) Max Horiz Max Uplift Max Grav	5.2 5.2 wood she ng directly 2=10-5-12 9=10-5-12 2=-93 (LC 2=-46 (LC 8=-59 (LC 2=72 (LC (LC 18), 9	athing directly applie applied. 2, 6=10-5-12, 8=10-5 2, 10=10-5-12 : 10), 6=-27 (LC 11), : 12), 10=-59 (LC 12) 18), 6=58 (LC 17), 8 ==256 (LC 1), 10=300	ed. 5-12,) 3=299 0 (LC	 Building Deverifying aprequirement Gable requi Gable studs Gable studs This truss h chord live lc * This truss on the botto 3-06-00 tall chord and a All bearings Provide meripate 2, 27 lb upli 	signer / Project er plied roof live load is specific to the u res continuous bc spaced at 4-0-0 as been designed man concurren has been designed m chord in all are by 2-00-00 wide y 2-00-00 wide iny other member are assumed to chanical connection e capable of with ft at joint 6, 59 lb of	ngineer re: d shown c. use of this ottom chor oc. d for a 10.0 t with any ed for a liv as where will fit betw s. be SP No. on (by oth standing 4 uplift at joi	sponsible for overs rain loa truss compoid d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle veen the bott 2. ers) of truss i 6 lb uplift at j nt 10, 59 lb u	ading nent. dds. Opsf om to joint uplift					
FORCES	(lb) - Max Tension	imum Com	pression/Maximum		11) This truss d structural w	esign requires that ood sheathing be	at a minim	um of 7/16" rectly to the	top					
TOP CHORD	1-2=0/15, 4-5=-130/	2-3=-102/9 105, 5-6=-	90, 3-4=-134/100, 107/62, 6-7=0/15		chord and 1	/2" gypsum sheet	trock be a	oplied directly	y to					11111
BOT CHORD	2-10=-24/ 6-8=-24/8	82, 9-10=- 2	24/82, 8-9=-24/82,		12) See Standa Detail for Co	rd Industry Piggyl	back Trus	s Connection				. III	JULIUS	LEE
WEBS	4-9=-169/	13, 3-10=-	257/244, 5-8=-256/2	44	consult qua	lified building desi	ianer.					5		0.E
NOTES					LOAD CASE(S	Standard	5					2	· No. 04	000 1 2
1) Unbalanc	ed roof live l	oads have	been considered for	r		olandara							NO 34	869
this desig	n.											*:		∧:★ Ξ
Wind: AS	CE 7-22; Vu	lt=130mph	(3-second gust)									:	l'/ 🐆	
Vasd=101	Imph; TCDL	=6.0psf; B0	CDL=6.0psf; h=15ft;									ט:	4/1/	
B=45ft; L=	=24ft; eave=	4ft; Cat. II;	Exp B; Enclosed;									D	NETTE	0 1.40 -
MWFRS (directional)	and C-C Z	one3 0-2-12 to 3-2-1	2,								:0		NO LETE
Zone1 3-2	2-12 to 5-10-	7, Zone2 5	-10-7 to 9-10-7, Zon	ne1								1	A HOR	101.55
9-10-7 to	11-6-3 ZONE	; cantilever	den and right expose	eu;								-11	Sol .	NO IN
	AWERS for r	yni expose	bown: Lumber	anu									ONA	LEIM
DOL=1.60) plate grip E	OL=1.60											"IIIIII	mm

 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.

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	PB05	Piggyback	24	1	Job Reference (optional)	T36050311

7-9-13

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8,73 S Dec 5 2024 Print: 8,730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:01 ID:jKfOwpVvWIqvduc05KXE6vzy51q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

15-7-11

16-3-4 0-7-9 7-9-13 7-9-13 4x4 = 4 12 10 1.5x4 u 1.5x4 ı 3 5 18 19



	L	15-7	7-11	
Scale = 1:47.2	1			1
Plate Offsets (X, Y): [2:0-2-1,0-1-8], [6:0-2-1,0-1-8]				

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		ТС	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25		BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS							Weight: 74 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 2=15-7-1 9=15-7-1 Max Horiz 2=-136 (L Max Uplift 8=-76 (LC Max Grav 2=213 (LC 8=469 (I 0	athing directly applied applied. 1, 6=15-7-11, 8=15-7- 1, 10=15-7-11 C 10) 2 12), 10=-76 (LC 12) C 18), 6=193 (LC 17), C 18) 9=324 (LC 17),	4) 5) 6) 1. 7) 11, 8) 9) 10	Building Desverifying apprequirement Gable requir Gable studs This truss ha chord live lo * This truss lo on the bottoo 3-06-00 tall chord and an All bearings) Provide med	signer / Project blied roof live lo s specific to the res continuous spaced at 4-0 as been design ad nonconcurr has been desig m chord in all a by 2-00-00 wid hy other memb are assumed t	engineer respects of this bottom chore use of this bottom chore of oc. The sector of t	sponsible for overs rain loa truss compoid d bearing. 0 psf bottom other live loa e load of 20.1 a rectangle veen the bott DL = 10.0psi 2. ers) of truss i	ading nent. ds. Dpsf f.					
FORCES	10=470 (L	_C 17)		10 and 76 lb	uplift at joint 8	linstanuing 7 3.		ont					
ICROLO	Tension	prossion/maximum	11) I his truss de	esign requires	tnat a minimi	um or 7/16"	ton					
TOP CHORD	1-2=0/15, 2-3=-152/ 4-5=-148/134, 5-6=-	93, 3-4=-159/132, 122/53, 6-7=0/15		chord and 1/	2" gypsum she	eetrock be ap	oplied directly	y to					
BOT CHORD	2-10=-36/91, 9-10=- 6-8=-36/91	36/91, 8-9=-36/91,	12) See Standar Detail for Co	d Industry Pige	gyback Truss ise truss as a	s Connection					JULIUS	LEE
WEBS	4-9=-137/0.3-10=-2	86/182.5-8=-286/182		concult qual	ified building d	ocianor						OEA	1

