

RE: M00210-A - Arlington Rev.1-El.4-Floor Site Information: Project Customer: DRB Raleigh Project Nar Lot/Block: S Model: Arlington Rev.1 Address: City: S General Truss Engineering Criteria & Desig Drawings Show Special Loading Conditions Design Code: IRC2021/TPI2014 Wind Code: ASCE 7-16 Wind Speed: 120 mph Roof Load: 40.0 psf Mean Roof Height (feet): 25	me: DRB Raleigh Model Track ubdivision: DRB Raleigh tate: NC I n Loads (Individual Truss Design s): Design Program: MiTek 20/2 Design Method: MWFRS (Di Floor Load: N/A psf Exposure Category: B	Trenco 818 Soundside Rd Edenton, NC 27932 0 25.2 irectional)/C-C hybrid Wind ASCE 7-16
No.Seal#Truss NameDateNo.11739115541FGE1 $6/3/25$ 3521739115551F1 $6/3/25$ 3631739115561F2 $6/3/25$ 3741739115571F3A $6/3/25$ 3961739115591FGE2 $6/3/25$ 3961739115501FGE2 $6/3/25$ 4071739115601FGE2 $6/3/25$ 4181739115611FGE4 $6/3/25$ 43101739115621FGE5 $6/3/25$ 43101739115631F4 $6/3/25$ 45121739115651F6 $6/3/25$ 45121739115661F7 $6/3/25$ 46131739115661F7 $6/3/25$ 481739115671F7A $6/3/25$ 49161739115691FGE6 $6/3/25$ 50171739115701F8 $6/3/25$ 53201739115712FGE1 $6/3/25$ 53211739115772F3 $6/3/25$ 54211739115772F3 $6/3/25$ 55221739115782F6A $6/3/25$ 55231739115782F6A $6/3/25$ 59261739115812F8A $6/3/25$ 59261739115822FGE3 $6/3/25$ 59261739115842F11 $6/3/25$ 53291739115842F12 $6/3/25$ 59 <t< td=""><td>$\begin{array}{l c c c c c c c c c c c c c c c c c c c$</td><td></td></t<>	$\begin{array}{l c c c c c c c c c c c c c c c c c c c$	
The truss drawing(s) referenced above have been p Truss Engineering Co. under my direct supervision provided by Structural, LLC. Truss Design Engineer's Name: Gilbert, Eric My license renewal date for the state of North Car IMPORTANT NOTE: The seal on these truss compone that the engineer named is licensed in the jurisdiction(s) iden designs comply with ANSI/TPI 1. These designs are based u shown (e.g., loads, supports, dimensions, shapes and design given to MiTek or TRENCO. Any project specific information TRENCO's customers file reference purpose only, and was no preparation of these designs. MiTek or TRENCO has not ind applicability of the design parameters or the designs for any p the building designer should verify applicability of design para incorporate these designs into the overall building design per	prepared by n based on the parameters rolina is December 31, 2025 ent designs is a certification tified and that the upon parameters n codes), which were n included is for MiTek's or ot taken into account in the lependently verified the particular building. Before use, ameters and properly ANSI/TPI 1, Chapter 2.	CAROL SSION VIEW SEAL GINEER GILBERT



June 3,2025

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1FGE1	Floor Supported Gable	1	1	Job Reference (optional)	173911554

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 ID:rTE6CcJLYdoDsvQ3a2FIRUzBeJm-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

818 Soundside Road

Edenton, NC 27932



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 **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1F1	Floor	3	1	Job Reference (optional)	173911555

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:17 Page: 1 ID:a1wReP83ieEdtPFfbyYKhkzBeMZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







1-0-0 17-2-0

Scale = 1:40														
Loading	(psf)	Spacing	1-4-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00		TC	0.61	Vert(LL)	-0.27	18	>762	480	MT20HS	187/143	
TCDL	10.0	Lumber DOL	1.00		BC	0.97	Vert(CT)	-0.38	17-18	>531	360	MT20	244/190	
BCLL	0.0	Rep Stress Incr	NO		WB	0.38	Horz(CT)	0.06	13	n/a	n/a			
BCDL	5.0	Code	IRC2021	/TPI2014	Matrix-S							Weight: 86 lb	FI = 20%F, 1	2%E
LUMBER			5)	Recommend	2x6 strongbacks	, on edge	, spaced at							
TOP CHORD	2x4 SP No.2(flat)			10-00-00 oc	and fastened to e	each truss	with 3-10d							
BOT CHORD	2x4 SP No.2(flat)			(0.131" X 3")	nails. Strongbad	cks to be a	attached to w	/alls						
WEBS	2x4 SP No.3(flat)		0	at their outer	ends or restraine	ed by othe	er means.							
OTHERS	2x4 SP No.3(flat)		6)	CAUTION, L	o not erect truss	backward	IS.							
BRACING			LO	AD CASE(S)	Standard									
TOP CHORD	Structural wood she	athing directly applie	dor 1)	Dead + Flo Plate Increa	or Live (balanced ase=1 00): Lumber	Increase=1.	00,						
	Rigid ceiling directly	applied or 10-0-0 oc		Uniform Lo	ads (lb/ft)									
	bracing.	applied of 10-0-0 00	,	Vert: 13-	22=-7, 1-12=-67									
REACTIONS	(size) 13=0-2-2	22=0-3-8		Concentrate	ed Loads (lb)									
	Max Grav 13=1482	(LC 1), 22=635 (LC 1	1)	Vert: 24=	-880									
FORCES	(lb) - Maximum Com	pression/Maximum												
	Tension													
TOP CHORD	1-22=-24/0, 12-13=-	669/0, 1-2=-2/0,												
	2-3=-1593/0, 3-4=-2	650/0, 4-5=-2650/0,												
	5-0=-3135/0, 0-7=-3 9 10- 2771/0 10 11	135/0, 7-8=-3135/0, - 1072/0 11 12-0/0	h											
	21_22_0/946_20_21-	-0/2215 18-20-0/29	, 160											
BOT ONORD	17-18=0/3135 16-17	7=0/3069 15-16=0/2	458											
	14-15=0/1360, 13-14	4=0/1360	,											
WEBS	6-18=-192/0, 7-17=-	302/108, 2-22=-1120)/0,											
	2-21=0/790, 3-21=-7	759/0, 3-20=0/523,												
	4-20=-64/0, 5-20=-3	72/0, 5-18=-30/462,										MILLIN	11111	
	11-13=-1579/0, 11-1	4=0/5, 11-15=0/707,	,									W'TH CA	Rollin	
	10-15=-597/0, 10-16	6=0/381, 8-16=-382/0),								1.	R	- Ling	
	8-1/=-1/9/42/										5.	FESS	ON: V	2
NOTES										2	Z		2	-
 Unbalance this design 	ed floor live loads have	e been considered for	r							-		Q.		E
 All plates a 	 are MT20 plates unles	s otherwise indicated	ł.							=		SEA	L È	1
 Provide m 	echanical connection ((by others) of truss to)							=		0202	22	-
bearing pla	ate at ioint(s) 13.									1		0303	~~ :	-

4) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

G 100000 June 3,2025

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Structural, LLC, Thurmont, MD - 2	1F2	Floor	2	1		173911556			
Structural, LLC, Thurmont, MD - 2	21788.	FIOOT			Job Reference (optional)				
		Run: 25.20 S May 13 ID:G.IRoPRYum.INE	2025 Print: 2	5.2.0 S May	13 2025 MiTek Industries, Inc. Mon Jun 02 18:25 70Ha3NSaPaal 8w3uITXbGKWrCDoi7.14z.IC?f	:18 Page: 1			
0.1	4.0		, 0_, .2000						
0-1 	1-8 		+	2-0-0	1				
	1-3-0	-2-8	1-0-8		1-10-6				
	3x4 =	1.5x3 II 3x6 FP	1.5x	3 II	3x4 =				
1.	.5x3 u 3x4=	= 3x3 II 4x6 = 3x6 =	4x6 =		3x4 = 1.5x3 II 4x6 =	3x3 ш			
°-⊤ ⊂ 2	1 2 3 27 1 2 3		9 10		11 12 28 13 14	15			
Ĕ	25	23 22 21 24 1.0	20		19 18 17	⊠ 3×6 =			
1.4	.5x3 =	4x6 = 4x6 = 4x6 = 4x8	4x4 :	= ^	$.5x3 \parallel 4x8 = 4x6 =$	570 -			
\$	3x6 =	3x6 FP							
			4	15-0-	0				
L	5-4-0	13-0-0		+-0-0	22-4-6				
I	5-4-0	7-8-0	1	ا -0-0	7-4-6	Ι			
				1-0-0					
Scale = 1:44.3		22-4-	6			———————————————————————————————————————			
Plate Offsets (X, Y): [11:0-1-7	-8,Edge], [20:0-1-8,Edge]								
Loading ((psf) Spacing	1-4-0 CSI	DEFL		in (loc) l/defl L/d PLATES	GRIP			
TCDL	40.0Plate Grip DOL10.0Lumber DOL	1.00 IC 1. 1.00 BC 0.	91 Vert(L 91 Vert(C	L) -0. CT) -0.4	16 18-19 >999 480 M120 45 18-19 >448 360	244/190			
BCLL BCDL	0.0 Rep Stress Incr 5.0 Code	NO WB 0. IRC2021/TPI2014 Matrix-S	68 Horz(CT) 0.	04 16 n/a n/a Weight: 110 lb	FT = 20%F, 12%E			
BCDL LUMBER TOP CHORD 2x4 SP SS(fiz BOT CHORD 2x4 SP SS(fiz WEBS 2x4 SP No.3(OTHERS 2x4 SP No.3(BRACING TOP CHORD TOP CHORD Structural wo except end vis BOT CHORD Rigid ceiling of bracing. REACTIONS (size) 16: Max Uplift Max Uplift 26: Max Grav 16: 26: FORCES (lb) - Maximu Tension 23=0/1176, 3: 5-6=0/114, 6: 9-10=-3450/0 TOP CHORD 1-26=-21/0, 1 2-3=0/1176, 3: 5-6=0/114, 6: 9-10=-3450/0 BOT CHORD 1-26=-21/0, 1 2-3=0/21724, 12-3=-4217/ BOT CHORD 25-26=-592/0 22-24=-1126/ 19-20=03450/ 10=-20=03450/0 12-22=0-03456 16-17=-0/1466 WEBS 4-24=-80/0, 1 2-26=0/702, 1 3-25=0/755, 3 S-25=0/755, 5, 5 5-22=0/1284, 8-21=-119/0, 14-17=-0/1422; 12-18=-536/0 12-18=-536/0 NOTES 1) Unbalanced floor live load this design. 10	5.0 Code (at) (flat) (flat) (flat) (flat) bod sheathing directly applied verticals. directly applied or 6-0-0 oc 3=0-4-8, 24=0-4-8, 26=0-3-8 3=-369 (LC 4) 3=984 (LC 4), 24=1542 (LC 1) 3=-8 (LC 3) um Compression/Maximum 15-16=-38/0, 1-2=-2/0, 3-4=0/2495, 4-5=0/2496, 5=-8-1810/0, 8-9=-1810/0, 0, 10-11=-3450/0, 11-12=-42: 7/0, 13-14=-2631/0, 14-15=0/0, 0, 24-25=-1785/0, 5/0, 21-22=0/961, 20-21=0/25, 10-20=-522/0, 11-19=-228/0, 14-16=-1737/0, 2-25=-728/0, 3-24=-1032/0, 5-24=-1623/0, 6-22=-1227/0, 6-21=0/1024 9-21=-929/0, 9-20=0/1225, 13, 13-17=-1419/0, 13-18=0/5 0, 11-18=0/1033 ds have been considered for	 One H2.5A Simpson Strong-Tie conrecommended to connect truss to b UPLIFT at jt(s) 26. This connection does not consider lateral forces. Load case(s) 1 has/have been mod designer must review loads to verify for the intended use of this truss. Recommend 2x6 strongbacks, on e 10-00-00 oc and fastened to each t (0.131" X 3") nails. Strongbacks to at their outer ends or restrained by 5) CAUTION, Do not erect truss backs Dead + Floor Live (balanced): Lum Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 16-26=-7, 1-15=-67 Concentrated Loads (lb) Vert: 28=-667 17/0, 0 80, 794, 	nnectors earing wall is for uplift iffied. Buildi / that they a edge, space russ with 3- be attache other mean wards.	s due to only and ng are correct d at 10d d to walls is. se=1.00,	SEA 0363	FT = 20%F, 12%E			



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 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor		
	1F3A	Floor	2	1	Job Reference (optional)	73911557	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:18 Page: 1 ID:Xy52BiaeDhnWCx?aiWBm9KzBeM?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







1-0-0 16-0-0

Scale = 1:38.4

Scale = 1.50.4												
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 NO IRC2021/TPI2014	CSI TC BC WB Matrix-S	0.80 0.71 0.39	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.36 0.04	(loc) 15-16 15-16 11	l/defl >928 >527 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 78 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER Uniform Loads (lb/ft) TOP CHORD 2x4 SP No.2(flat) Vert: 11-18=-7, 1-4=-67, 4-21=-103, 10-21=-67 30T CHORD 2x4 SP SS(flat) Vert: 11-18=-7, 1-4=-67, 4-21=-103, 10-21=-67 WEBS 2x4 SP No.3(flat) Vert: 11-18=-7, 1-4=-67, 4-21=-103, 10-21=-67 OTHERS 2x4 SP No.3(flat) Vert: 11-18=-7, 1-4=-67, 4-21=-103, 10-21=-67 OTHERS 2x4 SP No.3(flat) Vert: 11-18=-7, 1-4=-67, 4-21=-103, 10-21=-67 STACING Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Soft CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. Reactions Size) 11=0-3-8, 18=0-3-8												
REACTIONS	(size) 11=0-3-8, Max Grav 11=639 (I	, 18=0-3-8 LC 1), 18=652 (LC 1)									
FORCES	(lb) - Maximum Corr	npression/Maximum										
TOP CHORD BOT CHORD	1-18=-24/0, 10-11=- 2-3=-1641/0, 3-4=-2 5-6=-3033/0, 6-7=-3 8-9=-1607/0, 9-10=- 17-18=0/971, 16-17	23/0, 1-2=-2/0, 2766/0, 4-5=-2766/0, 3033/0, 7-8=-2673/0, 2/0 =0/2299, 15-16=0/30 4, 0/2023, 12, 12, 0/2	052,									
WEBS	11-12=0/960 6-15=-135/0, 7-14=(2-17=0/818, 3-17=-{ 4-16=-67/0, 5-16=-3 9-11=-1137/0, 9-12= 8-13=0/610, 7-13=-7	4=0/3033, 12-13=02 0/325, 2-18=-1149/0, 303/0, 3-16=0/561, 151/0, 5-15=-198/243 =0/789, 8-12=-745/0, 711/0	, , ,								TH CA	Route
NOTES										1	O FESS	ON'IN
1) Unbalance	ed floor live loads have	e been considered fo	or							2		12/
 this design Load case designer n for the inte Recomme 10-00-00 c (0.131" X 3 at their ou LOAD CASE(1) Dead + F Plate Incc 	n. e(s) 1 has/have been m must review loads to ve ended use of this truss and 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks iter ends or restrained S) Standard Floor Live (balanced): I rease=1.00	nodified. Building erify that they are co on edge, spaced at ch truss with 3-10d s to be attached to w by other means. Lumber Increase=1.0	rrect alls 00,						State Contraction		SEA 0363	EER. KINN

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 collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria and DSE2** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbaccomponents.com)



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1F3	Floor	4	1	Job Reference (optional)	1558



