

#1 42961



Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: J21-4810-1 - Burger King LC-3

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Quality Dining Inc. Project Name: Model:
Lot/Block: Subdivision:
Address: 13703 US Hwy 441 South
City: Lake City State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 140 mph
Roof Load: 50.0 psf Floor Load: N/A psf

This package includes 12 individual, Truss Design Drawings and 0 Additional Drawings.

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

No.	Seal#	Truss Name	Date
1	T25810586	A	10/30/21
2	T25810587	B	10/30/21
3	T25810588	C1	10/30/21
4	T25810589	C1A	10/30/21
5	T25810590	C2	10/30/21
6	T25810591	D	10/30/21
7	T25810592	F	10/30/21
8	T25810593	G	10/30/21
9	T25810594	GT1	10/30/21
10	T25810595	GT2	10/30/21
11	T25810596	GT3	10/30/21
12	T25810597	H	10/30/21

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: O'Regan, Philip

My license renewal date for the state of Florida is February 28, 2023.

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



Philip J. O'Regan PE No. 58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 30, 2021

O'Regan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810586
J21-4810-1	A	COMMON	14	1		

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:18 2021 Page 1
ID:PoCxB3uVfXostUvaB3rVEqTtYc-clBqze6HYyKw4f9GF75eftRUX7_A4OSVwOmUDcyOrZJ

5-6-0	10-8-8	14-2-8	20-2-0	26-1-8	29-7-8	34-7-13	39-8-3	45-0-0
5-6-0	5-2-8	3-6-0	5-11-8	5-11-8	3-6-0	5-0-5	5-0-5	5-3-13

Scale = 1:79.2

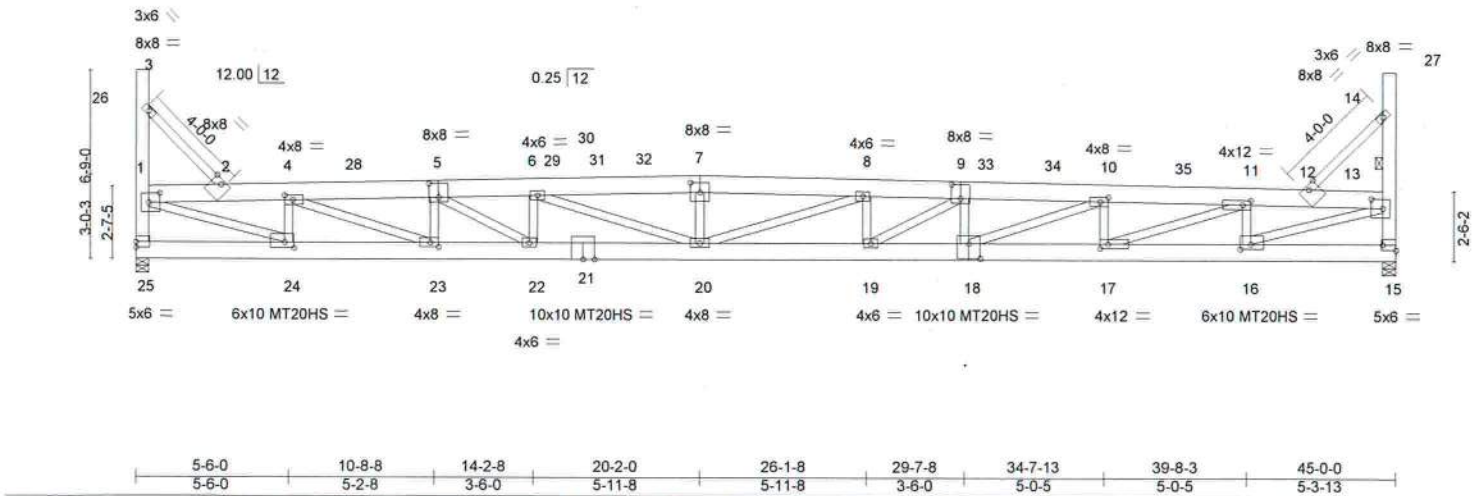


Plate Offsets (X,Y)--	[1:0-4-12,0-4-0], [4:0-3-8,0-2-0], [5:0-4-0,0-6-0], [7:0-4-0,0-4-4], [9:0-4-0,0-6-0], [10:0-3-8,0-2-0], [11:0-3-8,0-2-0], [13:0-5-0,0-4-0], [15:Edge,0-2-8], [16:0-4-8,0-2-4], [17:0-3-8,0-2-0], [18:0-5-0,0-6-8], [23:0-3-8,0-2-0], [24:0-4-0,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.97	Vert(LL)	-0.55	19-20	>970	MT20	244/190
TCDL 20.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-1.55	19-20	>344	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.93	Horz(CT)	0.18	15	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.39	19-20	>999		
								Weight: 400 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP DSS *Except*
 2-3, 12-14: 2x4 SP No.3
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.3 *Except*
 25-26, 15-27: 2x6 SP No.2, 1-24, 13-16: 2x4 SP No.1
 4-23, 11-17: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 14-15

REACTIONS. (size) 25=0-5-8, 15=0-5-8
 Max Horz 25=-268(LC 10)
 Max Uplift 25=-21(LC 12)
 Max Grav 25=2372(LC 1), 15=2498(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-25=-2227/103, 1-2=-5174/144, 2-4=-5150/170, 4-5=-8461/46, 5-6=-10089/0, 6-7=-11201/0, 7-8=-11200/0, 8-9=-11746/0, 9-10=-11310/0, 10-11=-9348/0, 11-12=-5511/0, 12-13=-5538/0, 13-15=-2340/0
BOT CHORD 24-25=-339/549, 23-24=-399/5148, 22-23=-270/8538, 20-22=-118/10086, 19-20=0/11741, 18-19=0/11406, 17-18=0/9343, 16-17=0/5508, 15-16=0/439
WEBS 1-24=-64/5100, 4-24=-1763/107, 4-23=-42/3568, 5-23=-1327/69, 5-22=0/1854, 6-22=-879/20, 6-20=0/1188, 8-20=-604/0, 8-19=-116/251, 9-19=-341/402, 9-18=-811/0, 10-18=0/2133, 10-17=-1430/0, 11-17=0/4130, 11-16=-1879/0, 13-16=0/5411

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-3-8, Interior(1) 3-3-8 to 44-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert #634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 30,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev 5/19/2020 BEFORE USE.