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 8-5-7, Zone2 8-5-7 to 12-5-7, Zone1 12-5-7 to 16-8-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 14,2025



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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	PB06	Piggyback	1	1	Job Reference (optional)	T36050312

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:02 ID:zdU3QH1WPI1jdNOsWxkDHWzx8Zh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



10<u>-5-12</u>

Scale = 1:31.9

Plate Offsets (X, Y): [2:0-2-1,0-1-8], [3:0-2-0,0-1-13], [5:0-2-0,0-1-13], [6:0-2-1,0-1-8]

Loading FCLL (roof) FCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	23/TPI2014	CSI TC BC WB Matrix-AS	0.15 0.12 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 13	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 43 lb	GRIP 244/190 FT = 20%	
TOP CHORE SOT CHORE DTHERS BRACING TOP CHORE SOT CHORE REACTIONS	 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 2=10-5-12 9=10-5-12 Max Horiz 2=-55 (LC Max Uplift 2=-22 (LC Bar-17 (LC Max Grav 2=169 (LC (LC 24), 9 	athing directly applie applied. 2, 6=10-5-12, 8=10-5 2 3 (10) 3 (12), 6=-24 (LC 12), 3 (1), 6=-54 (LC 1), 8 9=323 (LC 23)	4) 5) 6(7) d. 7) 8) -12, 9) =304 10	verifying app requirements Provide adec Gable requir Gable studs This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar 0) All bearings) Provide mec bearing plate	isilier orof live load si is specific to the use quate drainage to p es continuous botto spaced at 4-0-0 oc. is been designed fo ad nonconcurrent w nas been designed n chord in all areas by 2-00-00 wide will y other members. are assumed to be hanical connection	portain lead povers rain loa truss compor water ponding d bearing.) psf bottom other live loa e load of 20.0 a rectangle veen the botto 2. ers) of truss t	ding nent. j. ds. opsf om							
FORCES FOP CHORE BOT CHORE WEBS NOTES I) Unbalan- this desi- this desi- Vasd=10 B=45ft; L MWFRS Zone1 3- 7-9-6 to 3- 7-9-6 to 3- 7-9-6 to 3- 7-9-6 to 3- 7-9-6 to 3- 7-9-6 to 3- 1000 CHORE NOTES	(lb) - Maximum Com Tension 0 1-2=0/15, 2-3=-90/7: 4-5=-62/96, 5-6=-99, 0 2-9=-18/70, 8-9=-18, 5-8=-217/62, 4-9=-2 ced roof live loads have gn. SCE 7-22; Vult=130mph 11mph; TCDL=6.0psf; B4 =24ft; eave=4ft; Cat. II; (directional) and C-CZ 2-12 to 3-6-7, Zone2 3- 8-2-7, Zone3 8-2-7 to 11	pression/Maximum 5, 3-4=-62/97, /69, 6-7=-0/15 /70, 6-8=-18/70 29/64 been considered for (3-second gust) CDL=6.0psf; h=15ft; Exp B; Enclosed; one3 0-2-12 to 3-2-12 6-7 to 7-9-6, Zone1 I-6-3 zone; cantileve	12 13 L (2, r	2, 24 lb uplift joint 9, 22 lb 2) This truss de structural wo chord and 1/ the bottom c 3) See Standar Detail for Co consult quali DAD CASE(S)	at joint 6, 17 Ib upl uplift at joint 2 and sign requires that a od sheathing be ap 2" gypsum sheetroo hord. d Industry Piggybao nnection to base tru fied building design Standard	ift at joi 24 lb u a minim oplied d ck be a ck Trus uss as a ler.	nt 8, 7 lb uplif oblift at joint 6. um of 7/16" rectly to the t oplied directly s Connection applicable, or	op r to			THE PRO	No 34	LEE SE9 Rel H	

- Zone1 3-2-12 to 3-6-7, Zone2 3-6-7 to 7-9-6, Zone1 7-9-6 to 8-2-7, Zone3 8-2-7 to 11-6-3 zone; cantilevel 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.



January 14,2025

ON

40000

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Julius Lee PE No. 34869

Date:

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.sbcscomponents.com)



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.