10-0-0

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:18

Page: 1



1-0-0

16-0-0

Scale = 1:38.4													
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 NO IRC2021	/TPI2014	CSI TC BC WB Matrix-S	0.54 0.92 0.33	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.21 -0.29 0.04	(loc) 16-18 16-18 12	l/defl >891 >644 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 78 lb	GRIP 187/143 244/190 FT = 20%F, 12%E
							· · ·					· · · · g • •	
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) *E (flat)	xcept* 17-12:2x4 SP	1) SS	Dead + Floo Plate Increa Uniform Loa Vert: 12-2	or Live (balanced) ase=1.00 ads (lb/ft) 20=-7, 1-4=-67, 4-	: Lumbe 23=-67,	r Increase=1. 11-23=-67	00,					
WEBS OTHERS	2x4 SP No.3(flat) 2x4 SP No.3(flat)												
BRACING TOP CHORD	Structural wood she	eathing directly applie	d or										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc											
REACTIONS	(size) 12=0-3-8, Max Grav 12=573 (I	, 20=0-3-8 LC 1), 20=573 (LC 1)											
FORCES	(lb) - Maximum Com	npression/Maximum											
TOP CHORD	DRCES (lb) - Maximum Compression/Maximum Tension DP CHORD 1-20=-24/0, 11-12=-24/0, 1-2=-2/0, 2-3=-1410/0, 3-4=-2297/0, 4-6=-2297/0, 6-7=-2525/0, 7-8=-2525/0, 8-9=-2277/0, 6-7=-2525/0, 7-8=-2525/0, 8-9=-2277/0, 6-7=-2525/0, 7-8=-2525/0, 8-9=-2277/0, 6-7=-2525/0, 7-8=-2525/0, 8-9=-2277/0, 8-7=-2525/0, 8-9=-2277/0, 8-7=-2525/0, 8-9=-2277/0, 8-7=-2525/0, 8-9=-2277/0, 8-7=-2525/0, 8-9=-2277/0, 8-7=-2525/0, 8-9=-2277/0, 8-7=-2525/0, 8-9=-2277/0, 8-7=-2525/0, 8-7=-2525/0, 8-7=-2525/0, 8-7=-2525/0, 8-7=-2525/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-2525/0, 8-7=-2277/0, 8-7=-255/0, 8-7=-2277/0, 8-7=-255/0, 8-7=-2277/0, 8-7=-255/0, 8-7=-2277/0, 8-7=-255/0, 8-7=-2277/0, 8-7=-255/0, 8-7=-255/0, 8-7=-2277/0, 8-7=-255/0, 8-7=-250/												
BOT CHORD	19-20=0/850, 18-19 15-16=0/2525, 14-1	=0/1950, 16-18=0/25 5=0/2525, 13-14=0/1	05, 936,										
WEBS	7-16=-119/0, 8-15=- 2-19=0/683, 3-19=-6 4-18=-54/0, 6-18=-2 10-12=-1011/0, 10-1 9-14=0/470, 8-14=-5	-46/236, 2-20=-1005// 660/0, 3-18=0/417, 258/0, 6-16=-151/289 13=0/679, 9-13=-640/ 531/0	0, , /0,								- In	TH CA	ROUT
NOTES										4	X	. Of Loo	X
1) Unbalance this design	NOTES Unbalanced floor live loads have been considered for this design.											Q SEA	
 All plates a Load case designer n for the interior 	are M I 20 plates unles e(s) 1 has/have been m nust review loads to ve ended use of this truss	s otherwise indicated nodified. Building erify that they are cor s.	ı. rect							TUTA		0363	22
4) Recomme 10-00-00 (0.131" X 3 at their out	end 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks ter ends or restrained	on edge, spaced at ch truss with 3-10d s to be attached to wa	alls							S		A C NGIN	EERER
LOAD CASE(s) Standard	by other means.										A. G	ILL INT

June 3,2025

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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty Ply		Qty Ply		Arlington Rev.1-EI.4-Floor	170011550	
	1FGE2	Floor Supported Gable	1	1	Job Reference (optional)	173911559			

Structural LLC Thurmont MD - 21788

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 ID:cpIQbn0MfmDrR_RPXxp8KxzBeIr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

818 Soundside Road

Edenton, NC 27932



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

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor		
	1FGE3	Floor Supported Gable	2	1	Job Reference (optional)	173911560	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20

Page: 1

Structural, LLC, Thurmont, MD - 21788.



Scale = 1:27.5													
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	тс	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	6	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 22 lb	FT = 20%F, 12%E	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)												

Structural 5-0-0 oc r	l wood sheathing directly applied or ourlins. except end verticals.
Rigid ceil bracing.	ing directly applied or 10-0-0 oc
(size)	6=5-0-0, 7=5-0-0, 8=5-0-0, 9=5-0-0 10=5-0-0
Max Grav	6=29 (LC 1), 7=81 (LC 1), 8=102 (LC 1), 9=96 (LC 1), 10=36 (LC 1)
(lb) - Max Tension	imum Compression/Maximum
1-10=-33/ 3-4=-6/0,	′0, 5-6=-25/0, 1-2=-6/0, 2-3=-6/0, 4-5=-6/0
9-10=0/6, 2-9=-87/0	8-9=0/6, 7-8=0/6, 6-7=0/6 , 3-8=-92/0, 4-7=-76/0
	Structural 5-0-0 oc p Rigid ceill bracing. (size) Max Grav (lb) - Max Tension 1-10=-33/ 3-4=-6/0, 9-10=0/6, 2-9=-87/0

NOTES

1) Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely 2) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc. 3)
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor		
	1FGE4	Floor Supported Gable	1	1	Job Reference (optional)	173911561	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 ID:Jahn8iVJK2LjJcpB9UYbEMzBeKp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1.5x3 =



Scale = 1:24.4

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 IRC2021/TPI2014	CSI TC BC WB Matrix-R	0.05 0.01 0.02	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood s 6-0-0 oc purlins, Rigid ceiling direc bracing. (size) 7=6-1-1 10=6-1 Max Grav 7=20 ((LC 1),	neathing directly applia except end verticals. tly applied or 10-0-0 or 8, 8=6-1-8, 9=6-1-8, 8, 11=6-1-8, 12=6-1-8 C 1), 8=74 (LC 1), 9= 10=97 (LC 1), 11=98 (ed or 5 102 LC 1),									
FORCES	12=35 (Ib) - Maximum C Tension	LC 1) pmpression/Maximum										
BOT CHORD	1-12=-33/0, 6-7=- 3-4=-5/0, 4-5=-5/0 11-12=0/5, 10-11: 7 8-0/5	15/0, 1-2=-5/0, 2-3=-5/ , 5-6=-5/0 =0/5, 9-10=0/5, 8-9=0/	0, 5,									
WEBS	2-11=-88/0, 3-10=	-88/0, 4-9=-92/0, 5-8=	-71/0									
NOTES												
 All plates a indicated 	are 1.5x3 () MT20	unless otherwise									W'LL CA	Palli
2) Gable req	uires continuous bo	tom chord bearing.								- 51	ATHON	TOLIN
3) Truss to b	e fully sheathed from	n one face or securely							L	12	2 The second	Reg
4) Gable stu	ainst lateral movem ds spaced at 1-4-0 d	ent (I.e. diagonal web). c.									100	
5) Recomme 10-00-00 ((0.131" X at their ou	end 2x6 strongbacks oc and fastened to e 3") nails. Strongbac ter ends or restraine	, on edge, spaced at ach truss with 3-10d ks to be attached to w d by other means.	alls								SEA 0363	L 22
6) CAUTION	, Do not erect truss	backwards.							-		N.	1 1
LOAD CASE(S) Standard										RIC A GIN	EERERIUM

A. GILD June 3,2025

GILB

Page: 1

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



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1FGE5	Floor Supported Gable	1	1	Job Reference (optional)	173911562

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 Page: 1 ID:Y1CmTzPICbLsMOCehoPivgzBeKx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:24.4

Load TCLL	ling	(psf) 40.0	Spacing Plate Grip DOL	1-7-3 1.00	CSI TC	0.06	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCD	L	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999	-	
BCLI	_	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCD	L	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 32 lb	FT = 20%F, 12%E
			•					-					
	BEK	2v4 CD No 2/flot)											
BOT	CHORD	2x4 SP No.2(IIat) 2x4 SP No.2(flat)											
WEB	S	2x4 SP No 3(flat)											
OTH	FRS	2x4 SP No 3(flat)											
BRA	CING	,											
TOP	CHORD	Structural wood she	athing directly applie	ed or									
	00	6-0-0 oc purlins, ex	cept end verticals.										
BOT	CHORD	Rigid ceiling directly	applied or 10-0-0 oc	b									
		bracing.											
REA	CTIONS	(size) 8=7-5-12,	9=7-5-12, 10=7-5-1	2,									
		11=7-5-12	2, 12=7-5-12, 13=7-5	5-12,									
		14=7-5-12	2	400									
		Max Grav 8=25 (LC	1), 9=90 (LC 1), 10=	=122									
		(LC I), II 1) 13–11	= 1 10 (LC 1), 12=11 8 (LC 1) 14-42 (LC	8 (LC 1)									
EOD	CE6	(lb) Maximum Com		1)									
FUN	GEG	(ib) - Maximum Com Tension	ipression/maximum										
TOP	CHORD	1-14=-39/0. 7-8=-20	/0. 1-2=-6/0. 2-3=-6/	0.									
		3-4=-6/0, 4-5=-6/0, 5	5-6=-6/0, 6-7=-6/0	-,									
BOT	CHORD	13-14=0/6, 12-13=0/	6, 11-12=0/6, 10-11	=0/6,									
		9-10=0/6, 8-9=0/6											
WEB	S	2-13=-106/0, 3-12=-	107/0, 4-11=-106/0,										
		5-10=-111/0, 6-9=-8	5/0										1111
NOT	ES											IN TH CA	Roille
1) A	All plates	are 1.5x3 () M120 un	less otherwise								and is	A	in this
2) (naicatea.	wiros continuous hottor	m chord boaring								22	FESS	Philad
2) (Fruss to h	fully sheathed from c	ne face or securely							7		1 12	12/1
5, 1 F	praced an	ainst lateral movement	t (i.e. diagonal web)							3	(· × ·	1 1 E
4) 0	Gable stu	ids spaced at 1-4-0 oc.								=		SEA	L 1 E
5) F	Recomme	end 2x6 strongbacks, o	n edge, spaced at							=	:	0262	22 : =
1	0-00-00	oc and fastened to eac	h truss with 3-10d							1		0303	~ : :
(0 131" Y	3") naile Strongbacks	to be attached to w	alle						-	- 6		

(0.131" X 3") nails. Strongbacks to be attached to wa at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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 **ANSUTP11 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.sbcaccomponents.com)



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1F4	Floor	1	1	Job Reference (optional)	173911563

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:19 Page: 1 ID:q6b_NYH1ZW4H9rRj5iEMVZzBeL5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1.5x3 = 3x6 =



Scale = 1:25.3												
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.01	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 40 lb	FT = 20%F, 12%E
	(4 SD No 2(flot)											

TOP CHORD	2x4 SP NO.2(IIal)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
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) 7=0-2-2, 10=0-3-8
	Max Grav 7=318 (LC 1), 10=313 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-10=-27/0, 6-7=-14/0, 1-2=-2/0, 2-3=-577/0,
	3-4=-538/0, 4-5=-538/0, 5-6=0/0
BOT CHORD	3-4=-538/0, 4-5=-538/0, 5-6=0/0 9-10=0/437, 8-9=0/685, 7-8=0/247
BOT CHORD WEBS	3-4=-538/0, 4-5=-538/0, 5-6=0/0 9-10=0/437, 8-9=0/685, 7-8=0/247 2-10=-515/0, 2-9=0/171, 3-9=-132/0,
BOT CHORD WEBS	3-4=-538/0, 4-5=-538/0, 5-6=0/0 9-10=0/437, 8-9=0/685, 7-8=0/247 2-10=-515/0, 2-9=0/171, 3-9=-132/0, 3-8=-176/0, 4-8=-78/0, 5-8=0/350, 5-7=-386/0

NOTES

- 1) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- Recommend 2x6 strongbacks, on edge, spaced at 2) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1F5	Floor	13	1	Job Reference (optional)	173911564

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:19 Page: 1 ID:BXL0HdwrOcQOAOj9v6CZqSzBeLY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









13-5-12

Scale =	1:38.4
---------	--------

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 NO IRC2021/TPI2014	CSI TC BC WB Matrix-S	0.61 0.51 0.33	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.12 -0.18 0.03	(loc) 12 12 9	l/defl >999 >861 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 65 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	2x4 SP No.2(flat) 2x4 SP SS(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 9=0-2-2, 1 Max Grav 9=623 (LC (lb) - Maximum Com Tension 1-15=-28/0, 8-9=-34/ 3-4=-2421/0, 4-5=-24 6-7=-1485/0, 7-8=0/ 14-15=0/913, 13-14= 11-12=0/2421, 10-11 4-13=-240/0, 5-12=-7 2-14=0/689, 3-14=-6	athing directly applie cept end verticals. applied or 10-0-0 oc 15=0-3-8 2 1), 15=619 (LC 1) pression/Maximum /0, 1-2=-2/0, 2-3=-14 421/0, 5-6=-2303/0, 0 =0/2029, 12-13=0/24 166/75, 2-15=-1080/ 74/0, 3-13=0/630,	Uniform Lo Vert: 9-1 Concentrat Vert: 17= ed or c 4777/0, 421, 10 /0,	ads (lb/ft) 5=-8, 1-8=-80 ed Loads (lb) 82								
NOTES	6-11=0/421, 5-11=-3	69/21									mun	um.
 Unbalance this design Provide m bearing pla Load case designer n for the inte Recommen 10-00-00 C (0.131" X at their out CAUTION, LOAD CASE(5) Dead + F Plate Inco 	ed floor live loads have a chanical connection (ate at joint(s) 9. (s) 1 has/have been m nust review loads to ve inded use of this truss. nd 2x6 strongbacks, or a cand fastened to eacl 3") nails. Strongbacks ter ends or restrained b , Do not erect truss bac S) Standard loor Live (balanced): L rease=1.00	been considered fo by others) of truss to nodified. Building rify that they are con- n edge, spaced at h truss with 3-10d to be attached to wa by other means. ckwards.	r o rrect alls 00,						Within		SEA 0363	EER HILL LBHILL HE 3,2025

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1F6	Floor	2	1	Job Reference (optional)	173911565

Run: 25.10 E Apr 28 2025 Print: 25.1.0 E Apr 28 2025 MiTek Industries, Inc. Tue Jun 03 16:59:33 ID:IzyWLZOkZd3dg?BDSU5C1xzAShI-OgYGGQtutCIW2AdS4gk7uGal47MFx0g5B6IGEdzA5Tw

Page: 1





1.5x3 =

3x6 =

Scale - 1.26

Ocale - 1.20											-		
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.01	4-5	>999	360			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%F, 12%E	
LUMBER												·	
TOP CHORD	2x4 SP No.2(flat)												
BOT CHORD	2x4 SP No.2(flat)												
WEBS	2x4 SP No.3(flat)												
OTHERS	2x4 SP No.3(flat)												

OTHERS

BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	3-0-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(lb/size) 4=121/0-4-8, 5=117/0-3-8
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
	(lb) or less except when shown.

NOTES

1) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

2) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1F7	Floor	5	1	Job Reference (optional)	173911566
						_

Loading

TCLL

TCDI

BCLL

BCDL

WEBS

OTHERS

BRACING

FORCES

WEBS

NOTES

1)

2)

LUMBER



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

818 Soundside Road

Edenton, NC 27932

mm June 3,2025

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1F7A	Floor	1	1	Job Reference (optional)	173911567
Structural, LLC, Thurmont, MD - :	21788,	Run: 25.20 S May 13 ID:PSp8TGQUHi8M8:	2025 Print: 2 xV4RHSj7bz	25.2.0 S May BeMC-RfC?F	13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:19 sB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1
	0-1-8			2-0-	0	



NOTES

WEBS

Scale = 1:44.3

Loading

TCLL

TCDL

BCLL

BCDL

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD

BOT CHORD

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

12-13=-1256/0, 13-14=-2/0

15-16=0/770

9-19=0/457

24-25=-514/0, 23-24=-1565/0,

9-10=-2096/0, 10-11=-2096/0, 11-12=-1964/0,

21-23=-1046/0, 20-21=0/684, 19-20=0/1837, 18-19=0/2096, 17-18=0/2096, 16-17=0/1715,

4-23=-72/0, 10-19=-231/0, 11-18=-71/113,

2-25=0/610, 5-23=-1379/0, 13-15=-911/0, 13-16=0/593, 12-16=-560/0, 12-17=0/377, 11-17=-354/0, 2-24=-642/0, 3-24=0/669, 3-23=-950/0, 5-21=0/1048, 6-21=-1024/0,

6-20=0/803, 8-20=-100/0, 9-20=-592/0,

2) All plates are MT20 plates 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 bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1FGE6	Floor Supported Gable	1	1	Job Reference (optional)	173911568

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 ID:HUf4yyBCpZS4auM2jp2tmOzBeHK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.5

Loading TCLL	(psf) 40.0	Spacing Plate Grip DOL	1-7-3 1.00	CSI TC	0.06	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 18 lb	FT = 20%F, 12%	E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 3-11-12 oc purlins, Rigid ceiling directly bracing.	athing directly appli except end verticals applied or 10-0-0 or	ed or c										

FORCES	(lb) - Max	imum Compression/Maximum
		$(C1) _{8=45} (C1) _{1}$
	Max Grav	5=49 (LC 1), 6=114 (LC 1), 7=115
		8=3-11-12
REACTIONS	(SIZE)	5=5-11-12, 0=5-11-12, 7=5-11-12,

NOTES	
WEBS	2-7=-105/0, 3-6=-104/0
BOT CHORD	7-8=0/10, 6-7=0/10, 5-6=0/10
	3-4=-10/0
TOP CHORD	1-8=-41/0, 4-5=-44/0, 1-2=-10/0, 2-3=-10/0,
	Tension

1) Gable requires continuous bottom chord bearing.