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



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810586
J21-4810-1	A	COMMON	14	1		
Job Reference (optional)						

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:18 2021 Page 2
ID:PoCxB3uVfxostUvaB3rVEqTYTyc-clBqze6HYyKw4f9GF75eftRUX7_A4OSVwOmUDcyOrZJ

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-7=-80, 7-12=-80, 15-25=-20, 2-3=-80, 12-14=-80
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-7=-70, 7-12=-70, 15-25=-20, 2-3=-70, 12-14=-70
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-7=-40, 7-12=-40, 15-25=-40, 2-3=-40, 12-14=-40
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=20, 7-12=20, 15-25=-12, 2-3=20, 12-14=20
Horz: 1-25=15, 1-3=15, 3-26=47, 2-7=-29, 7-12=29, 13-15=29, 13-14=29, 14-27=47, 2-3=29, 12-14=-29
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=20, 7-12=20, 15-25=-12, 2-3=20, 12-14=20
Horz: 1-25=-29, 1-3=-29, 3-26=-47, 2-7=-29, 7-12=29, 13-15=-15, 13-14=-15, 14-27=-47, 2-3=29, 12-14=-29
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-60, 7-12=-60, 15-25=-20, 2-3=-60, 12-14=-60
Horz: 1-25=-18, 1-3=-18, 3-26=40, 2-7=20, 7-12=-20, 13-15=-26, 13-14=-26, 14-27=47, 2-3=-20, 12-14=20
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-60, 7-12=-60, 15-25=-20, 2-3=-60, 12-14=-60
Horz: 1-25=26, 1-3=26, 3-26=-47, 2-7=20, 7-12=-20, 13-15=18, 13-14=18, 14-27=-40, 2-3=-20, 12-14=20
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-28=22, 28-30=18, 7-30=11, 7-33=11, 12-33=7, 15-25=-12, 2-3=12, 12-14=12
Horz: 1-25=15, 1-3=15, 3-26=47, 2-28=-30, 28-30=-27, 7-30=-19, 7-33=19, 12-33=15, 13-15=18, 13-14=18, 14-27=31, 2-3=20, 12-14=-20
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-29=7, 7-29=11, 7-9=11, 9-35=18, 12-35=22, 15-25=-12, 2-3=-3, 12-14=-3
Horz: 1-25=-18, 1-3=-18, 3-26=-31, 2-29=-15, 7-29=-19, 7-9=19, 9-35=27, 12-35=30, 13-15=-15, 13-14=-15, 14-27=-47, 2-3=5, 12-14=-5
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-41, 7-12=-41, 15-25=-20, 2-3=-30, 12-14=-30
Horz: 1-25=25, 1-3=25, 3-26=47, 2-7=1, 7-12=-1, 13-15=7, 13-14=7, 14-27=31, 2-3=10, 12-14=-10
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-41, 7-12=-41, 15-25=-20, 2-3=-55, 12-14=-55
Horz: 1-25=-7, 1-3=-7, 3-26=-31, 2-7=1, 7-12=-1, 13-15=-25, 13-14=-25, 14-27=-47, 2-3=-15, 12-14=15
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=19, 7-12=19, 15-25=-12, 2-3=19, 12-14=19
Horz: 1-25=-23, 1-3=-23, 3-26=-31, 2-7=-28, 7-12=28, 13-15=23, 13-14=23, 14-27=31, 2-3=28, 12-14=-28
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=4, 7-12=4, 15-25=-12, 2-3=4, 12-14=4
Horz: 1-25=-23, 1-3=-23, 3-26=-31, 2-7=-13, 7-12=13, 13-15=23, 13-14=23, 14-27=31, 2-3=13, 12-14=-13
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165

Continued on page 3



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810586
J21-4810-1	A	COMMON	14	1		

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:18 2021 Page 3
ID:PoCx83uVfxostUvaB3rVEqYTTYc-clBqze6HYyKw4f9GF75ettRUX7_A4OSVwOmUDcyOrZJ

LOAD CASE(S) Standard

- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-41, 7-12=-41, 15-25=-20, 2-3=-41, 12-14=-41
Horz: 1-25=-12, 1-3=-12, 3-26=-31, 2-7=1, 7-12=-1, 13-15=12, 13-14=12, 14-27=31, 2-3=-1, 12-14=1
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-41, 7-12=-41, 15-25=-20, 2-3=-41, 12-14=-41
Horz: 1-25=-12, 1-3=-12, 3-26=-31, 2-7=1, 7-12=-1, 13-15=12, 13-14=12, 14-27=31, 2-3=-1, 12-14=1
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 2-7=-40, 7-12=-40, 15-25=-20, 2-3=-40, 12-14=-40
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-71, 7-12=-71, 15-25=-20, 2-3=-63, 12-14=-63
Horz: 1-25=19, 1-3=19, 3-26=35, 2-7=1, 7-12=-1, 13-15=5, 13-14=5, 14-27=23, 2-3=7, 12-14=-7
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-71, 7-12=-71, 15-25=-20, 2-3=-81, 12-14=-81
Horz: 1-25=-5, 1-3=-5, 3-26=-23, 2-7=1, 7-12=-1, 13-15=-19, 13-14=-19, 14-27=-35, 2-3=-11, 12-14=11
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-71, 7-12=-71, 15-25=-20, 2-3=-71, 12-14=-71
Horz: 1-25=-9, 1-3=-9, 3-26=-23, 2-7=1, 7-12=-1, 13-15=9, 13-14=9, 14-27=23, 2-3=-1, 12-14=1
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-7=-71, 7-12=-71, 15-25=-20, 2-3=-71, 12-14=-71
Horz: 1-25=-9, 1-3=-9, 3-26=-23, 2-7=1, 7-12=-1, 13-15=9, 13-14=9, 14-27=23, 2-3=-1, 12-14=1
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-7=-40, 7-12=-40, 15-25=-20, 2-3=-40, 12-14=-40
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-7=-80, 7-12=-80, 15-25=-20, 2-3=-80, 12-14=-80
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 23) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-7=-40, 7-12=-40, 15-25=-20, 2-3=-40, 12-14=-40
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165
- 24) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-7=-70, 7-12=-70, 15-25=-20, 2-3=-70, 12-14=-70
Concentrated Loads (lb)
Vert: 9=-200 31=-25 32=-25 34=-165