2) Truss to be fully sheathed from one face or securely

- braced against lateral movement (i.e. diagonal web). 3) Gable studs spaced at 1-4-0 oc.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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 **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1FGE7	Floor Supported Gable	1	1	Job Reference (optional)	173911569

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 Page: 1 ID:9xRX6jSieGHBbPFkreqdc7zBUOM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





4.00 0

Scale = 1:28.6														
Loading TCLL TCDL		(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL	1-7-3 1.00 1.00		CSI TC BC	0.06 0.01	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
BCLL		0.0	Rep Stress Incr	YES		WB	0.02	Horiz(TL)	0.00	10	n/a	n/a		
BCDL		5.0	Code	IRC2021	/TPI2014	Matrix-R							Weight: 43 lb	FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Structural 6-0-0 oc ț Rigid ceil bracing.	o.2(flat) o.2(flat) o.3(flat) o.3(flat) I wood she purlins, exi ing directly	athing directly applie cept end verticals. applied or 10-0-0 oc	5) 6) LO vd or	Recommend 10-00-00 oc (0.131" X 3") at their outer CAUTION, E AD CASE(S)	I 2x6 strongbacks and fastened to 4 nails. Strongba ends or restrain to not erect truss Standard	s, on edge each truss cks to be a ed by othe backward	e, spaced at s with 3-10d attached to w er means. Is.	alls					
REACTIONS	(size) Max Grav	10=10-7-1 12=10-7-1 14=10-7-1 16=10-7-1 18=10-7-1 10=49 (LC 12=118 (L 14=117 (L 16=118 (L 18=45 (L	12, 11=10-7-12, 12, 13=10-7-12, 12, 15=10-7-12, 12, 15=10-7-12, 12, 17=10-7-12, 12 12, 11=113 (LC 1), 1, 11=113 (LC 1), 1, 13=117 (LC 1), 1, 15=117 (LC 1), 1, 17=114 (LC 1),	I, I,										
FORCES	(lb) - Max	imum Com	pression/Maximum											
TOP CHORD	1-18=-41/ 3-4=-10/0 7-8=-10/0	/0, 9-10=-4), 4-5=-10/0), 8-9=-10/0	4/0, 1-2=-10/0, 2-3≕), 5-6=-10/0, 6-7=-10)	-10/0, 0/0,										Della
BOT CHORD	17-18=0/ 14-15=0/ 11-12=0/	10, 16-17=(10, 13-14=(10, 10-11=(0/10, 15-16=0/10, 0/10, 12-13=0/10, 0/10									July 1	ORTHOR	RINI
WEBS	2-17=-104 5-14=-107 8-11=-107	4/0, 3-16=- 7/0, 6-13=- 3/0	107/0, 4-15=-106/0, 106/0, 7-12=-108/0,								U		SFA	
NOTES											Ξ		0202	
 All plates indicated. 	are 1.5x3 () MT20 un	lless otherwise								111	3	0363	
2) Gable reg	uires contin	uous bottoi	m chord bearing									2	1	

Truss to be fully sheathed from one face or securely 3) braced against lateral movement (i.e. diagonal web). Gable studs spaced at 1-4-0 oc.

4)



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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

GILB Unuminity June 3,2025

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	1F8	Floor	1	1	Job Reference (optional)	173911570

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:19 ID:Tevz_A?b1M0Vfd5qHzS_3HzBTbI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





10-0-0



¹⁻⁰⁻⁰ 17-2-0

Scale = 1:39.3

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

Loa TCL TCL BCL BCL	ading _L DL LL DL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 NO IRC202	1/TPI2014	CSI TC BC WB Matrix-S	0.74 0.69 0.65	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.26 -0.44 0.07	(loc) 17 16-17 13	l/defl >786 >461 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 84 lb	GRIP 187/143 244/190 FT = 20%F, 7	12%E
LUI TOF BO ^T WE BR/ TOF BO ^T	MBER P CHORD T CHORD BS ACING P CHORD T CHORD ACTIONS	2x4 SP No.2(flat) *E: (flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) Structural wood shea 4-11-11 oc purlins, or Rigid ceiling directly bracing. (size) 13=0-2-2, Max Grav 13=999 (L	xcept* 8-1:2x4 SP St athing directly applie except end verticals. applied or 10-0-0 oc 21=0-6-4 .C 1), 21=828 (LC 1)	5) 5 1) d or	Recommend 10-00-00 oc (0.131" X 3") at their outer DAD CASE(S) Dead + Flou Plate Increa Uniform Loc Vert: 13- Concentrate Vert: 22=	2x6 strongbacks, and fastened to ea nails. Strongback ends or restrained Standard or Live (balanced): ase=1.00 ads (lb/ft) 21=-8, 1-12=-80 ed Loads (lb) -339	on edge ach truss s to be d by othe Lumber	 spaced at s with 3-10d attached to w er means. r Increase=1. 	valls 00,						
FO	RCES	(lb) - Maximum Com	pression/Maximum												
TOF	P CHORD	1-21=-33/0, 12-13=-3 2-3=-2098/0, 3-4=-3 5-6=-4383/0, 6-7=-4 9-10=-4198/0, 10-11	38/0, 1-2=0/0, 539/0, 4-5=-3539/0, 383/0, 7-9=-4198/0, =-2613/0, 11-12=0/0												
BO	T CHORD	20-21=0/1234, 19-20 16-17=0/4383, 15-16 13-14=0/1491	0=0/2926, 17-19=0/4 6=0/4383, 14-15=0/3	008, 707,											
NE	BS	6-17=-296/0, 7-16=- 2-20=0/1055, 3-20=- 4-19=-89/0, 5-19=-56 11-13=-1767/0, 11-1 10-14=-1336/0, 10-1 7-15=-446/245	114/55, 2-21=-1462/ 1011/0, 3-19=0/736, 64/0, 5-17=0/763, 4=0/1370, 5=0/589, 9-15=-263/	D, 0,							C		ORTH CA	ROM	12
NO.	TES	al flana l'an la ada la ann	h								-	1	· 4 -	-	Ξ
1)	this design	ed floor live loads have	been considered for								=	- 1	SEA	L i	1
2)	All plates a	are MT20 plates unless	s otherwise indicated								Ξ		0363	22 :	Ξ
Ń	Dravida m	achanical compation (hu others) of truce to										0505		-

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

bearing plate at joint(s) 13. 4) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss Type		Qty	Ply	Arlington Rev.1-EI.4-Floor	
	2FGE1	Floor Supported Gable	1	1	Job Reference (optional)	173911571

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:23 ID:lwrT0?bmLdMM?Vjr2F58oFzC0xr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



TOLL		40.0	Plate Grip DOL	1.00		10	0.08	vert(LL)	n/a	-	n/a	999	M120	244/190
TCDL		10.0	Lumber DOL	1.00		BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	16	n/a	n/a		
BCDL		5.0	Code	IRC202	1/TPI2014	Matrix-R							Weight: 71 lb	FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No 2x4 SP No 2x4 SP No 2x4 SP No Structural 6-0-0 oc p Rigid ceili bracing. (size)	5.0 0.2(flat) 0.3(fl	code athing directly applie cept end verticals. applied or 10-0-0 oc -0, 17=16-10-0, -0. 19=16-10-0.	1RC202 1) 2) 3) 4) d or 5) : LC	All plates are indicated. Gable requir Truss to be f braced again Gable studs Recommend 10-00-00 oc (0.131" X 3") at their outer DAD CASE(S)	Matrix-R e 1.5x3 () MT2(es continuous b ully sheathed fr ist lateral move spaced at 1-4-C 2x6 strongbacl and fastened to nails. Strongb ends or restrai Standard	0 unless of oottom chor om one fac ment (i.e. d) oc. ks, on edge o each truss acks to be ned by othe	therwise d bearing. e or securely iagonal web). e, spaced at s with 3-10d attached to w er means.	alls				Weight: /1 lb	FI = 20%F, 12%E
	Max Grav	18=16-10 20=16-10 22=16-10 22=16-10 29=16-10 29=16-10 16=27 (LC 18=153 (L 20=147 (L 24=147 (L 24=147 (L 27=147 (L 29=148 (L	-0, 13=16-10-0, -0, 23=16-10-0, -0, 28=16-10-0, -0, 28=16-10-0, -0, 28=16-10-0, -0, 30=16-10-0 C 1), 17=113 (LC 1), .C 1), 19=145 (LC 1) .C 1), 21=147 (LC 1) .C 1), 23=147 (LC 1) .C 1), 28=147 (LC 1) .C 1), 38=147 (LC 1) .C 1), 30=52 (LC 1)	, , ,										111.
FORCES	(lb) - Maxi Tension	imum Com	pression/Maximum										TH CA	RO
TOP CHORD	1-30=-49/ 3-4=-6/0, 7-8=-6/0, 12-13=-6/	0, 15-16=-; 4-5=-6/0, 5 8-10=-6/0, 0, 13-14=-0	20/0, 1-2=-6/0, 2-3=- 5-6=-6/0, 6-7=-6/0, 10-11=-6/0, 11-12=- 6/0, 14-15=-6/0	6/0, 6/0,							4	in	OT SS	The second
BOT CHORD	29-30=0/6 24-26=0/6 20-21=0/6 16-17=0/6	5, 28-29=0/ 5, 23-24=0/ 5, 19-20=0/ 5	6, 27-28=0/6, 26-27= 6, 22-23=0/6, 21-22= 6, 18-19=0/6, 17-18=	=0/6, =0/6, =0/6,									SEA 0363	L 22
WEBS	2-29=-132 5-26=-133 8-22=-133 12-19=-13	2/0, 3-28=- 3/0, 6-24=- 3/0, 10-21= 32/0, 13-18	134/0, 4-27=-133/0, 133/0, 7-23=-133/0, 133/0, 11-20=-134// =-138/0, 14-17=-107	0, 7/0									S. ENGIN	EEREATIN
NOTES													Jurin Jur	ne 3,2025

ute (www.tpinst.org) B18 Soundside Road Edenton, NC 27932

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 **ANSUTP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-El.4-Floor				
	2F1A	Floor	1	1	Job Reference (optional)	173911572			

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 Page: 1 ID:b9JRYIUBvMhsttN3OoQVoszC0wh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-0-0 16-10-0

Scale = 1:40.7

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2021/TPI2014	CSI TC BC WB Matrix-S	0.72 0.58 0.47	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.25 -0.35 0.05	(loc) 17-19 17-19 13	l/defl >796 >576 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 86 lb	GRIP 187/143 244/190 FT = 20%F, 12%E		
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)	•												
BRACING TOP CHORD BOT CHORD	Structural wood she 5-7-10 oc purlins, e Rigid ceiling directly bracing	2x4 SP No.3(flat) Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc												
REACTIONS	(size) 13=0-5-8, Max Grav 13=906 (L	, 21=0-3-8 _C 1), 21=906 (LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum	,											
TOP CHORD	1-21=-35/0, 12-13=- 2-3=-1896/0, 3-4=-3 5-6=-3570/0, 6-7=-3 9-10=-3096/0, 10-11	35/0, 1-2=-2/0, 120/0, 4-5=-3120/0, 570/0, 7-9=-3096/0,	/0											
BOT CHORD	20-21=0/1134, 19-20 16-17=0/3570, 15-10 13-14=0/1135	0=0/2629, 17-19=0/3 6=0/3570, 14-15=0/3	,0 3451, 2625,											
VVEB5	b-1/=-219/0. /-16=-	70/186. 2-21=-1420	/0.											

NOTES

 Unbalanced floor live loads have been considered for this design.

2-20=0/992, 3-20=-955/0, 3-19=0/627,

4-19=-84/0, 5-19=-422/0, 5-17=-146/496, 11-13=-1422/0, 11-14=0/995, 10-15=0/602,

10-14=-943/0, 9-15=-133/104, 7-15=-841/0

All plates are MT20 plates unless otherwise indicated.

 Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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 **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

A MiTek Affili 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty		Arlington Rev.1-EI.4-Floor	
	2F1	Floor	7	1	Job Reference (optional)	173911573

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 ID:b9JRYIUBvMhsttN3OoQVoszC0wh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





1-0-0 16-10-0

Scale = 1:36.8

ocale = 1.50.0												
Loading	(psf) 40.0	Spacing Plate Grip DOL	1-4-0 1.00	CSI TC	0.45	DEFL Vert(LL)	in -0.19	(loc) 17-19	l/defl >999	L/d 480	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.26	17-19	>771	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.04	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 86 lb	FT = 20%F, 12%E
UMBER												
FOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
NEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
FOP CHORD	Structural wood she	athing directly applie	ed or									
	6-0-0 oc purlins, ex	cept end verticals.	_									
BOT CHORD	Rigid celling directly	applied or 10-0-0 of	С									
PEACTIONS	(size) 13-0-5-8	21-0-3-8										
LACHONS	Max Grav 13=604 (L	_C 1), 21=604 (LC 1)									
ORCES	(lb) - Maximum Com Tension	pression/Maximum										
FOP CHORD	1-21=-23/0, 12-13=-	24/0, 1-2=-1/0,										
	2-3=-1264/0, 3-4=-2	081/0, 4-5=-2081/0,										
	5-6=-2380/0, 6-7=-2	380/0, 7-9=-2065/0,										
	9-10=-2065/0, 10-11	=-1267/0, 11-12=-1	/0									
BOT CHORD	20-21=0/756, 19-20=	=0/1752, 17-19=0/2	301,									
	16-17=0/2380, 15-16	6=0/2380, 14-15=0/	1750,									
NEDS	13-14=0/757 6 17_ 154/4 7 16_	10/110 2 21- 047/0	h									
NEB3	2-20=0/661 3-20=-6	40/110, 2-21=-94//0 36/0_3-19=0/420	<i>)</i> ,									
	4-19=-59/0. 5-19=-2	81/0. 5-17=-103/335	5.								MILLI	1111
	11-13=-948/0, 11-14	=0/663, 10-15=0/40)3,								WHILL CA	Dall
	10-14=-629/0, 9-15=	-94/76. 7-15=-559/0)								110	

NOTES

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

 All plates are 3x3 (=) MT20 unless otherwise indicated.
 Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls

at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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 **ANSUTP11 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.sbcaccomponents.com)



Job	Truss Type		Qty Ply		Arlington Rev.1-EI.4-Floor	
	2F2	Floor	1	1	I7 Job Reference (optional)	73911574

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 Page: 1 ID:yIHu?unIjEAgDK2d9mrbdQzC0v0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-0-0 <u>16-10-0</u>

Scale = 1:40.7

Loading	(psf)	Spacing	1-7-3	CSI	0.55	DEFL	in 0.22	(loc)	l/defl	L/d		GRIP
	40.0		1.00	RC RC	1.00	Vert(CT)	-0.22	17-19	>007	260	MT20113	244/100
	10.0	Ron Stross Incr	VES		0.20		-0.31	17-19	>042 n/a	500 n/o	101120	244/190
	5.0	Code	IEC2021/TEI201/	Matrix-S	0.50	11012(01)	0.05	15	11/a	11/a	Weight: 86 lb	FT - 20%F 12%F
DODE	0.0	Couc		Matrix O							Weight. 00 lb	11 = 20701, 12702
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
NEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood shea	athing directly applie	ed or									
	6-0-0 oc purlins, exe	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 2-2-0 oc										
	bracing.											
REACTIONS	(size) 13=0-3-8,	21=0-3-8										
	Max Grav 13=730 (L	_C 1), 21=725 (LC 1))									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-21=-28/0, 12-13=-3	32/0, 1-2=-2/0,										
	2-3=-1517/0, 3-4=-24	497/0, 4-5=-2497/0,										
	5-6=-2856/0, 6-7=-28	856/0, 7-9=-2479/0,										
	9-10=-2479/0, 10-11	=-1520/0, 11-12=0/0)									
BOT CHORD	20-21=0/907, 19-20=	=0/2103, 17-19=0/27	761,									
	16-17=0/2856, 15-16	6=0/2856, 14-15=0/2	2100,									
	13-14=0/909	10/100 0 01 1100	10									
WEB2	$b^{-1}/=-185/5$, $7-16=-4$	48/132, 2-21=-1136/	ΰ,									
	2-20=0/193, 3-20=-1	03/0, 3-19=0/303, 27/0 5 17- 122/402	,									11
	4-19=-70/0, 5-19=-3	1-0/706 10-11- 75	., 5/0								IN CA	D''''
	10-15=0/484 9-15=-	-114/92 7-15=-671/0	טיט, ר							1	TH UA	NOIL
	10 10-0/404, 3-13-	117/02, 1-10011/0	5							× *	10.	

NOTES

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

- All plates are MT20 plates unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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 **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type		Ply	Arlington Rev.1-El.4-Floor			
	2F3	Floor	2	1	Job Reference (optional)	173911575		

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:20 ID:QUu7LsCFT?aiwiEMidzoYpzC0uT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







1-0-0 17-4-0

Scale = 1:40.7

		i										
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.26	17	>777	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.36	17	>563	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		()					Weight: 88 lb	FT = 20%F, 12%E
											0	, ,
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP SS(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she 5-9-13 oc purlins.	athing directly applie xcept end verticals.	d or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	:									
REACTIONS	(size) 13=0-3-0, Max Grav 13=940 (L	21=0-3-8 _C 1), 21=933 (LC 1)	1									
FORCES	(lb) - Maximum Com	pression/Maximum										
	1-21-35/0 12-13-	30/0 1-22/0										
	2-31965/0 3-43	254/0 4-53254/0										
	5-6=-3803/0 6-7=-3	803/0 7-9=-3252/0										
	9-10-3252/0 10-11	1967/0 11-12-0/0)									
BOT CHORD	20-21=0/1170 19-20	0=0/2730 17-19=0/3	, 1623									
201 0.10112	16-17=0/3803 15-16	6=0/3803 14-15=0/2	725									
	13-14=0/1173											
WEBS	6-17=-243/0. 7-16=-	80/155. 2-21=-1466/	0.									
	2-20=0/1035, 3-20=-	-995/0, 3-19=0/669,	- /									
	4-19=-88/0, 5-19=-4	72/0, 5-17=-115/569	,								minin	UIII.
	11-13=-1471/0, 11-1	4=0/1035, 10-14=-9	86/0,								IN'LY CA	Pall
	10-15=0/673, 9-15=-	-181/63, 7-15=-898/0)							1	all	01/11
NOTES										E.	O'.EES8	Provide States
1) Unbalance	ed floor live loads have	been considered for	r							77	10-1	Na Zil
, this design	۱.										:0	
2) All plates a	are MT20 plates unles	s otherwise indicated	l.						-		0.54	: -
3) Recomme	nd 2x6 strongbacks, o	n edge, spaced at								:	SEA	L : =
10-00-00 c	oc and fastened to eac	h truss with 3-10d							=		0363	22 E
(0.131" X 3	3") nails. Strongbacks	to be attached to wa	alls						-			
at their out	ter ends or restrained l	by other means.									Ν.	1 3
4) CAUTION,	, Do not erect truss ba	ckwards.							S	1 .	1. E.	Airs
LOAD CASE(S	S) Standard									25	GIN	EFRAN
										11	10	allin



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

G minin June 3,2025

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor				
	2F4	Floor	5	1	Job Reference (optional)	173911576			

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:21 ID:dDDr3Ua8sjpgz3M4qsVIdezC0si-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







1-0-0 17-4-0

Scale = 1:40.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.26	17	>777	480	MT20HS	187/143	
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.36	17	>563	360	MT20	244/190	
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	13	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%F, 12	2%E
LUMBER													
TOP CHORD	2x4 SP No.2(flat)												
BOT CHORD	2x4 SP SS(flat)												
WEBS	2x4 SP No.3(flat)												
OTHERS	2x4 SP No.3(flat)												
BRACING													
TOP CHORD	Structural wood she 5-9-13 oc purlins, e	athing directly applie xcept end verticals.	ed or										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	c										
REACTIONS	(size) 13=0-3-8,	21=0-3-8											
	Max Grav 13=940 (L	_C 1), 21=933 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-21=-35/0, 12-13=-	39/0, 1-2=-2/0,											
	2-3=-1965/0, 3-4=-3	254/0, 4-5=-3254/0,											
	5-6=-3803/0, 6-7=-3	803/0, 7-9=-3252/0,											
	9-10=-3252/0, 10-11	=-1967/0, 11-12=0/	0										
BOT CHORD	20-21=0/1170, 19-20	0=0/2730, 17-19=0/3	3623,										
	16-17=0/3803, 15-10	6=0/3803, 14-15=0/2	2725,										
WERS	6 17- 2/2/0 7 16-	90/155 2 21- 1466	/0										
WEB3	2-20-0/1035 3-20-	-995/0 3-19-0/669	70,										
	4-19=-88/0 5-19=-4	72/0 5-17=-115/569	A									1111	
	11-13=-1471/0. 10-1	5=0/673. 11-14=0/1	035.								N' ULCA	Dalle	
	10-14=-986/0, 9-15=	-181/63, 7-15=-898	/0							15	"ath on	01 11	
NOTES									/	S	On ASS	to All	1
1) Unbalance	ed floor live loads have	been considered fo	or						4	Ú/	10 1		2
this design	n.										:4		1.
2) All plates	are MT20 plates unles	s otherwise indicate	d.						-		054	· · · ·	-
3) Recomme	end 2x6 strongbacks, o	n edge, spaced at									SEA	L 🧯	Ξ
10 00 00		h trucc with 2 10d							_				

 Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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 **ANSUTP11 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.sbcaccomponents.com)



SEAL 036322 VGINEER A. GILBER June 3,2025

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor				
	2F5	Floor	1	1	Job Reference (optional)	173911577			

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:21 Page: 1 ID:aEV9u2qNMgwwS2J3whMhrZzC0r4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-0-0 16-1-15

Scale = 1:40.7

		1										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.24	16-18	>800	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.33	16-18	>580	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 82 lb	FT = 20%F, 12%E
							-				_	
	2v4 SP No 2(flat)											
BOT CHORD	2x4 SP SS(flat)											
WEBS	2x4 SP No 3(flat)											
OTHERS	2x4 SP No 3(flat)											
BRACING	2,4 01 10.0(100)											
	Structural wood cho	athing directly applie	d or									
TOP CHORD	5-10-10 oc purlins	except end verticals										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or										
Bot offord	bracing.											
REACTIONS	(size) 12=0-3-3.	20=0-3-8										
	Max Grav 12=875 (L	_C 1), 20=869 (LC 1)	1									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-20=-35/0, 11-12=-	41/0, 1-2=-2/0,										
	2-3=-1802/0, 3-4=-2	942/0, 4-6=-2942/0,										
	6-7=-3262/0, 7-8=-3	262/0, 8-9=-2906/0,										
	9-10=-1806/0, 10-11	=0/0										
BOT CHORD	19-20=0/1085, 18-19	9=0/2495, 16-18=0/3	219,									
	15-16=0/3262, 14-15	5=0/3262, 13-14=0/2	480,									
	12-13=0/1090											
WEBS	7-16=-183/0, 8-15=-	73/302, 2-20=-1358/	0,									
	2-19=0/934, 3-19=-9	02/0, 3-18=0/570,										CR. CO.
	4-18=-79/0, 6-18=-3	63/0, 6-16=-195/409	,								11111	1111
	10-12=-1368/0, 10-1	3=0/931, 9-13=-877	/0,								N'TH CA	Rollin
	9-14=0/618, 8-14=-7	34/0								15	R	· Stall
NOTES										12	EESS.	CALL ST
1) Unbalance	ed floor live loads have	been considered for	r						Z	97		Bill
this design). MTOO alata a vala a								-		Q -	
 All plates a Decomposition 	are IVI I 20 plates unles	s otherwise indicated	1.						-	:	SEA	i : :
3) Recommen	nd 2x6 strongbacks, o	n edge, spaced at							=	:	JLA	- : =
(0.121" X 2	C and lastened to eac	to be attached to wr							=		0363	22 : =
at their out	ter ends or restrained l	hy other means	ali5						-			1 - E
4) CAUTION	Do not erect truss ha	ckwards								-	1. A.	1 1 E
	s) Standard									20	N. SNOW	Enix
										1	SUCIN	1. AS
										1	10	. BE N

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 BCEL Building Component Stability and proposed to component development description. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



G minin

June 3,2025

Job	Truss Truss Type					Qty		Ply	Arlingto	n Rev.	1-EI.4-	-Floor	r	17001	-70
		2F6A		Floor		2		1	Job Ref	erence	e (optic	onal)		173911	0/8
Structural, LLC,	Thurmont, MD -	21788,			Run: 25.20 S May 13	2025 P	Print: 25	5.2.0 S May	13 2025 N	MiTek In	dustrie:	s, Inc.	Mon Jun 02 18:25:	21	Page: 1
					1D.Koke_130E7 Oq1104	SKC TE :	20012-	NIC F SD/	n iqərəəyr	queow	Sun XD	GRW	0001734230?1		
				1-1-0	2-0-0			1-	7-12						
	-	1-3-0		· · ·	1.5x3 u	4-4	-		3x6 FP						
	3x3 i	ш 3х	3 = 3x3 =	= 3x3 = 1.5x3 II	1.5x3 ျ	4x	x6 =	3x6 =	1.5	5x3 u	3x3 =	-	3x3 =	3x3 II	
	1	2	3	4 5	6 7	8	8	9	10 1	1	12		13	14	
	0-2-0-24														
	-									<u>/</u>					
	3x6	-	23	22 21 3x6=	20 19 4x4 =			⊠ 18	1	7 x6 =			16	⊠ 3×6 =	
			3x3 =	MT20HS 3x81	=P			3x6 =				;	3x3 =	0.00 -	
					3x3 =										
					9-10-0										
					8-10-0										
	-		7-10-0		+ + +	12-8 2-10	<u>8-4</u> 0-4				<u>19-</u> 7-1	<u>10-0</u> -12			
					1-0-0										
					1-0-0										
Scale - 1:38 3					19-10-0										
Plate Offsets (X, Y): [19:0-1	-8,Edge]												
Loading		(psf)	Spacing	2-0-0	CSI	D	DEFL		in (loc	c) I/c	defl	L/d	PLATES	GRIP	
TCLL TCDL		40.0 10.0	Plate Grip DOL Lumber DOL	1.00 1.00	TC 0. BC 0.	62 V 60 V	Vert(LL Vert(C⁻	L) -0.2 T) -0.2	21 20-2 28 20-2	2 >7 2 >5	734 4 535 3	480 360	MT20HS MT20	187/143 244/190	
BCLL		0.0 5.0	Rep Stress Incr	YES IRC2021/TPI2014	WB 0. Matrix-S	56 H	Horz(C	T) 0.0)2 1	5	n/a	n/a	Weight: 103 lb	FT – 20%	F 12%F
TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) All plates a 3) Refer to gi	2x4 SP SS(f 2x4 SP SS(f 2x4 SP SS(f 2x4 SP No.3 Structural w 6-0-0 oc pur Rigid ceiling bracing, Ex 6-0-0 oc bra (size) 1 Max Grav 1 (b) - Maximi Tension 1-24=-39/0, 2-3=-1327/0 5-6=-1698/ 12-13=-591/ 23-24=0/836 12-13=-591/ 23-24=0/836 16-17=0/698 6-20=0/195, 2-24=-1049/ 8-18=-1022/ 3-23=-622/0 5-20=-524/0 12-17=-299/ ed floor live loa h are MT20 plate rder(s) for trus	ilat) ilat) (i	athing directly applied cept end verticals. applied or 10-0-0 oc -18. 18=0-3-8, 24= al .C 7), 18=1112 (LC 1) .C 3) pression/Maximum 37/0, 1-2=0/0, 020/0, 4-5=-2020/0, 6088/0, 7-8=-1698/0, 546/0, 11-12=-546/0, =0/1804, 20-22=0/204 9=0/770, 17-18=-346/ =0/452 114/0, 9-18=-547/0, c0/639, 3-22=0/275, c0/1182, 13-15=-567/0 52/0, 5-22=-65/17, c0/181, 12-16=-141/0, =-129/0, 9-17=0/666 been considered for s otherwise indicated. is connections.	10-00-00 oc. (0.131" X 3") at their outer 5) CAUTION, D d or LOAD CASE(S)),), 17, 49, 0,	and fastened to each t nails. Strongbacks to ends or restrained by o not erect truss back Standard	russ w be atta other r wards.	vith 3-1	IOd to walls S.			Contraction of the second seco		SEA 0363	R 22 L 22 ILBER ILBER ILBER	
WARN Design v a truss s	IING - Verify desigr alid for use only w ystem. Before use design. Bracing in	n paramete vith MiTek@ e, the buildi	rs and READ NOTES ON T of connectors. This design is ing designer must verify the to prevent buckling of indiv	HIS AND INCLUDED MITEK RE s based only upon parameters e applicability of design parame idual truss web and/or chord m	EFERENCE PAGE MII-7473 i shown, and is for an individu ters and properly incorporat nembers only. Additional ter	ev. 1/2/2 al buildin e this de	2023 BE ling com esign int	FORE USE. ponent, not o the overall manent brac	ina					NC	

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

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	2FGE2	Floor Supported Gable	1	1	Job Reference (optional)	173911579

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:23 ID:igVn_rT34qgBg0tDNMRVWXzBeFh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:26.2

Load TCLL TCDL BCLL BCDL	ling - -	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2021/TPI2014	CSI TC BC WB Matrix-R	0.08 0.02 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 28 lb	GRIP 244/190 FT = 20%F, 12%E	
	_				1									
JUME FOP BOT WEB: OTHE	BER CHORD CHORD S ERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)												
TOP	CHORD	Structural wood she	athing directly applie	ed or										
вот	CHORD	6-0-0 oc purlins, exe Rigid ceiling directly	cept end verticals. applied or 10-0-0 oc	;										
REAG	CTIONS	(size) 7=6-0-0, 8 10=6-0-0, Max Grav 7=59 (LC (LC 1), 10 1) 12=17	B=6-0-0, 9=6-0-0, 11=6-0-0, 12=6-0-0 1), 8=148 (LC 1), 9= 0=153 (LC 1), 11=10 (I C 1)	-145 5 (LC										
FOR	CES	(lb) - Maximum Com	pression/Maximum											
TOP	CHORD	6-7=-55/0, 1-12=-9/0 3-47/0 4-57/0 5), 1-2=-7/0, 2-3=-7/0	,										
вот	CHORD	11-12=0/7, 10-11=0/ 7-8-0/7	/7, 9-10=0/7, 8-9=0/7	7,										
WEB	S	5-8=-133/0, 4-9=-13 2-11=-102/0	2/0, 3-10=-139/0,											
NOTE	ES	2										MILLI	1111.	
1) A ir	Il plates andicated.	are 1.5x3 () MT20 un	lless otherwise								11	"HTH CA	ROL	
2) G 3) T	able req	uires continuous bottor e fully sheathed from c	m chord bearing. one face or securely							4	i	20FF	Nin	
b 1) כ	raced ag	ainst lateral movement	t (i.e. diagonal web).							-		2	· · · =	
5) R	ecomme 0-00-00 (and 2x6 strongbacks, o bc and fastened to eac	n edge, spaced at h truss with 3-10d									SEA		

10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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 **ANSUTP11 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.sbcaccomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	2F7A	Floor	3	1	Job Reference (optional)	173911580