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6904 Parke East Blvd.
Tampa, FL 36610

Job J21-4810-1	Truss B	Truss Type COMMON	Qty 10	Ply 1	Burger King LC-3	T25810587
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DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:19 2021 Page 1

ID:PoCxB3uVfostUvaB3rVEqYTTYc-5ylCA_7vJGSnlpTjctC4_gkWM4pqme92V2I3yOrZI

Job Reference (optional)

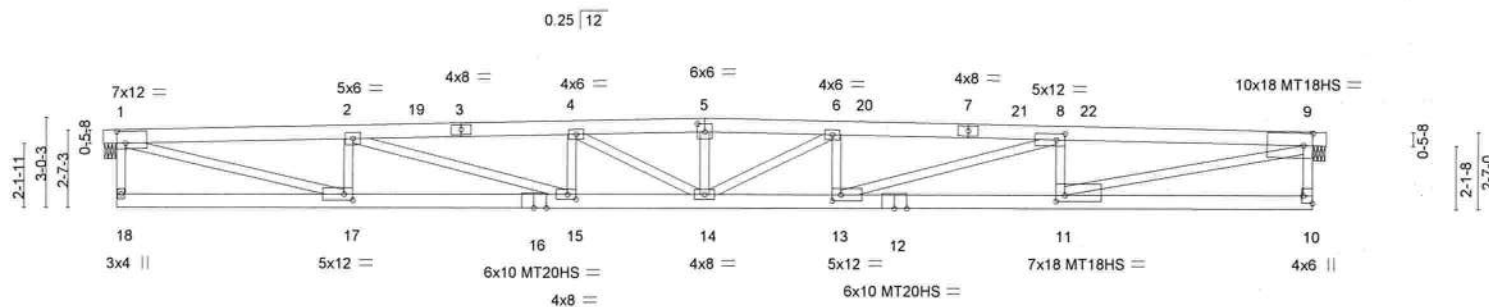
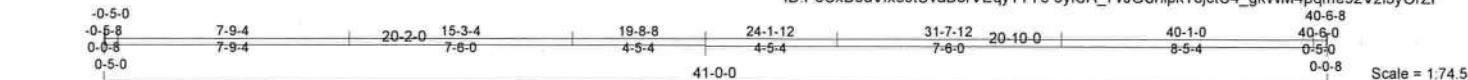


Plate Offsets (X,Y)--	[1:0-3-8,0-4-12], [5:0-3-0,0-3-4], [8:0-3-8,0-2-8], [9:0-3-8,0-5-0], [10:Edge,0-3-8], [11:0-3-8,0-2-8], [13:0-3-8,0-2-8], [15:0-3-8,0-2-0], [17:0-3-8,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.94	Vert(LL) -0.48	14	>995	360	MT20	244/190
TCDL 20.0	Lumber DOL 1.25	BC 0.57	Vert(CT) -1.42	14	>336	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.99	Horz(CT) -0.19	9	n/a	n/a	MT18HS	244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Wind(LL) 0.39	14	>999	240	Weight: 268 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP M 24
BOT CHORD 2x6 SP M 24
WEBS 2x4 SP No.3 *Except*
 1-17,9-11: 2x4 SP No.1, 2-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-4-8, 9=0-4-8
 Max Horz 1=70(LC 10)
 Max Grav 1=2263(LC 1), 9=2191(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6319/589, 2-4=-9208/405, 4-5=-9287/485, 5-6=-9287/485, 6-8=-8960/790, 8-9=-6488/833
BOT CHORD 15-17=-523/6312, 14-15=-334/9199, 13-14=-737/8952, 11-13=-799/6480
WEBS 1-17=-529/6399, 2-17=-1603/259, 2-15=0/3021, 4-15=-790/13, 4-14=-283/411, 6-14=0/722, 6-13=-650/54, 8-13=0/2586, 8-11=-1492/317, 9-11=-789/6506

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- C-C wind load user defined.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 9.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S)

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-5=-80, 5-9=-80, 10-18=-20

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 30,2021

Continued on page 2

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6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810587
J21-4810-1	B	COMMON	10	1		

DJ Trusses Unlimited, Lakeland, FL - 33803.

8 520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:19 2021 Page 2
ID:PoCxB3uVfostUvaB3rVEqyTTYc-5ylCA_7vJGSnpkTojctC4_gkWM4pqme92V2l3yOrZl

LOAD CASE(S)

- Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-70, 5-9=-70, 10-18=-20
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-40, 5-9=-40, 10-18=-40
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=38, 5-9=38, 10-18=-12
Horz: 1-18=15, 1-5=-46, 5-9=46, 9-10=29
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=38, 5-9=38, 10-18=-12
Horz: 1-18=-29, 1-5=-46, 5-9=46, 9-10=-15
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-51, 5-9=-51, 10-18=-20
Horz: 1-18=-18, 1-5=11, 5-9=-11, 9-10=-26
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-51, 5-9=-51, 10-18=-20
Horz: 1-18=26, 1-5=11, 5-9=-11, 9-10=18
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=22, 2-4=18, 4-5=11, 5-21=11, 9-21=7, 10-18=-12
Horz: 1-18=15, 1-2=-30, 2-4=-27, 4-5=-19, 5-21=19, 9-21=15, 9-10=18
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-19=7, 5-19=11, 5-20=11, 20-22=18, 9-22=22, 10-18=-12
Horz: 1-18=-18, 1-19=-15, 5-19=-19, 5-20=19, 20-22=27, 9-22=30, 9-10=-15
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-41, 5-9=-41, 10-18=-20
Horz: 1-18=25, 1-5=1, 5-9=-1, 9-10=7
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-41, 5-9=-41, 10-18=-20
Horz: 1-18=-7, 1-5=1, 5-9=-1, 9-10=-25
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=19, 5-9=19, 10-18=-12
Horz: 1-18=-23, 1-5=-28, 5-9=28, 9-10=23
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=4, 5-9=4, 10-18=-12
Horz: 1-18=-23, 1-5=-13, 5-9=13, 9-10=23
Concentrated Loads (lb)
Vert: 5=-191 4=-284
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810587
J21-4810-1	B	COMMON	10	1		

DJ Trusses Unlimited, Lakeland, FL - 33803,

8 520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:19 2021 Page 3
ID:PoCxB3uVfhostUvaB3rVEqyTTYc-5ylCA_7vJGSnlpTojctC4_gkWM4pqme92V2l3yOrZI

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-5=-41, 5-9=-41, 10-18=-20

Horz: 1-18=-12, 1-5=1, 5-9=-1, 9-10=12

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-41, 5-9=-41, 10-18=-20

Horz: 1-18=-12, 1-5=1, 5-9=-1, 9-10=12

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-5=-40, 5-9=-40, 10-18=-20

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-71, 5-9=-71, 10-18=-20

Horz: 1-18=19, 1-5=1, 5-9=-1, 9-10=5

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-71, 5-9=-71, 10-18=-20

Horz: 1-18=-5, 1-5=1, 5-9=-1, 9-10=-19

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-71, 5-9=-71, 10-18=-20

Horz: 1-18=-9, 1-5=1, 5-9=-1, 9-10=9

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-71, 5-9=-71, 10-18=-20

Horz: 1-18=-9, 1-5=1, 5-9=-1, 9-10=9

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-80, 5-9=-40, 10-18=-20

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-40, 5-9=-80, 10-18=-20

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 23) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-70, 5-9=-40, 10-18=-20

Concentrated Loads (lb)

Vert: 5=-191 4=-284

- 24) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-40, 5-9=-70, 10-18=-20

Concentrated Loads (lb)

Vert: 5=-191 4=-284



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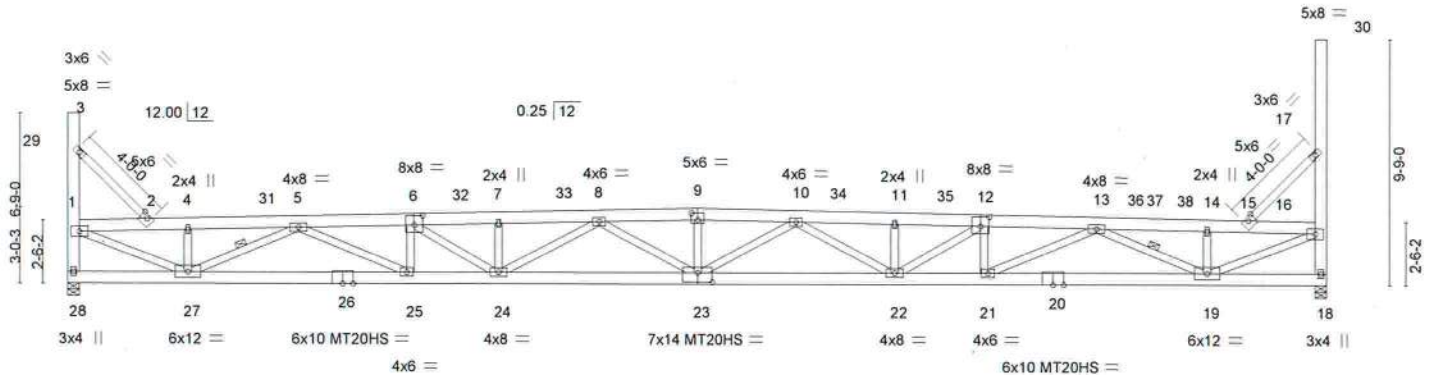
Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810588
J21-4810-1	C1	COMMON	11	1		

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:21 2021 Page 1
ID:PoCxB3uVfostUvaB3rVEqyTTYc-1Ktybf89rtiUx6urw8fLHV340K19Hl_xcM_8qxyOrZG



Scale = 1:87.6



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.70	23	>848	360	244/190
TCDL 20.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-2.04	22-23	>290	240	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.88	Horz(CT)	0.24	18	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.52	23	>999	240	
								Weight: 375 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
2-3,15-17: 2x4 SP No.3
BOT CHORD 2x6 SP M 24
WEBS 2x4 SP No.3 *Except*
28-29,18-30: 2x6 SP No.2, 1-27,16-19: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-27, 13-19

REACTIONS. (size) 28=0-5-8, 18=0-5-8
Max Horz 28=277(LC 11)
Max Grav 28=1793(LC 1), 18=1953(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-28=-1725/29, 1-2=-3427/0, 2-4=-3404/0, 4-5=-3406/2, 5-6=-7661/0, 6-7=-8501/0, 7-8=-8500/0, 8-9=-9119/0, 9-10=-9119/0, 10-11=-9150/0, 11-12=-9150/0, 12-13=-8402/0, 13-14=-3831/50, 14-15=-3826/44, 15-16=-3761/0, 16-18=-1879/0, 16-17=-327/300, 15-17=-397/400
BOT CHORD 27-28=-320/350, 25-27=-108/5888, 24-25=0/7705, 23-24=0/8997, 22-23=0/9317, 21-22=0/8451, 19-21=0/6460
WEBS 1-27=0/3557, 5-27=-2784/27, 5-25=0/1982, 6-25=-802/0, 6-24=0/964, 8-24=-592/0, 10-23=-280/0, 10-22=-202/372, 11-22=-329/0, 12-22=-105/846, 12-21=-888/0, 13-21=0/2171, 13-19=-3055/0, 14-19=-327/226, 16-19=0/3907

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-3-8, Interior(1) 3-3-8 to 49-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

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Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 9834
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Date:

October 30,2021

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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810588
J21-4810-1	C1	COMMON	11	1		
Job Reference (optional)						