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:21 Page: 1 ID:ba8lk7shLnds86JPO2OdnUzC0pl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-0-0 16-0-0

Scale = 1:40.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.23	15-17	>804	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.32	15-17	>583	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 lb	FT = 20%F, 12%E
	2v/LSP No 2(flat)											
BOT CHORD	2x4 SP SS(flat)											
WERS	2x4 SP No 3(flat)											
OTHERS	2x4 SP No 3(flat)											
BRACING												
	Structural wood she	athing directly appli	ed or									
	5-11-7 oc purlins e	acting unecuy appli-										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	c									
	bracing.		•									
REACTIONS	(size) 11=0-3-8.	19=0-3-8										
	Max Grav 11=866 (L	_C 1), 19=860 (LC 1)									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-19=-35/0, 10-11=-	40/0, 1-2=-2/0,										
	2-3=-1779/0, 3-4=-2	898/0, 4-5=-2898/0,										
	5-6=-3187/0, 6-7=-3	187/0, 7-8=-2875/0,										
	8-9=-1782/0, 9-10=0	0/0										
BOT CHORD	18-19=0/1073, 17-18	8=0/2462, 15-17=0/	3163,									
	14-15=0/3187, 13-14	4=0/3187, 12-13=0/	2444,									
	11-12=0/1080											
WEBS	6-15=-177/0, 7-14=-	70/353, 2-19=-1343	/0,									
	2-18=0/920, 3-18=-8	389/0, 3-17=0/557,	-									11
	4-1/=-/9/0, 5-1/=-3	49/0, 5-15=-205/38	7,									
	9-11=-1354/0, 9-12=	=0/914, 8-12=-861/0	,								IN THUA	Boltz
	0-13=0/032, 7-13=-7	49/0								S.	A	S. J. Inter
NOTES	ad fla an line la ada l	have seeded of								52	C.FESO	ANT ALL
1) Unbalance	ed floor live loads have	e been considered to	Dr						9		lt 1	

1

All plates are MT20 plates unless otherwise indicated. 2) 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards. LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type Qty Ply		Ply	Arlington Rev.1-EI.4-Floor	
	2F8A	Floor	1	1	Job Reference (optional)	173911581

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:21 ID:Br_kX?LgyzLpNYzYOnRSeEzBeSI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





1-0-0 16-2-0

Scale = 1:40.7

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.24	16-18	>800	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.33	16-18	>580	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 82 lb	FT = 20%F, 12%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP SS(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she 5-10-10 oc purlins.	athing directly applie except end verticals	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	c									
REACTIONS	(size) 12=0-5-8, Max Grav 12=875 (L	, 20=0-3-8 _C 1), 20=869 (LC 1)									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-20=-35/0, 11-12=-	41/0, 1-2=-2/0,										
	2-3=-1803/0, 3-4=-2	943/0, 4-6=-2943/0,										
	6-7=-3263/0, 7-8=-3	263/0, 8-9=-2907/0,										
	9-10=-1806/0, 10-11	I=0/0										
BOT CHORD	19-20=0/1085, 18-19	9=0/2496, 16-18=0/3	3220,									
	15-16=0/3263, 14-1	5=0/3263, 13-14=0/2	2480,									
	12-13=0/1091											
WEBS	7-16=-184/0, 8-15=-	73/301, 2-20=-1359	/0,									
	2-19=0/934, 3-19=-9	302/0, 3-18=0/571, 22/0, 6, 16 - 105/11	`									116
	4-10=-79/0, 0-10=-3	03/0, 0-10=-195/410), 2/0								11111 00	111, IL
	9-14-0/617 8-147	734/0	5/0,							1	TH UA	ROUT
NOTES	5 14=0/017, 0 14= 7	04/0								1	A	in Inde
1) Unbalance	od floor live loode hove	boon considered fo)r							~~	OFEUU	Made
this design	n nool live loaus liave		Л						4	11		
 All plates : 	are MT20 plates unles	s otherwise indicate	d									1 1 1 E -
3) Recomme	and 2x6 strongbacks, o	n edge, spaced at	u.						=		SEA	L : :
10-00-00	oc and fastened to eac	ch truss with 3-10d							=	:	0202	oo : =

 Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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 **ANSUTPI1 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.sbcaccomponents.com)



SEAL 036322 A. GILBER June 3,2025

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-El.4-Floor	
	2F9	Floor	2	1	Job Reference (optional)	173911582

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:21 Page: 1 ID:7mAL4InFU1uih4jTVL4v5qzBeSB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-0-0

13-7-8

0	4 00 4	
Scale	= 1:39.1	

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2021/TPI2014	CSI TC BC WB Matrix-S	0.54 0.48 0.35	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.17 0.03	(loc) 11-12 11-12 9	l/defl >999 >934 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 69 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 9=0-2-0, 1 (size) 9=736 (LC	athing directly applie cept end verticals. applied or 10-0-0 o 15=0-3-8 C 1), 15=729 (LC 1)	ed or C									
FORCES TOP CHORD BOT CHORD WEBS	TIONS (size) $9=0-2-0, 15=0-3-8$ Max Grav $9=736$ (LC 1), $15=729$ (LC 1) ES (lb) - Maximum Compression/Maximum Tension HORD $1-15=-34/0, 8-9=-43/0, 1-2=-2/0, 2-3=-1446/0, 3-4=-2310/0, 4-5=-2310/0, 5-6=-2204/0, 6-7=-1458/0, 7-8=-0/0$ HORD $14-15=0/903, 13-14=0/1975, 12-13=0/2310, 11-12=0/2310, 10-11=0/1985, 9-10=0/900$ 3 - 4-13=-243/0, 5-12=-177/102, 2-15=-1130/0, 2-14=-089/0, 3-13=0/0605, 7-9=-1129/0, 7-10=0/726, 6-10=-686/0.											
NOTES 1) Unbalancer this design. 2) Provide me bearing pla 3) Recommer 10-00-00 or (0.131" X 3 at their oute 4) CAUTION, LOAD CASE(S	d floor live loads have chanical connection (te at joint(s) 9. d 2x6 strongbacks, or c and fastened to eac ") nails. Strongbacks er ends or restrained to Do not erect truss bac) Standard	been considered for by others) of truss t n edge, spaced at h truss with 3-10d to be attached to w by other means. ckwards.	or o alls						CA HILLING		SEA 0363	L 22 LBERT

100000 June 3,2025

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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty Ply Arlington Rev.1-El.4-Floor		Arlington Rev.1-EI.4-Floor	
	2F10	Floor	3	1	Job Reference (optional)	173911583

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:22 Page: 1 ID:?p8Vj6i74VvSd4CRhuVAAlzBU8X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:43.9

				-		-							-		
Load TCLL TCDL BCLL	ing	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 NO		CSI TC BC WB	0.67 0.55 0.34	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.17 0.03	(loc) 12-13 12-13 10	l/defl >999 >927 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190	
BCDL	-	5.0	Code	IRC2021	/TPI2014	Matrix-S		- (-)		-			Weight: 76 lb	FT = 20%F, 12	%E
LUME TOP (BOT (WEBS OTHE BRAC TOP (BER CHORD CHORD S ERS CING CHORD	2x4 SP No.2(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Bioid ceiling directly	athing directly applicept end verticals.	1) ed or	Dead + Flo Plate Incre Uniform Lo Vert: 10- Concentrat Vert: 1=-	or Live (balanced ase=1.00 ads (lb/ft) 17=-10, 1-9=-10(ed Loads (lb) 161	ป): Lumber ว	Increase=1	.00,						
BOT	CHORD	bracing, Except: 6-0-0 oc bracing: 16	-17.	C											
REAC	CTIONS	(size) 10=0-3-8, Max Grav 10=723 (L	16=0-3-8 _C 4), 16=1015 (LC	1)											
FOR	CES	(lb) - Maximum Com	pression/Maximum												
TOP	CHORD	1-17=-200/0, 9-10=- 3-4=-1315/0, 4-5=-2 6-72143/0, 7-81	43/0, 1-2=0/0, 2-3= 226/0, 5-6=-2226/0, 427/0 8-9=0/0	0/176,											
BOT	CHORD	16-17=-176/0, 15-16 13-14=0/2226, 12-13 10-11=0/883	6=0/765, 14-15=0/18 3=0/2226, 11-12=0/	364, 1941,											
WEB	S	2-16=-290/0, 5-14=- 2-17=0/262, 3-16=-1 4-15=-720/0, 4-14=0 8-11=0/708, 7-11=-6 6-12=-344/107	254/0, 6-13=-198/8 1132/0, 3-15=0/720, 0/647, 8-10=-1108/0 669/0, 7-12=0/354,	4, ,									TH CA	Rojin	
NOTE	ES	0 12 0 1 // 101										E	OhirESS	ig N'	
1) U	Inbalance	ed floor live loads have	e been considered fo	or							-	12	100	N.	2
2) L d fc	oad case esigner mor the inte	 (s) 1 has/have been m nust review loads to ve ended use of this truss	nodified. Building erify that they are co	orrect							11111		SEA	L	WH H
3) R 1	ecommei 0-00-00 c	nd 2x6 strongbacks, o oc and fastened to eac	n edge, spaced at th truss with 3-10d								1111.		0363		UIII.

(0.131" X 3") nails. Strongbacks to be attached to walls

at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	2F11	Floor	3	1	Job Reference (optional)	173911584

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:22 Page: 1 ID:4c6MHVnVspsxiXZ7chtXI0zBeCh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:43.9

00010 - 1.40.0												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.17	12-13	>938	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		(Weight: 75 lb	FT = 20%F. 12%E
_					-	ļ	-		-			,
LUMBER			1) Dead -	Floor Live (balanced	d): Lumbe	r Increase=1	.00,					
TOP CHORD	2x4 SP No.2(flat)		Plate I	ncrease=1.00								
BOT CHORD	2x4 SP SS(flat)		Unifor	m Loads (lb/ft)								
WEBS	2x4 SP No.3(flat)		Vert	: 10-17=-10, 1-9=-10	0							
OTHERS	2x4 SP No.3(flat)		Conce	ntrated Loads (lb)								
BRACING	· · /		Vert	: 1=-300								
TOP CHORD	Structural wood she	athing directly applie	ed or									
	6-0-0 oc purlins ex	cent end verticals										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	C.									
Bor onone	bracing Except		0									
	6-0-0 oc bracing: 16	6-17.15-16.										
REACTIONS	(size) 10=0-3-0	16=0-3-8										
	Max Grav 10=711 (LC 4), 16=1161 (LC	1)									
FORCES	(lb) - Maximum Con	noression/Maximum										
	Tension	ipi ocolori, maximani										
TOP CHORD	9-10=-43/0. 1-17=-3	338/0. 1-2=0/0. 2-3=0)/298.									
	3-4=-1208/0. 4-5=-2	146/0. 5-6=-2146/0.	,									
	6-7=-2084/0 7-8=-1	397/0 8-9=0/0										
BOT CHORD	16-17=-298/0 15-16	6=-43/650 14-15=0/	1768									
201 0110112	13-14=0/2146 12-1	3=0/2146 11-12=0/1	1896									
	10-11=0/868	0 0/2110, 11 12 0/										
WEBS	2-16=-428/0 5-14=-	-261/0 6-13=-215/74	1									
WEB0	3-16=-1142/0 3-15	=0/730 4-15=-734/0	',									
	4-14=0/668.8-10=-	1088/0. 8-11=0/689.	,									1111
	7-11=-650/0 7-12=0	0/337 6-12=-315/13	7								W'LL CA	Delle
	2-17=0/446	0,001,012 010,10	.,							1	THUM	10/11/
NOTES											044585	Do Nila-
1) Unbalance	ed floor live loads have	a been considered fo	n r							22		No stall
this design			//								in the second	1. 2
2) Load case	n. a(s) 1 has/have been n	nodified Building							-	6 8		
designer n	nust review loads to w	erify that they are co	rrect								SEA	
for the inte	ended use of this truss		neot						=		0000	
3) Recomme	and 2x6 strongbacks	n edge snaced at							-		0363	22 : 5
10-00-00	nc and fastened to ear	sh trues with 3-10d							-	- Q		
(0 131" X	3") nails Strongbacks	s to be attached to w	alle							-	1	1
at their ou	ter ends or restrained	hy other means								11	N. SNOW	-ERIX S
4) CAUTION	Do not erect truss be	ckwards								1	A. GIN	E. A.S
	Standard									1	CA -	IL BEIN
LUAD CASE(J Stanualu										11, A. G	IL IIII
											11111	1111
											Jur	ne 3.2025

818 Soundside Road Edenton, NC 27932

June 3,2025

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss Type		Qty	Ply	Arlington Rev.1-EI.4-Floor	
	2FGE3	Floor Supported Gable	1	1	Job Reference (optional)	173911585

Run: 25.10 E Apr 28 2025 Print: 25.1.0 E Apr 28 2025 MiTek Industries, Inc. Tue Jun 03 17:01:25 ID:xhEcPq5gcW2ZzVLQim8wIbzC0j?-aQt_3EmGw_U6XmABvFdz5mYNgsAv5PkABdkjazA5S9

Page: 1



Scale = 1	:46.2
-----------	-------

Load TCLL TCDL BCLL BCDL	ing -		(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 NO IRC202	1/TPI2014	CSI TC BC WB Matrix-S	0.35 0.37 0.11	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 39 lb	GRIP 244/190 FT = 20%F, 12%E
LUME TOP (BOT (WEBS OTHE BRAC TOP (BOT (REAC	SER CHORD CHORD S ERS CING CHORD CHORD CHORD CHORD (lb) -	2x4 SP No 2x4 SP No 2x4 SP No 2x4 SP No Structural 6-0-0 oc p Rigid ceili bracing. All bearings Max Uplift Max Grav	5.2(flat) 5.2(flat) 5.3(flat) 5.3(flat) 5.3(flat) wood sheat ourlins, exc ng directly 6.6-9-8. All uplift 10 except 14. All reaction (s) 9, 10, 7	athing directly applie ept end verticals. applied or 10-0-0 or 200 (Ib) or less at joir =-525 (LC 3) ns 250 (Ib) or less at 11, 12, 13, 14 except	9) L(1) c nt(s) t joint st	CAUTION, D OAD CASE(S) Dead + Floc Plate Increa Uniform Loa Vert: 9-16 Concentrate Vert: 1=-8	o not erect truss ba Standard or Live (balanced): se=1.00 ids (lb/ft) 5=-7, 1-8=-67 id Loads (lb) 36	ackward	ds. r Increase=1.(00,					
FOR	CES S	(lb) - Max. (lb) or less 2-15=-334	15=696 (L Comp./Ma s except wh /0	C 3) ax. Ten All forces nen shown.	250										
NOTE	ES	2 10- 00													
 1) U th 2) A in 3) T bi bi 4) G 5) N/ 	and an Ce nis design adicated. russ to b raced aga able stud A	are 1.5x3 () e fully sheat ainst lateral ds spaced at	MT20 un hed from o movement t 1-4-0 oc.	less otherwise ne face or securely (i.e. diagonal web).								Marine Contraction of the second seco	A	SEA	ROUNT
 6) N 7) Li di fc 8) R 11 (0 ai 	ion Stand oad case esigner n or the inte ecomme 0-00-00 c 0.131" X t their out	dard bearing e(s) 1 has/ha nust review ended use of end 2x6 stror oc and faste 3") nails. St ter ends or r	condition. we been m loads to ve f this truss. ngbacks, or ned to eacl rongbacks estrained b	Review required. odified. Building rify that they are co n edge, spaced at n truss with 3-10d to be attached to w by other means.	rrect alls							IIII.	A A A A A A A A A A A A A A A A A A A		

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut Information, purplication for the trust structure Bucking Component Advancement and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

June 3,2025

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	
	2F12	Floor	3	1	Job Reference (optional)	173911586

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:22 Page: 1 ID:6pPmibDZ0uR?oBhYrarVEvzC0iq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