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:21 2021 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-53, 9-15=-53, 18-28=-13, 2-3=-53, 15-17=-53
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-47, 9-15=-47, 18-28=-13, 2-3=-47, 15-17=-47
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-27, 9-15=-27, 18-28=-27, 2-3=-27, 15-17=-27
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=14, 9-15=14, 18-28=-8, 2-3=14, 15-17=14
Horz: 1-28=10, 1-3=10, 3-29=30, 2-9=-19, 9-15=19, 16-18=19, 16-17=19, 17-30=32, 2-3=19, 15-17=-19
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=14, 9-15=14, 18-28=-8, 2-3=14, 15-17=14
Horz: 1-28=-19, 1-3=-19, 3-29=-30, 2-9=-19, 9-15=19, 16-18=-10, 16-17=-10, 17-30=-32, 2-3=19, 15-17=-19
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-40, 9-15=-40, 18-28=-13, 2-3=-40, 15-17=-40
Horz: 1-28=-12, 1-3=-12, 3-29=26, 2-9=13, 9-15=-13, 16-18=-17, 16-17=-17, 17-30=32, 2-3=-13, 15-17=13
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-40, 9-15=-40, 18-28=-13, 2-3=-40, 15-17=-40
Horz: 1-28=17, 1-3=17, 3-29=-30, 2-9=13, 9-15=-13, 16-18=12, 16-17=12, 17-30=-28, 2-3=-13, 15-17=13
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-31=15, 31-32=12, 9-32=7, 9-34=7, 15-34=5, 18-28=-8, 2-3=-2, 15-17=-2
Horz: 1-28=10, 1-3=10, 3-29=30, 2-31=-20, 31-32=-18, 9-32=-13, 9-34=13, 15-34=10, 16-18=12, 16-17=12, 17-30=21, 2-3=4, 15-17=-4
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-33=5, 9-33=7, 9-35=7, 35-36=12, 15-36=15, 18-28=-8, 2-3=-2, 15-17=-2
Horz: 1-28=-12, 1-3=-12, 3-29=-20, 2-33=-10, 9-33=-13, 9-35=13, 35-36=18, 15-36=20, 16-18=-10, 16-17=-10, 17-30=-32, 2-3=4, 15-17=-4
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-27, 9-15=-27, 18-28=-13, 2-3=-36, 15-17=-36
Horz: 1-28=17, 1-3=17, 3-29=30, 2-9=-1, 9-15=-1, 16-18=5, 16-17=5, 17-30=21, 2-3=-10, 15-17=10
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-27, 9-15=-27, 18-28=-13, 2-3=-36, 15-17=-36
Horz: 1-28=-5, 1-3=-5, 3-29=-20, 2-9=1, 9-15=-1, 16-18=-17, 16-17=-17, 17-30=-32, 2-3=-10, 15-17=10
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=13, 9-15=13, 18-28=-8, 2-3=13, 15-17=13
Horz: 1-28=-15, 1-3=-15, 3-29=-20, 2-9=-19, 9-15=19, 16-18=15, 16-17=15, 17-30=21, 2-3=19, 15-17=-19
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=3, 9-15=3, 18-28=-8, 2-3=3, 15-17=3
Horz: 1-28=-15, 1-3=-15, 3-29=-20, 2-9=-9, 9-15=9, 16-18=15, 16-17=15, 17-30=21, 2-3=9, 15-17=-9
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

Continued on page 3



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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810588
J21-4810-1	C1	COMMON	11	1	Job Reference (optional)	

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:21 2021 Page 3
ID:PoCxB3uVfostUvaB3rVEqYTTYc-1KtybI89rtiUx6urw8fLHV340K19Hl_xcM_8qxyOrZG

LOAD CASE(S) Standard

- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-27, 9-15=-27, 18-28=-13, 2-3=-27, 15-17=-27
Horz: 1-28=-8, 1-3=-8, 3-29=-20, 2-9=1, 9-15=-1, 16-18=8, 16-17=8, 17-30=21, 2-3=-1, 15-17=1
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-27, 9-15=-27, 18-28=-13, 2-3=-27, 15-17=-27
Horz: 1-28=-8, 1-3=-8, 3-29=-20, 2-9=1, 9-15=-1, 16-18=8, 16-17=8, 17-30=21, 2-3=-1, 15-17=1
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 2-9=-27, 9-15=-27, 18-28=-13, 2-3=-27, 15-17=-27
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-47, 9-15=-47, 18-28=-13, 2-3=-54, 15-17=-54
Horz: 1-28=13, 1-3=13, 3-29=23, 2-9=0, 9-15=0, 16-18=4, 16-17=4, 17-30=16, 2-3=-7, 15-17=7
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-47, 9-15=-47, 18-28=-13, 2-3=-54, 15-17=-54
Horz: 1-28=-4, 1-3=-4, 3-29=-15, 2-9=0, 9-15=0, 16-18=-13, 16-17=-13, 17-30=-24, 2-3=-7, 15-17=7
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-47, 9-15=-47, 18-28=-13, 2-3=-47, 15-17=-47
Horz: 1-28=-6, 1-3=-6, 3-29=-15, 2-9=0, 9-15=0, 16-18=6, 16-17=6, 17-30=16, 2-3=0, 15-17=0
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-47, 9-15=-47, 18-28=-13, 2-3=-47, 15-17=-47
Horz: 1-28=-6, 1-3=-6, 3-29=-15, 2-9=0, 9-15=0, 16-18=6, 16-17=6, 17-30=16, 2-3=0, 15-17=0
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-53, 9-15=-53, 18-28=-13, 2-3=-53, 15-17=-53
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-53, 9-15=-53, 18-28=-13, 2-3=-53, 15-17=-53
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 23) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-47, 9-15=-47, 18-28=-13, 2-3=-47, 15-17=-47
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 24) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-47, 9-15=-47, 18-28=-13, 2-3=-47, 15-17=-47
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810589
J21-4810-1	C1A	COMMON	2	2		

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:22 2021 Page 1
ID:PoCxB3uVfostUvaB3rVEqyTTYc-VXRLp?9ocBrLZGS1UrAaqcJAKQ50A4r0kiMOyOrZF