7-9-8





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 NO IRC2021/TPI2014	CSI TC BC WB Matrix-P	0.18 0.10 0.16	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 8-9 8-9 7	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 45 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing, Except: 10-0-0 oc bracing; 7	athing directly applie cept end verticals. applied or 6-0-0 oc -8.	Concentrat Vert: 1=-	ed Loads (lb) 186								
REACTIONS	(size) 7=0-3-8, Max Grav 7=208 (L0	10=0-3-8 C 4). 10=526 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-11=-210/0, 6-7=-2 2-3=-112/88, 3-4=-1 5-6=-1/0	2/0, 1-2=0/0, 12/88, 4-5=-272/0,										
BOT CHORD	10-11=-190/0, 9-10=	-187/0, 8-9=-15/283	l,									
WEBS	7-8=0/237 2-10=-510/0, 2-11=0 5-8=-12/46, 4-8=-14 3-9=-65/0, 2-9=0/34)/283, 5-7=-296/0, /44, 4-9=-225/0, 3										
 this design Load case designer n for the inte Recomme 10-00-00 c (0.131" X 3 at their out CAUTION 	h. (s) 1 has/have been m nust review loads to ve onded use of this truss nd 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks ter ends or restrained , Do not erect truss ba	nodified. Building orify that they are cou- n edge, spaced at th truss with 3-10d to be attached to wa by other means. ckwards.	rrect alls						Winner	The second se	SEA 03632	- 22
LOAD CASE(1) Dead + F Plate Incl Uniform I Vert: 7	S) Standard Floor Live (balanced): L rease=1.00 Loads (lb/ft) f-11=-7, 1-6=-67	_umber Increase=1.0	00,						5		A. G. Jun	LBERTING 1. BERTING e 3,2025

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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor		
	2F13	Floor	1	1	Job Reference (optional)	173911587	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:22 Page: 1 ID:USSi1mZjpqJc6lz1iDGIPDzBU67-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:43.9

Loading TCLL	(psf) 40.0	Spacing Plate Grip DOL	1-4-0 1.00		CSI TC	0.23	DEFL Vert(LL)	in -0.02	(loc) 17-18	l/defl >999	L/d 480	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.00		BC	0.16	Vert(CT)	-0.02	17-18	>999	360	-	
BCLL	0.0	Rep Stress Incr	NO		WB	0.16	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2021	/TPI2014	Matrix-S							Weight: 81 lb	FT = 20%F, 12%E
LUMBER			LO	AD CASE(S)	Standard								
TOP CHORD	2x4 SP No.2(flat)		1)	Dead + Flo	or Live (balanced)	: Lumbe	r Increase=1.0	00,					
BOT CHORD	2x4 SP No.2(flat)			Plate Increa	ase=1.00								
WEBS	2x4 SP No.3(flat)			Uniform Lo									
OTHERS	2x4 SP No.3(flat)			Concentrate	19=-7, 1-11=-07								
BRACING			. ما م	Vert 1	228								
TOP CHORD	Structural wood she	eatning directly applie	ed or	vent. 1=-	220								
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc											
	bracing, Except:												
	10-0-0 oc bracing: 1	3-14,12-13.											
REACTIONS	(size) 12=0-3-8	, 15=0-3-8, 18=0-3-8											
	Max Grav 12=264 (LC 11), 15=514 (LC	12),										
	18=562 (LC 3)											
FORCES	(lb) - Maximum Con	npression/Maximum											
	l ension	25/0 1 2 0/0											
TOP CHORD	2-3-0/224 3-422	=-25/0, 1-2=0/0, 1/115_4-5221/115											
	5-6=0/227, 6-7=0/22	25. 7-8=-375/0.											
	8-9=-375/0, 9-10=-4	04/0, 10-11=0/0											
BOT CHORD	18-19=-224/0, 17-18	8=-160/73,											
	16-17=-115/221, 15	-16=-115/221,	_										
	14-15=-8/171, 13-14	4=0/478, 12-13=0/30	6										1770
WEBS	2-18=-336/0, 6-15=-	-80/0, 2-19=0/335,										11111 01	1111
	5-16=0/29 10-12=-	384/0 10-13=0/127										N'STH UP	ROUT
	9-13=-97/0, 9-14=-1	77/0, 8-14=-67/0,									A	ON JESS	in Alle
	7-14=0/307, 7-15=-3	347/0, 3-17=0/195									27	1 DTL	No. Sin
NOTES										4	1		All.
1) Unbalance	ed floor live loads have	e been considered fo	r							-		054	
this desigr).									Ξ	-	SEA	L : E
Load case	(s) 1 has/have been n	nodified. Building								1		0363	22 : =
designer n	nust review loads to ve	erity that they are co	rrect							-			- : :
3) Recomme	nd 2x6 strongbacks. c	on edge, spaced at									-	·	- 1 E

- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

A. GILD

June 3,2025

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 **ANSUTP11 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.sbcaccomponents.com)



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-El.4-Floor			
	2F14	Floor	1	1	Job Reference (optional)	73911588		

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:22 Page: 1 ID:L?OJT2wtvDHYILGktquejezC0jD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



NOTES

WEBS

Scale = 1:38.6 Loading

TCLL

TCDI

BCLL

BCDL

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD

BOT CHORD

- Unbalanced floor live loads have been considered for 1) this design.
- 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

WITH THE WALK MULLIUM, SEAL 036322 G mm June 3,2025

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.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor	173911589	
	2FGE4	Floor Supported Gable	1	1	Job Reference (optional)		
Structural, LLC, Thurmont, MD -	21788,	Run: 25.20 S May 13	2025 Print: 2	25.2.0 S May	13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:23	Page: 1	





12-2-0
12-2-0

Scale - 1.24

00010 - 1.24														
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 IRC2021/TF	912014	CSI TC BC WB Matrix-R	0.05 0.01 0.02	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 52 lb	GRIP 244/190 FT = 20%F, 1	12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood abo		5) R 1((0 at LOAD	ecommend 0-00-00 oc : .131" X 3") their outer • CASE(S)	2x6 strongbacks and fastened to e nails. Strongbac ends or restraine Standard	a, on edge each truss oks to be a ed by othe	e, spaced at s with 3-10d attached to w er means.	alls						
BOT CHORD	6-0-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 or												
REACTIONS	(size) 11=12-2-(14=12-2-(17=12-2-(20=12-2-(Max Grav 11=44 (LC 13=97 (LC (LC 1), 16 1), 18=99 20=39 (J	0, 12=12-2-0, 13=12 0, 15=12-2-0, 16=12 1, 18=12-2-0, 19=12 1, 12=103 (LC 1), 1, 14=98 (LC 1), 2, 1, 14=98 (LC 1), 17=97 (LC 1), 19=93 (LC 1)	-2-0, -2-0, -2-0, 15=98 LC 1),											
FORCES	(lb) - Maximum Com	pression/Maximum												
TOP CHORD	1-20=-35/0, 10-11=- 3-4=-8/0, 4-5=-8/0, 5 7-8=-8/0, 8-9=-8/0, 9	40/0, 1-2=-8/0, 2-3= 5-6=-8/0, 6-7=-8/0, 9-10=-8/0	-8/0,									mm	1111.	
BOT CHORD	19-20=0/8, 18-19=0/ 15-16=0/8, 14-15=0/ 11-12=0/8	/8, 17-18=0/8, 16-17 /8, 13-14=0/8, 12-13	′=0/8, ≔0/8,								المبر	ORCESS	ROLI	
WEBS	2-19=-86/0, 3-18=-9 5-16=-89/0, 6-15=-8 8-13=-88/0, 9-12=-9	0/0, 4-17=-89/0, 9/0, 7-14=-89/0, 3/0								4		270	A B	1
NOTES												SEA		-
 All plates indicated. Gable req Truss to b 	are 1.5x3 () MT20 un uires continuous bottor e fully sheathed from c	lless otherwise m chord bearing. one face or securely								THUN.		0363	22	unun,
braced ag	ainst lateral movement	t (i.e. diagonal web)									3.5	NGIN	FEN.X.	5

4) Gable studs spaced at 1-4-0 oc.



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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor		
	2F18	Floor	2	1	Job Reference (optional)	173911590	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:22 ID:v5HMl0bOgjeZo5luGaS94ezC0nW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:25.1

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

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.07	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.10	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%F, 12%E

LUMBER

LOWIDER		
TOP CHORD	2x4 SP No.2(flat)	
BOT CHORD	2x4 SP No.2(flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	
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) 8=0-3-8, 14=0-3-8	
	Max Grav 8=649 (LC 1), 14=649 (LC 1)	
FORCES	(lb) - Maximum Compression/Maximum	
	Tension	
TOP CHORD	1-14=-34/0, 7-8=-644/0, 1-2=-2/0,	
	2-3=-1254/0, 3-4=-1842/0, 4-5=-1842/0,	
	5-6=-1616/0, 6-7=-721/0	
BOT CHORD	13-14=0/798, 12-13=0/1675, 11-12=0/1870,	
	10-11=0/1870, 9-10=0/1346, 8-9=0/39	
WEBS	2-14=-999/0, 2-13=0/594, 3-13=-548/0,	
	4-12=-92/0, 5-11=0/8, 3-12=0/213,	
	5-12=-34/0, 5-10=-325/0, 6-10=0/351,	
	6-9=-813/0, 7-9=0/872	
NOTES		
1) Recomme	nd 2x6 strongbacks, on edge, spaced at	
10-00-00	oc and fastened to each truss with 3-10d	
(

10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTP11 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.sbcaccomponents.com)

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-El.4-Floor	
	2F19	Floor	1	1	Job Reference (optional)	173911591

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:23 ID:aBOsDVcCoX85oWsxw4xnDMzC0jc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



1-0-0 14-11-0

Scale = 1:36.8

Plate Offsets (X, Y): [15:0-1-8,Edge]

	(, :): [:e:e : e;⊇age	.1									-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.20	13-14	>878	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.27	13-14	>643	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%F, 12%E
LUMBER TOP CHORD	2x4 SP No.2(flat)											
WEBS OTHERS	2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)											
DDACINC												

Structural wood sheathing directly applied or
5-8-3 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc
bracing.
(size) 11=0-3-3, 17=0-3-8
Max Grav 11=807 (LC 1), 17=800 (LC 1)
(lb) - Maximum Compression/Maximum
Tension
1-17=-34/0, 10-11=-39/0, 1-2=-2/0,
2-3=-1615/0, 3-4=-2729/0, 4-5=-2729/0,
5-6=-2729/0, 6-7=-2603/0, 7-8=-2603/0,
8-9=-1630/0, 9-10=0/0
16-17=0/995, 15-16=0/2240, 14-15=0/2729,
13-14=0/2780, 12-13=0/2241, 11-12=0/995
4-15=-333/0, 5-14=-192/94, 2-17=-1246/0,
2-16=0/807, 3-16=-814/0, 3-15=0/785,
9-11=-1249/0, 8-12=-795/0, 8-13=0/462,
9-12=0/826, 7-13=-83/0, 6-13=-299/0,

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

3) CAUTION, Do not erect truss backwards.

6-14=-282/299

LOAD CASE(S) Standard



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 **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss Truss Type		Qty	Ply	Arlington Rev.1-EI.4-Floor		
	2FGE5A	Floor Supported Gable	1	1	Job Reference (optional)	173911592	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:23 ID:qcfQvT4t8Cawk9IK6A2IIbzBeT5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

818 Soundside Road

Edenton, NC 27932



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

Job	Truss Truss Type		Qty Ply		Arlington Rev.1-EI.4-Floor		
	2FGE6	Floor Supported Gable	1	1	Job Reference (optional)	173911593	

1.5x3 u

3

8

1.5x3 II

4-6-4

1.5x3 u 3x3 II

2

1

3x3 u

1.5x3 u

1-2-0

Structural, LLC, Thurmont, MD - 21788.

Run: 25.10 S Apr 28 2025 Print: 25.1.0 S Apr 28 2025 MiTek Industries, Inc. Tue Jun 03 17:03:31 ID:EITqLKf5JkhwbU6IJjjFAvzBeFR-Mr2?eUnRMy?Sr2za841PdtWJasHGAY3QNSuygizA5QA

1-2-0

3x3 II

5

3x3 II

1.5x3 🛚

1.5x3 u

4



Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 23 lb	FT = 20%F, 12%E	
LUMBER													
TOP CHORD	2x4 SP No.2(flat)												
BOT CHORD	2x4 SP No.2(flat)	X4 SP No 2(flat)											
WEBS	2x4 SP No.3(flat)	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)												
BRACING													
TOP CHORD	Structural wood shea	athing directly applie	d or										
	4-6-4 oc purlins, exc	cept end verticals.											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	;										
	bracing.												
REACTIONS	All bearings 4-6-4.												
(lb) -	Max Grav All reaction	ns 250 (lb) or less at	t joint										
	(s) 6, 7, 8,	9, 10											
FORCES	(lb) - Max. Comp./Ma	ax. Ten All forces 2	250										
	(lb) or less except wh	nen shown.											

NOTES

- 1) Gable requires continuous bottom chord bearing.
- 2) Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.

Recommend 2x6 strongbacks, on edge, spaced at 4) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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





BRACING	
TOP CHORD	Structural wood sheathing directly applied o
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.

REACTIONS (size) 8=8-3-6, 9=8-3-6, 10=8-3-6, 11=8-3-6, 11=8-3-6, 11=8-3-6, 11=8-3-6, 14=8-3-6 Max Grav 8=45 (LC 1), 9=91 (LC 1), 10=101 (LC 1), 11=102 (LC 1), 11=100 (LC 1), 11=100 (LC 1), 13=111 (LC 1), 14=53 (LC 1) FORCES (lb) - Maximum Compression/Maximum

 Torrestor
 Tension

 TOP CHORD
 1-14=-48/0, 7-8=-39/0, 1-2=-10/0, 2-3=-10/0, 3-4=-10/0, 4-5=-10/0, 5-6=-10/0, 6-7=-10/0

 BOT CHORD
 13-14=0/10, 12-13=0/10, 11-12=0/10, 10-11=0/10, 9-10=0/10, 8-9=0/10

 WEBS
 6-9=-85/0, 5-10=-91/0, 4-11=-94/0,

3-12=-91/0, 2-13=-100/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 Gable studs spaced at 1-4-0 oc.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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



Edenton, NC 27932

Job	Truss	Truss Type	Qty Ply		Arlington Rev.1-EI.4-Floor		
	2F20	Floor	9	1	Job Reference (optional)	173911596	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:23 ID:KRILSBpxQRucAGwB5hgD7yzBeW1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x3 =



Scale = 1:19.3												
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.20	Vert(LL)	-0.01	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 46 lb	FT = 20%F, 12%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											

BRACING

TOP CHORD	Structura	wood sheathing directly applied or								
	6-0-0 oc j	ourlins, except end verticals.								
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc								
	bracing.									
REACTIONS	(size)	7=0-3-8, 10= Mechanical								
	Max Grav	7=311 (LC 1), 10=315 (LC 1)								
FORCES	RCES (Ib) - Maximum Compression/Maximum									

	Tension
TOP CHORD	1-10=-24/0, 6-7=-33/0, 1-2=0/0, 2-3=-523/0
	3-4=-595/0, 4-5=-595/0, 5-6=0/0
BOT CHORD	9-10=0/373, 8-9=0/652, 7-8=0/354
WEBS	2-10=-469/0, 2-9=0/195, 3-9=-167/0,

	3-8=-72/0,	4-8=-81/0,	5-7=-444/0,	5-8=0/282
NOTES				

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

- Load case(s) 1 has/have been modified. Building 2) designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 3) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, 1) Plate Increase=1.00
 - Uniform Loads (lb/ft) Vert: 7-10=-7, 1-2=-67, 2-4=-72, 4-6=-67



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

Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor			
	1F1C	Floor	3	1	Job Reference (optional)	173911601		

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:18 ID:a1wReP83ieEdtPFfbyYKhkzBeMZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40

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

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 NO IRC202	21/TPI2014	CSI TC BC WB Matrix-S	0.84 0.96 0.42	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.25 -0.37 0.06	(loc) 17 16-17 13	l/defl >826 >559 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 85 lb	GRIP 187/143 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2(flat) *E: (flat) 2x4 SP No.2(flat) *E: (flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood choo	xcept* 8-12:2x4 SP s	5 SS 2 SS 6 L 1) Recommend 10-00-00 oc (0.131" X 3") at their outer) CAUTION, D OAD CASE(S)) Dead + Floo Plate Increa	2x6 strongbacks, and fastened to ea nails. Strongback ends or restrained o not erect truss b Standard or Live (balanced): ise=1.00 ads (lb/ft)	on edge ich truss is to be I by othe ackward Lumbe	e, spaced at s with 3-10d attached to w er means. ds. r Increase=1.	valls .00,					
BOT CHORD	6-0-0 oc purlins, exe Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 oc		Vert: 13-2 Concentrate Vert: 23=	21=-7, 1-12=-67 ed Loads (lb) -880								
REACTIONS	(size) 13=0-4-8, Max Grav 13=1479 (21=0-3-8 (LC 1), 21=652 (LC	1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum	,										
TOP CHORD	1-21=-24/0, 12-13=-4 2-3=-1645/0, 3-4=-2 5-6=-3309/0, 6-7=-3 9-10=-2984/0, 10-11	498/0, 1-2=-2/0, 750/0, 4-5=-2750/0, 309/0, 7-9=-2984/0, =-2055/0, 11-12=0/0	0										
BOT CHORD	20-21=0/974, 19-20= 16-17=0/3309, 15-16 13-14=0/1526	=0/2290, 17-19=0/30 6=0/3309, 14-15=0/2	-)88, 2559,									mm	U111
WEBS	6-17=-194/0, 7-16=- 2-20=0/820, 3-20=-7 4-19=-66/0, 5-19=-44 11-13=-1809/0, 11-1 10-14=-616/0, 9-15=	77/77, 2-21=-1152/0 '87/0, 3-19=0/553, 07/0, 5-17=0/517, 4=0/645, 10-15=0/5 167/4, 7-15=-570/4), 11, 40							4	in the	OP FESS	ROLIN
NOTES		,	-							-			
 Unbalance this design All plates The Fabrie Load case 	ed floor live loads have n. are MT20 plates unles: cation Tolerance at joir e(s) 1 has/have been m	been considered fo s otherwise indicated nt 18 = 12% nodified. Building	ır d.							THE PARTY OF		SEA 0363	L 22

designer must review loads to verify that they are correct for the intended use of this truss.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

GILBER GILB

June 3,2025

Job	Truss	Truss Type	Qty Ply		Arlington Rev.1-El.4-Floor		
	1F1A	Floor	3	1	Job Reference (optional)	173911602	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:18 Page: 1 ID:a1wReP83ieEdtPFfbyYKhkzBeMZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







1-0-0 17-2-0

. ...