3-3-7	4-8-7	9-1-5	13-6-4	17-0-4	20-11-2	24-10-0	28-8-14	32-7-12	36-1-12	40-6-11	44-11-9	47-3-14	49-8-0
3-3-7	1-5-0	4-4-15	4-4-15	3-6-0	3-10-14	3-10-14	3-10-14	3-10-14	3-6-0	4-4-15	4-4-15	2-4-5	2-4-2

Scale = 1.87.6

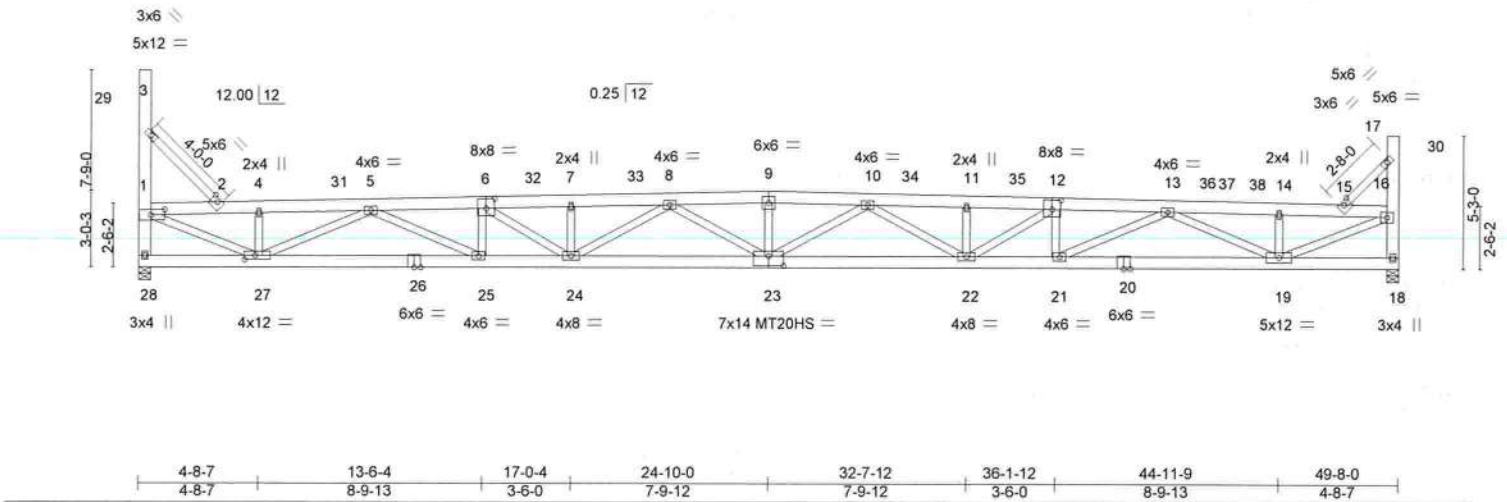


Plate Offsets (X,Y)--	[1:0-6-9,0-2-8], [6:0-4-0,0-4-8], [12:0-4-0,0-4-8], [23:0-7-0,0-4-8], [27:0-4-12,0-2-0]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	-0.52	23	>999	MT20	244/190
TCDL 20.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-1.46	23	>406	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.98	Horz(CT)	0.17	18	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.38	23	>999		
								Weight: 729 lb	FT = 20%

LUMBER-			BRACING-	
TOP CHORD	2x6 SP No.2 *Except*		TOP CHORD	Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
	2-3,15-17: 2x4 SP No.3			
BOT CHORD	2x6 SP M 24		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*			
	28-29,18-30: 2x6 SP No.2, 16-19: 2x4 SP No.2			

REACTIONS.	(size) 28=0-5-8, 18=0-5-8
	Max Horz 28=-304(LC 10)
	Max Uplift 28=-23(LC 12)
	Max Grav 28=2613(LC 1), 18=2773(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-28=-2507/101, 1-3=-270/237, 1-2=-4978/262, 2-4=-4940/369, 4-5=-4942/374, 5-6=-11062/163, 6-7=-12248/74, 7-8=-12248/76, 8-9=-13050/0, 9-10=-13050/0, 10-11=-12898/0, 11-12=-12898/0, 12-13=-11802/0, 13-14=-5282/0, 14-15=-5281/0, 15-16=-5351/0, 16-18=-2667/0, 2-3=-300/293
BOT CHORD	27-28=-337/480, 25-27=-495/8532, 24-25=-318/11123, 23-24=-137/12928, 22-23=0/13249, 21-22=0/11869, 19-21=0/9105, 18-19=0/281
WEBS	1-27=-215/5140, 4-27=-319/214, 5-27=-4027/176, 5-25=0/2827, 6-25=-1134/49, 6-24=-11/1362, 7-24=-270/54, 8-24=-812/11, 8-23=0/257, 9-23=0/299, 10-23=-260/0, 10-22=-422/381, 11-22=-414/0, 12-22=-110/1246, 12-21=-1222/0, 13-21=0/3014, 13-19=-4289/0, 14-19=-271/86, 16-19=0/5496

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Encl., GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-3-8, Interior(1) 3-3-8 to 49-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 30,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810589
J21-4810-1	C1A	COMMON	2	2	Job Reference (optional)	

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:22 2021 Page 2
ID: PoCxB3uVfXostUvaB3rVEqyTTYc-VXRLp79ocBrLZGS1UrAaqjCjAkQ50Ai4r0kiMOyOrZF