Scale = 1:40														
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 NO IRC2021/T	TPI2014	CSI TC BC WB Matrix-S	0.78 0.52 0.45	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.29 -0.41 0.06	(loc) 18 17-18 13	l/defl >711 >497 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 M18AHS Weight: 86 lb	GRIP 187/143 244/190 186/179 FT = 20%F,	12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 5-11-7 oc purlins, ex Rigid ceiling directly bracing. (size) 13=0-2-2,	athing directly applie xcept end verticals. applied or 10-0-0 oc 22=0-3-8	5) [(6) (LOA d or 1)	Recommend 10-00-00 oc : (0.131" X 3") at their outer CAUTION, D D CASE(S) Dead + Floo Plate Increa Uniform Loc Vert: 13-2 Concentrate	2x6 strongbacks, and fastened to ea nails. Strongback ends or restrained o not erect truss bi Standard or Live (balanced): se=1.00 ads (lb/ft) 22=-8, 1-12=-80 dd Loads (lb) -068	on edge ch truss s to be by othe ackward Lumber	e, spaced at s with 3-10d attached to w er means. ds. r Increase=1.	valls 00,						
FORCES	Max Grav 13=1692 ((LC 1), 22=760 (LC 1)	ven. 24=	-908									
TOP CHORD BOT CHORD WEBS	(ib) - Maximum Com Tension 1-22=-29/0, 12-13=-7 2-3=-1907/0, 3-4=-3 5-6=-3743/0, 6-7=-3 8-10=-3299/0, 10-11 21-22=0/1132, 20-21 17-18=0/3743, 16-17 14-15=0/1596, 13-14 6-18=-215/0, 7-17=-5 2-21=0/945, 3-21=-9 4-20=-71/0, 5-20=-4 11-13=-1854/0, 11-1	pression/waximum 737/0, 1-2=-2/0, 167/0, 4-5=-3167/0, 743/0, 7-8=-3743/0, =-2334/0, 11-12=0/0 1=0/2651, 18-20=0/3 7=0/3662, 15-16=0/2 4=0/1596 341/105, 2-22=-134C 09/0, 3-20=0/620, 49/0, 5-18=-40/541, 4=0/7, 11-15=0/853.	540, 922, //0,											
	10-15=-722/0, 10-16	=0/461, 8-16=-472/0	,								Nº.	ATHON	TOL	
NOTES	8-1/=-19//504											OFES	Di Va	10
 Unbalance this design All plates a Provide me bearing pla Load case designer m for the inte 	ed floor live loads have are MT20 plates unless echanical connection (ate at joint(s) 13. (s) 1 has/have been m hust review loads to ve anded use of this truss.	been considered for s otherwise indicated by others) of truss to nodified. Building rify that they are cor	I. rect							Contraction of the second s		SEA 0363	L 22 EEPER	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



G minin June 3,2025

Job	Truss	Truss Type	Qty	Ply		
	1F1D	Floor	1	1	Job Reference (optional)	173911603

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:18 ID:a1wReP83ieEdtPFfbyYKhkzBeMZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



1-0-0 17-4-6

Scale = 1:39.2

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

Loading	(psf)	Spacing	1-7-3		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		тс	0.73	Vert(LL)	-0.29	17	>714	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00		BC	0.55	Vert(CT)	-0.41	16-17	>503	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO		WB	0.45	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/	TPI2014	Matrix-S							Weight: 85 lb	FT = 20%F, 12%E
			C)			1	1-						
	0 4 0 D 0 0 // /) *F		5)	CAUTION, D	o not erect truss ba	аскwаго	lS.						
TOP CHORD	2x4 SP SS(flat) *Exc	cept* 8-1:2x4 SP No.	2 LOA	AD CASE(S)	Standard								
			1)	Dead + Floo	or Live (balanced):	Lumbe	r Increase=1.0	00,					
BOT CHORD	2x4 SP SS(flat)			Plate Increa	se=1.00								
WEBS	2x4 SP No.3(flat)			Uniform Loa	ads (Ib/ft)								
OTHERS	2x4 SP No.3(flat)			Vert: 13-2	21=-8, 1-12=-80								
BRACING				Concentrate	ed Loads (lb)								
TOP CHORD	Structural wood she	athing directly applie	d or	Vert: 23=	-528								
	5-10-12 oc purlins,	except end verticals.											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	;										
	bracing.												
REACTIONS	(size) 13=0-4-8	, 21=0-3-8											
	Max Grav 13=1264	(LC 1), 21=765 (LC 1	1)										
FORCES	(lb) - Maximum Corr	pression/Maximum											
	Tension												
TOP CHORD	1-21=-29/0, 12-13=-	315/0, 1-2=-2/0,											
	2-3=-1923/0, 3-4=-3	198/0, 4-5=-3198/0,											
	5-6=-3799/0, 6-7=-3	799/0, 7-9=-3342/0,											
	9-10=-3342/0, 10-11	1=-2169/0, 11-12=0/0)										
BOT CHORD	20-21=0/1141, 19-2	0=0/2675, 17-19=0/3	581,										
	16-17=0/3799, 15-1	6=0/3799, 14-15=0/2	.833,										
	13-14=0/1474		-										111.
WEBS	6-17=-213/0, 7-16=-	79/106, 2-21=-1350/	0,									IN CA	DUL
	2-20=0/955, 3-20=-9	917/0, 3-19=0/629,									1	THUA	MON'IL
	4-19=-72/0, 5-19=-4	61/0, 5-17 = -48/566,	40								1	n	A. C.
	11-13=-1/4//0, 10-	10=0/011, 11-14=0/84	49,							/	52		THAT
	10-14=-811/0, 9-15=	=-176/29,7-15=-757/	0							4		QZ / /	1. 4.
NOTES											19		1 1 1 E
1) Unbalanc	ed floor live loads have	e been considered fo	r							=	- 1	SEA	
this desig	n.									Ξ.		0000	
2) All plates	are M120 plates unles	s otherwise indicated	1.									0363	22 : 3
 Load case 	e(s) 1 has/have been n	nodified. Building								-	0		4 5
designer i	must review loads to ve	erify that they are cor	rect							-	-	·	- 1 - S
for the inte	ended use of this truss										10	N. SNOW	FRICK
4) Kecomme	enu ∠xb strongbacks, c	in euge, spaced at									1	SUCIN	1 25 15
10-00-00	oc and fastened to ead	ri truss with 3-10d									1	CAR	11 BEIN
(U.I.31" X	o jindiis. SurunyDacks	by other means	3115									1, 7. 6	L'IIII
at their ou	iter enus or restrained	by other means.											THE

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



June 3,2025

Job	Truss	Truss Type	Qty Ply Arlington Rev.1-El.4-Floor		Arlington Rev.1-EI.4-Floor	
	1F4A	Floor	1	1	Job Reference (optional)	173911604

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:19 Page: 1 ID:q6b_NYH1ZW4H9rRj5iEMVZzBeL5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1.5x3 = 3x6 =



Scale = 1:25.3												
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.01	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 40 lb	FT = 20%F, 12%E
	2x4 SP No 2/flot)											

TOP CHORD	2X4 3F NU.2(IIal)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
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.
DELOTIONO	
REACTIONS	(SIZE) /=0-4-8, 10=0-3-8
REACTIONS	(size) 7=0-4-8, 10=0-3-8 Max Grav 7=327 (LC 1), 10=323 (LC 1)
FORCES	(size) 7=0-4-8, 10=0-3-8 Max Grav 7=327 (LC 1), 10=323 (LC 1) (Ib) - Maximum Compression/Maximum
FORCES	(size) /=U-4-8, 10=U-3-8 Max Grav 7=327 (LC 1), 10=323 (LC 1) (Ib) - Maximum Compression/Maximum Tension
FORCES TOP CHORD	(size) 7=0-4-8, 10=0-3-8 Max Grav 7=327 (LC 1), 10=323 (LC 1) (lb) - Maximum Compression/Maximum Tension 1-10=-28/0, 6-7=-25/0, 1-2=-2/0, 2-3=-603/0,
FORCES	(size) 7=0-4-8, 10=0-3-8 Max Grav 7=327 (LC 1), 10=323 (LC 1) (lb) - Maximum Compression/Maximum Tension 1-10=-28/0, 6-7=-25/0, 1-2=-2/0, 2-3=-603/0, 3-4=-590/0, 4-5=-590/0, 5-6=0/0
FORCES TOP CHORD BOT CHORD	(size) 7=0-4-8, 10=0-3-8 Max Grav 7=327 (LC 1), 10=323 (LC 1) (lb) - Maximum Compression/Maximum Tension 1-10=-28/0, 6-7=-25/0, 1-2=-2/0, 2-3=-603/0, 3-4=-590/0, 4-5=-590/0, 5-6=0/0 9-10=0/451, 8-9=0/724, 7-8=0/311
FORCES TOP CHORD BOT CHORD WEBS	(size) 7=0-4-8, 10=0-3-8 Max Grav 7=327 (LC 1), 10=323 (LC 1) (lb) - Maximum Compression/Maximum Tension 1-10=-28/0, 6-7=-25/0, 1-2=-2/0, 2-3=-603/0, 3-4=-590/0, 4-5=-590/0, 5-6=0/0 9-10=0/451, 8-9=0/724, 7-8=0/311 2-9=0/186, 2-10=-532/0, 3-9=-147/0,

NOTES

- 1) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d 2) (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, 1) Plate Increase=1.00 Uniform Loads (lb/ft)
 - Vert: 7-10=-8, 1-6=-80
 - Concentrated Loads (lb)
 - Vert: 12=-1



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



Job	Truss	Truss Type Qty		Ply	Arlington Rev.1-EI.4-Floor	170044005
	1F5A	Floor	1	1	Job Reference (optional)	11605

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:19

Page: 1

Structural, LLC, Thurmont, MD - 21788,



Scale = 1:38.4 Plate Offsets (X, Y): [13:0-1-8,Edge]

Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 NO	CSI TC BC WB	0.47 0.58 0.39	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.20 0.03	(loc) 12 12 9	l/defl >999 >790 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S			-				Weight: 66 lb	FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP SS(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 9=0-4-8	athing directly applie cept end verticals. applied or 10-0-0 or 15=0-3-8	Vert: 9- Concentra Vert: 17 ed or	15=-8, 1-8=-80 ted Loads (lb) =-188								
	Max Grav 9=682 (L0	C 1), 15=682 (LC 1)										
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	1-15=-27/0, 8-9=-35 3-4=-2847/0, 4-5=-2 6-7=-1662/0, 7-8=0/	/0, 1-2=-2/0, 2-3=-16 847/0, 5-6=-2647/0,	662/0,									
BOT CHORD	14-15=0/1013, 13-14	0 4=0/2306, 12-13=0/2 1_0/2306, 0, 10_0/10	2847,									
WEBS	4-13=-332/0, 5-12=- 2-14=0/792, 3-14=-7 7-9=-1187/0, 7-10=0 6-11=0/515, 5-11=-4	1=0/2296, 9-10=0/10 158/36, 2-15=-1199/ 786/0, 3-13=0/812, 0/806, 6-10=-773/0, 150/0	/0,								mmm	uun.
NOTES											WTH CA	Roilin
1) Unbalance	ed floor live loads have	e been considered fo	r							N	OTESS	a. Mile
 this design 2) Load case designer m for the interview 	n. (s) 1 has/have been m nust review loads to ve anded use of this truss	nodified. Building erify that they are co	rrect							U	ig for a	121
3) Recomme 10-00-00 c (0.131" X 3 at their out	nd 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks ter ends or restrained	h edge, spaced at truss with 3-10d to be attached to w by other means.	alls						THE PARTY		0363	L 22
4) CAUTION,	, Do not erect truss ba	ickwards.								- 1	NOIN	EERIAS
1) Dead + F Plate Incr Uniform L	S) Standard Floor Live (balanced): I rease=1.00 Loads (lb/ft)	Lumber Increase=1.0	00,								A. G. Jur	11.BEF.1111 ne 3,2025
WARN Design v a truss s	IING - Verify design paramete valid for use only with MiTek@ vstem, Before use, the build	ers and READ NOTES ON ® connectors. This design ling designer must verify th	THIS AND INCLUDED MITEK I is based only upon parameter he applicability of design param	REFERENCE PAGE MII s shown, and is for an i eters and properly inco	-7473 rev. 1 ndividual bu	/2/2023 BEFORE	USE. It, not overall					

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss Truss Type		Qty Ply		Arlington Rev.1-El.4-Floor				
	1F1B	Floor	10	1	Job Reference (optional)	173911606			

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:18 ID:a1wReP83ieEdtPFfbyYKhkzBeMZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



10-0-0



1-0-0 17-2-0

Scale - 1.39.2

ocale -	- 1.55.2											-		
Loadin TCLL TCDL BCLL BCDI	ng	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 NO	CSI TC BC WB Matrix-S	0.78 0.57 0.43	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.28 -0.39 0.05	(loc) 17 17-19 13	l/defl >713 >517 n/a	L/d 480 360 n/a	PLATES MT20HS MT20	GRIP 187/143 244/190	F
BCDL		5.0	Code	1KG2021/1112014	Matrix-3							Weight. 64 lb	FT = 2076F, T276	L
LUMBE TOP CI BOT CI WEBS OTHEF	er Hord Hord RS	2x4 SP No.2(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)												
BRACI TOP CI	ing Hord	Structural wood she 5-10-10 oc purlins,	athing directly applie except end verticals	ed or										
BOT CI	HORD	Rigid ceiling directly bracing.	applied or 10-0-0 of	C										
REACT	TIONS	(size) 13=0-2-2, Max Grav 13=744 (L	21=0-3-8 _C 1), 21=739 (LC 1)										
FORCE	ES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CI	HORD	1-21=-29/0, 12-13=- 2-3=-1846/0, 3-4=-3 5-6=-3540/0, 6-7=-3 9-10=-3040/0, 10-11	32/0, 1-2=-2/0, 049/0, 4-5=-3049/0, 540/0, 7-9=-3040/0, =-1848/0, 11-12=0/0	0										
BOT CI	HORD	20-21=0/1100, 19-20 16-17=0/3540, 15-10 13-14=0/1103	0=0/2563, 17-19=0/3 6=0/3540, 14-15=0/2	3390, 2558,										
WEBS		6-17=-188/0, 7-16=- 2-20=0/910, 3-20=-8 4-19=-68/0, 5-19=-4 11-13=-1307/0, 11-1 10-15=0/579, 9-15=-	61/130, 2-21=-1302, 376/0, 3-19=0/584, 09/0, 5-17=-113/486 14=0/910, 10-14=-86 -131/60, 7-15=-800/	/0, 5, 57/0, 0								TH CA	ROUT	
NOTES	S	10 10 0,010,0 10	101,000,1 10 000,0	•							3	On EES	10 10 10	_
1) Unl this	balance s design	d floor live loads have	e been considered fo	or						2		P	And I	7
2) All 3) Pro bea	plates a ovide me aring pla	are MT20 plates unles echanical connection (ate at joint(s) 13.	s otherwise indicate (by others) of truss to	d. o						1111		SEA 0363	L 22	
4) Re 10-	-00-00 o	nd 2x6 strongbacks, o oc and fastened to eac and fastened to eac	n edge, spaced at th truss with 3-10d	alls						THE.		0303	~~	