NOTES-

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28.
- 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-80, 9-15=-80, 18-28=-20, 2-3=-80, 15-17=-80
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-70, 9-15=-70, 18-28=-20, 2-3=-70, 15-17=-70
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-9=-40, 9-15=-40, 18-28=-40, 2-3=-40, 15-17=-40
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=20, 9-15=20, 18-28=-12, 2-3=20, 15-17=20
Horz: 1-28=15, 1-3=15, 3-29=47, 2-9=-29, 9-15=29, 16-18=29, 16-17=29, 17-30=45, 2-3=29, 15-17=-29
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=20, 9-15=20, 18-28=-12, 2-3=20, 15-17=20
Horz: 1-28=-29, 1-3=-29, 3-29=47, 2-9=-29, 9-15=29, 16-18=-15, 16-17=-15, 17-30=-45, 2-3=29, 15-17=-29
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-60, 9-15=-60, 18-28=-20, 2-3=-60, 15-17=-60
Horz: 1-28=-18, 1-3=-18, 3-29=41, 2-9=20, 9-15=-20, 16-18=-26, 16-17=-26, 17-30=45, 2-3=-20, 15-17=20
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-60, 9-15=-60, 18-28=-20, 2-3=-60, 15-17=-60
Horz: 1-28=26, 1-3=26, 3-29=-47, 2-9=20, 9-15=-20, 16-18=18, 16-17=18, 17-30=-39, 2-3=-20, 15-17=20
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-31=22, 31-32=18, 9-32=11, 9-34=11, 15-34=7, 18-28=-12, 2-3=12, 15-17=12
Horz: 1-28=15, 1-3=15, 3-29=47, 2-31=30, 31-32=-27, 9-32=-19, 9-34=19, 15-34=15, 16-18=18, 16-17=18, 17-30=30, 2-3=20, 15-17=-20
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-33=7, 9-33=11, 9-35=11, 35-36=18, 15-36=22, 18-28=-12, 2-3=-3, 15-17=-3
Horz: 1-28=-18, 1-3=-18, 3-29=-31, 2-33=-15, 9-33=-19, 9-35=19, 35-36=27, 15-36=30, 16-18=-15, 16-17=-15, 17-30=-45, 2-3=5, 15-17=-5
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-41, 9-15=-41, 18-28=-20, 2-3=-30, 15-17=-30
Horz: 1-28=25, 1-3=25, 3-29=47, 2-9=1, 9-15=-1, 16-18=7, 16-17=7, 17-30=30, 2-3=10, 15-17=-10
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 2-9=-41, 9-15=-41, 18-28=-20, 2-3=-55, 15-17=-55
Horz: 1-28=-7, 1-3=-7, 3-29=-31, 2-9=1, 9-15=-1, 16-18=-25, 16-17=-25, 17-30=-45, 2-3=-15, 15-17=15
Concentrated Loads (lb)
Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810589
J21-4810-1	C1A	COMMON	2	2	Job Reference (optional)	

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:22 2021 Page 3
ID:PoCx83uVfxostUvaB3rVEqyTTYc-VXRLp?9ocBrLZGS1UrAaqjcJkQ50Ai4r0kiMOyOrZF

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 2-9=19, 9-15=19, 18-28=-12, 2-3=19, 15-17=19

Horz: 1-28=-23, 1-3=-23, 3-29=-31, 2-9=-28, 9-15=28, 16-18=23, 16-17=23, 17-30=30, 2-3=28, 15-17=-28

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-9=4, 9-15=4, 18-28=-12, 2-3=4, 15-17=4

Horz: 1-28=-23, 1-3=-23, 3-29=-31, 2-9=-13, 9-15=13, 16-18=23, 16-17=23, 17-30=30, 2-3=13, 15-17=-13

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-9=-41, 9-15=-41, 18-28=-20, 2-3=-41, 15-17=-41

Horz: 1-28=-12, 1-3=-12, 3-29=-31, 2-9=1, 9-15=-1, 16-18=12, 16-17=12, 17-30=30, 2-3=-1, 15-17=1

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-9=-41, 9-15=-41, 18-28=-20, 2-3=-41, 15-17=-41

Horz: 1-28=-12, 1-3=-12, 3-29=-31, 2-9=1, 9-15=-1, 16-18=12, 16-17=12, 17-30=30, 2-3=-1, 15-17=1

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 2-9=-40, 9-15=-40, 18-28=-20, 2-3=-40, 15-17=-40

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-9=-71, 9-15=-71, 18-28=-20, 2-3=-63, 15-17=-63

Horz: 1-28=-19, 1-3=19, 3-29=35, 2-9=1, 9-15=-1, 16-18=5, 16-17=5, 17-30=23, 2-3=7, 15-17=-7

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-9=-71, 9-15=-71, 18-28=-20, 2-3=-81, 15-17=-81

Horz: 1-28=-5, 1-3=-5, 3-29=-24, 2-9=1, 9-15=-1, 16-18=-19, 16-17=-19, 17-30=-34, 2-3=-11, 15-17=11

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-9=-71, 9-15=-71, 18-28=-20, 2-3=-71, 15-17=-71

Horz: 1-28=-9, 1-3=-9, 3-29=-24, 2-9=1, 9-15=-1, 16-18=9, 16-17=9, 17-30=23, 2-3=-1, 15-17=1

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-9=-71, 9-15=-71, 18-28=-20, 2-3=-71, 15-17=-71

Horz: 1-28=-9, 1-3=-9, 3-29=-24, 2-9=1, 9-15=-1, 16-18=9, 16-17=9, 17-30=23, 2-3=-1, 15-17=1

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 2-9=-40, 9-15=-40, 18-28=-20, 2-3=-40, 15-17=-40

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 2-9=-80, 9-15=-80, 18-28=-20, 2-3=-80, 15-17=-80

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 23) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 2-9=-40, 9-15=-40, 18-28=-20, 2-3=-40, 15-17=-40

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

- 24) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 2-9=-70, 9-15=-70, 18-28=-20, 2-3=-70, 15-17=-70

Concentrated Loads (lb)

Vert: 6=-25 12=-200 11=-165 32=-25 37=-25 38=-25

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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6904 Parke East Blvd.
Tampa, FL 36610

Job J21-4810-1	Truss D	Truss Type COMMON	Qty 6	Ply 1	Burger King LC-3	T25810591
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DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:25 2021 Page 1