(0.131" X 3") nails. Strongbac e attached to walls

at their outer ends or restrained by other means. 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

G 11111111 June 3,2025

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 with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty Ply		Arlington Rev.1-El.4-Floor					
	1F5B	Floor	2	1	Job Reference (optional)	173911607				

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:19 Page: 1 ID:BXL0HdwrOcQOAOj9v6CZqSzBeLY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







Scale = 1:38.4

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

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 NO IRC2021	/TPI2014	CSI TC BC WB Matrix-S	0.66 0.64 0.45	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.22 0.04	(loc) 12 12 9	l/defl >999 >734 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 65 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS	2x4 SP SS(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exa Rigid ceiling directly bracing. (size) 9=0-2-2, 1 Max Grav 9=733 (LC (lb) - Maximum Com Tension 1-15=-26/0, 8-9=-33, 3-4=-3171/0, 4-5=-3 6-7=-1813/0, 7-8=0/(14-15=0/1093, 13-14 1-12=0/3171, 10-11 4-13=-399/0, 5-12=- 2-14=0/875, 3-14=-8 7-9=-1286/0, 7-10=0	athing directly applie cept end verticals. applied or 10-0-0 or 15=0-3-8 C 1), 15=733 (LC 1) pression/Maximum /0, 1-2=-2/0, 2-3=-18 171/0, 5-6=-2963/0, 0 4=0/2524, 12-13=0/3 1=0/2513, 9-10=0/11 193/22, 2-15=-1294, 71/0, 3-13=0/940, 1/839, 6-10=-855/0, 193/0	1) ed or c 310/0, 3171, 385 /0,	Dead + Flor Plate Increa Uniform Loa Vert: 9-1 Concentrate Vert: 17=	or Live (balanced): ise=1.00 ads (lb/ft) 5=-8, 1-8=-80 ad Loads (lb) -307	Lumber	Increase=1.	00,					
NOTES 1) Unbalance this design 2) Provide m bearing pla 3) Load case designer m for the inte 4) Recommen 10-00-00 (0.131" X 3 at their out 5) CAUTION LOAD CASE(S	ed floor live loads have be chanical connection (ate at joint(s) 9. (s) 1 has/have been m hust review loads to ve inded use of this truss. Ind 2x6 strongbacks, o be and fastened to eac ard fastened to eac be and fastened to eac ard fastened to eac ard fastened to eac be and fastened to eac ard fastened to eac ard fastened to eac ard fastened to eac ard fastened to eac be and fastened to eac ard fastened to eac ard fastened to eac be and fastened to eac ard fastened to eac ard fastened to eac be and fastened to eac ard faste	been considered for by others) of truss to odified. Building wify that they are con- n edge, spaced at h truss with 3-10d to be attached to w oy other means. ckwards.	or D Trrect alls							Withhan		SEA 0363	L 22 L L B E E R R R R R R R R R R R R R R R R R

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 **ANSUTP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-EI.4-Floor				
	1F9	Floor	1	1	Job Reference (optional)	173911608			

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:19 ID:QTEQ3?YuVcink_hjjjqF3gzASh5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



1.5x3 =



Scale = 1:25.3

Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 YES	CSI TC BC WB	0.07 0.07 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a -0.01 0.00	(loc) - 4-5 4	l/defl n/a >999 n/a	L/d 999 360 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P		()		-			Weight: 16 lb	FT = 20%F, 12%E
LUMBER TOP CHO BOT CHO WEBS	RD 2x4 SP No.2(flat) RD 2x4 SP No.2(flat) 2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING TOP CHO	ACING ² CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins, except end verticals.											
ВОТ СНО	RD Rigid ceiling directly bracing.	applied or 10-0-0 o	с									
REACTIO	NS (size) 4=0-2-2, 9 Max Grav 4=113 (L0	5=0-3-3 C 1), 5=108 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
ТОР СНО ВОТ СНО	RD 1-5=-41/0, 3-4=-35/0, 1-2=-3/0, 2-3=0/0 RD 4-5=0/91											
WEBS	2-5=-105/0, 2-4=-113/0											
NOTES	IOTES											
 Provio bearin 	e mechanical connection g plate at joint(s) 4.	(by others) of truss t	0									
2) Recor	Recommend 2x6 strongbacks, on edge, spaced at											

10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls

at their outer ends or restrained by other means.3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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 **ANSUTP11 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.sbcaccomponents.com)



Job	Truss	Truss Type	Qty Ply		Arlington Rev.1-El.4-Floor				
	2F16	Floor	3	1	Job Reference (optional)	173911609			

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:22 ID:?ul?oKhveUsrTyFia68KDXzC0pz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





1-0-0 15-10-0

Scale - 1:35.9

00	uic = 1.00.0												
Loa	ading	(psf)	Spacing	2-0-0	CSI	0.00	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TC		40.0	Plate Grip DOL	1.00		0.68	Vert(LL)	-0.22	15-16	>850	480	WI120	244/190
		10.0	Lumber DOL	1.00	BC	0.65		-0.30	15-16	>616	360		
BC		0.0	Rep Stress Incr		VVB Motrix S	0.43	Horz(CT)	0.04	11	n/a	n/a	Woight: 91 lb	ET - 20% E 12% E
<u>BC</u>	DL	5.0	Coue	IKC2021/1F12014	Wattix-3							Weight. 81 lb	FT = 20 /0F, TZ /0E
LU	MBER												
ТО	P CHORD	2x4 SP No.2(flat)											
BO	T CHORD	2x4 SP SS(flat)											
WE	BS	2x4 SP No.3(flat)											
BR	ACING												
ТО	P CHORD	Structural wood sheathing directly applied or											
		6-0-0 oc purlins, ex	cept end verticals.										
BO	T CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
		bracing.											
RE.	ACTIONS	TIONS (size) 11=0-3-8, 18= Mechanical											
		Max Grav 11=857 (LC 1), 18=857 (LC 1)											
FO	RCES	(Ib) - Maximum Compression/Maximum											
то			10/0 1 0 0/0										
10	PCHORD	1-18=-39/0, 10-11=-	40/0, 1-2=0/0,										
		2-3=-1757/0, 3-4=-2 5-63124/0 6-73	052/0, 4-5=-2052/0, 124/0 7-82828/0	,									
		8-9=-1759/0 9-10=0	124/0, 7-0=-2020/0,)/0	,									
BO	T CHORD	17-18=0/1062, 16-17	7=0/2427.15-16=0/	3102.									
		14-15=0/3124, 13-14	4=0/3124, 12-13=0/	2411.									
		11-12=0/1067	,	,									
WE	BS	6-15=-188/1, 7-14=-	75/334, 2-18=-1332	2/0,									
		2-17=0/905, 3-17=-8	372/0, 3-16=0/542,										
		9-11=-1339/0, 9-12=	=0/901, 8-12=-848/0),									
		8-13=0/616, 7-13=-7	720/0, 4-16=-83/0,										
		5-16=-351/0, 5-15=-	202/377									WAH CA	Roill
NO	TES										S	R	D LIN'I
1)	Unbalanced floor live loads have been considered for												
2)	this design	s design.											
2) 3)	Recommo	and 2x6 strongbacks	n edge snaced at							-	e p	: 4	1 : 5
3)	10_00_00	oc and fastened to eac	trues with 3-10d							-		SFA	1 1 2
	(0.131" X	3") nails. Strongbacks	to be attached to w	alls						- 8		0202	
	at their ou	ir outer ends or restrained by other means.											

LOAD CASE(S) Standard



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 <u>ANSI/TPI Quility Criteria and DSB-22</u> available from Truss Plate Institute (www.tpinst.org) and <u>Before Building Component Scient Information</u> available from the Structural Building Component description. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job		Truss		Truss Type)		Qt	у	Ply	Arlingtor	n Rev.1-	EI.4-Floo	or	170011010
		2F17		Floor			1		1	Job Ref	erence (optional)		173911610
Structural, LLC, 7	Thurmont, MD -	21788,				Run: 25.20 S N	/ay 13 202	5 Print: 2	25.2.0 S May	13 2025 N	/iTek Indu	stries, Inc	. Mon Jun 02 18:25	22 Page: 1
						iD.aj9P WZIIIIH	13 TOIWOP	INTIIVIINGZ	CURI-RIC (P	5D7UHQ3IN	зугчпсои	JULIADO	IN WIGDOI/ J42JC ?I	
					1-1-0	2-0-0	-		-	1-7-12	4			
	1-3-	0			1.	5x3 II	1-4-4	1	I	3x6 FP	, ,			
	ЗхЗ н	22	3x3 =	4.5-0	3x3 =	1	I.5x3 ∎	40	3x6	=	15.0	3x3 =	2.	зх3 ш
	1	3x3 = 2	3	1.5x3 I 4	5	6	7	4x6 = 8	9	10	1.5x3 II 11	12	3x 13	3 = 14
ọ		Jek,	12	0		0	•				0		Le le	
1-2														15
			23	22 21	2	:0	19		X		17		16	X
	3x6 =		3x3 =	3x6 =	3:	x3 =	4x4 =		18 3×6 –		3x6 =		3x3 =	3x6 =
				3x6 FF	,				5×0 =					
						9-10-0								
						8-10-0								
			<u> </u>					<u>12-8-4</u> 2-10-4				<u>19-1</u> 7-1-	<u>0-0</u> ·12	
						1-0-0								
						1-0-0								
						19	-10-0							
Scale = 1:35.9 Plate Offsets ()	X, Y): [19:0-1	-8,Edge	1											
		(nsf)	Spacing	2-0-0		CSI	-	DEEL		in (loc		i I/d		GRIP
TCLL		40.0	Plate Grip DOL	1.00		TC	0.63	Vert(L	.L) -0.:	21 20-2	2 >710	5 480	MT20	244/190
BCLL		10.0 0.0	Rep Stress Incr	1.00 YES		WB	0.69 0.57	Horz(CT) -0. CT) 0.	29 20-2 03 1	2 >523 5 n/a	a n/a		
BCDL		5.0	Code	IRC2021/T	PI2014	Matrix-S	-						Weight: 103 lb	FT = 20%F, 12%E
LUMBER TOP CHORD	2x4 SP No.2	(flat) *E	xcept* 10-1:2x4 SP S	3) R S 1	ecommend 0-00-00 oc a	2x6 strongbacks and fastened to e	s, on edge each truss	e, space s with 3	ed at -10d					
BOT CHORD	(flat) 2x4 SP No.2	(flat) *E	xcept* 21-15:2x4 SP	((SS a	0.131" X 3") t their outer	nails. Strongba	cks to be ed by othe	attache er mear	d to walls ns.					
WEBS	(flat) 2x4 SP No 3	(flat)		4) C	AUTION, D	o not erect truss Standard	backware	ds.						
BRACING					0402(0)	Otandard								
TOP CHORD	Structural w 6-0-0 oc pur	ood shea lins, exa	athing directly applied cept end verticals.	d or										
BOT CHORD	Rigid ceiling bracing, Ex	directly cept:	applied or 10-0-0 oc											
REACTIONS	6-0-0 oc bra	cing: 17	-18. 18-0-3-8 24-											
REACTIONS	(3126) 13 M	echanic	al	、										
	Max Grav 1: 24	5=385 (L 4=684 (L	.C 7), 18=1123 (LC 1 .C 3)),										
FORCES	(lb) - Maxim Tension	um Com	pression/Maximum											
TOP CHORD	1-24=-39/0, 2-3=-1321/0	14-15=-3 3-4=-2	37/0, 1-2=0/0, 003/0_4-5=-2003/0											
	5-6=-1674/0	, 6-7=-1	674/0, 7-8=-1674/0,											
	6-9=-3/367, 12-13=-574/	9-11=-5 0, 13-14	=0/0											11111
BOT CHORD	23-24=0/833 19-20=0/167	3, 22-23₌ ′4, 18-1§	=0/1792, 20-22=0/20)=0/739, 17-18=-367	27, /3,								5	"ATH UA	ROUT
WEBS	16-17=0/674 6-20=0/200,	l, 15-16= 7-19=-5	=0/443 20/0, 9-18=-555/0,									S	O. FESS	- Alan
	2-24=-1045/	0, 3-22=	0/270, 8-18=-1027/0	,							Č	Ņ	2	a f
	4-22=-54/0,	5-22=-6	3/19, 5-20=-531/0,	0								Ξ.	SEA	L
	12-17=-305/	0, 13-16 0, 11-17	=-127/0, 9-17=0/672	0,								1	0363	22
NOTES 1) Unbalance	d floor live los	ids have	been considered for									111	N.A.	a. 1. 3
this design	rder(s) for true	es to true	s connections									E.	A MGIN	EEF
													1, A. G	ILBE
														nn. ne 3 2025
													Jul	10 0,2020

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 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Arlington Rev.1-El.4-Floor	
	2F20B	Floor	2	1	Job Reference (optional)	173911611

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:23 ID:KRILSBpxQRucAGwB5hgD7yzBeW1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:19.3	cale = 1:19.3												
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.01	8-9	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.02	8-9	>999	360			
BCLL	0.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.01	7	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 46 lb	FT = 20%F, 12%E	
LUMBER													
TOP CHORD	2x4 SP No.2(flat)												
BOT CHORD	2x4 SP No.2(flat)												
WEBS	2x4 SP No.3(flat)												

BRACING

TOP CHORD	Structura	i wood sheathing directly applied or
	6-0-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	7=0-5-8, 10= Mechanical
	Max Grav	7=322 (LC 1), 10=331 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-10=-22/	/0, 6-7=-33/0, 1-2=0/0, 2-3=-556/0,
	2 4 626	10 A E 62610 E 6 010

4=-626/0, 4-5=-626/0, 5-6=0/0

- BOT CHORD 9-10=0/397, 8-9=0/694, 7-8=0/368
- WEBS 2-10=-499/0, 2-9=0/207, 3-9=-179/0, 3-8=-86/0, 4-8=-83/0, 5-7=-462/0, 5-8=0/302

NOTES

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

- Load case(s) 1 has/have been modified. Building 2) designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 3) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, 1) Plate Increase=1.00
 - Uniform Loads (lb/ft) Vert: 7-10=-7, 1-2=-67, 2-4=-79, 4-6=-67



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



Job	Truss	Truss Type		Ply	Arlington Rev.1-El.4-Floor		
	2F15	Floor	3	1	Job Reference (optional)		

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 02 18:25:22 Page: 1 ID:d3IQUO5?mpwC3yloVj6r60zBeVf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x6 =





3x3 II



3x6 =





Scale = 1:19.3													
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	0.00	6	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	0.00	6-7	>999	360			
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%F, 12%E	
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat)												

BRACING

DIVAGING		
TOP CHORD	Structura	I wood sheathing directly applied or
	4-6-4 oc	ourlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	5=0-3-8, 7= Mechanical
	Max Grav	5=157 (LC 1), 7=157 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	•
TOP CHORD	1-7=-38/0), 4-5=-153/0, 1-2=0/0, 2-3=-166/0,

	3-4=-166/0
BOT CHORD	6-7=0/146, 5-6=0/0
WEBS	2-7=-184/0, 2-6=0/26, 3-6=-108/0, 4-6=0/199

NOTES

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

2)

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls
- at their outer ends or restrained by other means. LOAD CASE(S) Standard



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