ID:PoCx83uVfKostUvaB3rVEqyTTYc-v67TR1Cgv6DwQkBC9_jHSLkxOMDYUXX_yMziyOrZC

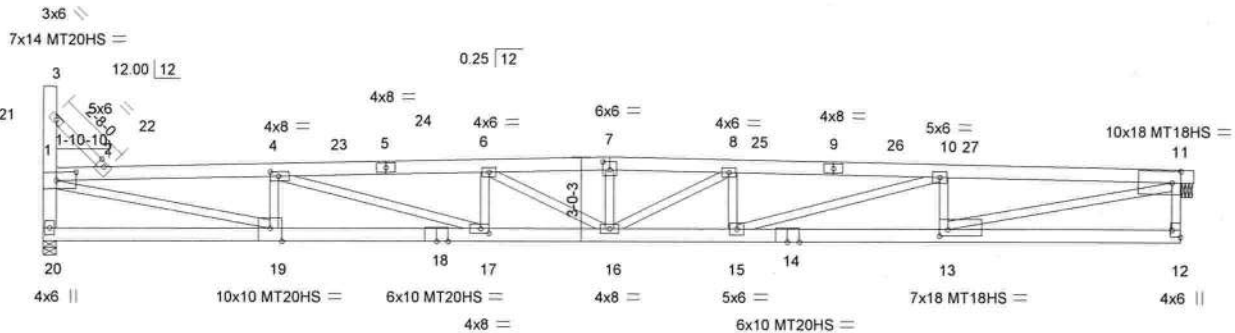
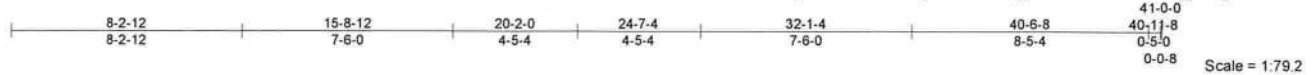


Plate Offsets (X,Y)--	[1:0-8-9,0-3-8], [4:0-3-8,0-2-0], [7:0-3-0,0-3-8], [11:0-3-8,0-5-0], [12:Edge,0-3-8], [13:0-3-8,0-2-12], [17:0-3-8,0-2-0], [19:0-5-0,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.91	Vert(LL)	-0.48	16	>999	360	MT20 244/190
TCDL 20.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-1.41	16	>341	240	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.91	Horz(CT)	-0.02	11	n/a	n/a	MT18HS 244/190
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.34	16	>999	240	Weight: 282 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SP M 24 *Except*
2-3: 2x4 SP No.3
BOT CHORD 2x6 SP M 24
WEBS 2x4 SP No.1D *Except*
20-21: 2x6 SP No.2, 11-12: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-5-8, 11=0-4-8
Max Horz 20=-189(LC 10)
Max Grav 20=2279(LC 1), 11=2213(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-2154/0, 1-2=-6681/0, 2-4=-6549/0, 4-6=-9451/0, 6-7=-9450/0, 7-8=-9450/0, 8-10=-9113/0, 10-11=-6558/0, 2-3=-125/279
BOT CHORD 19-20=-145/534, 17-19=0/6544, 16-17=0/9443, 15-16=0/9104, 13-15=0/6550
WEBS 1-19=0/6338, 4-19=-1530/0, 4-17=0/3033, 6-17=-776/0, 8-16=0/420, 8-15=-665/0, 10-15=0/2672, 10-13=-1515/60, 11-13=0/6587

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl. GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 2-4-3, Interior(1) 2-4-3 to 40-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 30,2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810591
J21-4810-1	D	COMMON	6	1	Job Reference (optional)	

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:25 2021 Page 2
ID:PoCxB3uVfxostUvaB3rVEqyTTYc-v67TR1Cgv6DwQkBC9_jHSLHkxOMDYUXX_yMziyOrZC

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 2-7=-80, 7-11=-80, 12-20=-20, 2-3=-80
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 2-7=-70, 7-11=-70, 12-20=-20, 2-3=-70
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 2-7=-40, 7-11=-40, 12-20=-40, 2-3=-40
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-7=20, 7-11=20, 12-20=-12, 2-3=20
Horz: 1-20=15, 1-3=15, 3-21=46, 2-7=-29, 7-11=29, 11-12=29, 2-3=29
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-7=20, 7-11=20, 12-20=-12, 2-3=20
Horz: 1-20=-29, 1-3=-29, 3-21=-46, 2-7=-29, 7-11=29, 11-12=-15, 2-3=29
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-7=-60, 7-11=-60, 12-20=-20, 2-3=-60
Horz: 1-20=-18, 1-3=-18, 3-21=40, 2-7=20, 7-11=-20, 11-12=-26, 2-3=-20
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-7=-60, 7-11=-60, 12-20=-20, 2-3=-60
Horz: 1-20=26, 1-3=26, 3-21=-46, 2-7=20, 7-11=-20, 11-12=18, 2-3=-20
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-22=22, 22-24=18, 7-24=11, 7-26=11, 11-26=7, 12-20=-12, 2-3=12
Horz: 1-20=15, 1-3=15, 3-21=46, 2-22=-30, 22-24=-27, 7-24=-19, 7-26=19, 11-26=15, 11-12=18, 2-3=20
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-23=7, 7-23=11, 7-25=11, 25-27=18, 11-27=22, 12-20=-12, 2-3=-3
Horz: 1-20=-18, 1-3=-18, 3-21=-46, 2-23=-15, 7-23=-19, 7-25=19, 25-27=27, 11-27=30, 11-12=-15, 2-3=5
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-7=-41, 7-11=-41, 12-20=-20, 2-3=-30
Horz: 1-20=25, 1-3=25, 3-21=46, 2-7=1, 7-11=-1, 11-12=7, 2-3=10
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-7=-41, 7-11=-41, 12-20=-20, 2-3=-55
Horz: 1-20=-7, 1-3=-7, 3-21=-46, 2-7=1, 7-11=-1, 11-12=-25, 2-3=-15
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-7=19, 7-11=19, 12-20=-12, 2-3=19
Horz: 1-20=-23, 1-3=-23, 3-21=-31, 2-7=-28, 7-11=28, 11-12=23, 2-3=28
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 2-7=4, 7-11=4, 12-20=-12, 2-3=4
Horz: 1-20=-23, 1-3=-23, 3-21=-31, 2-7=-13, 7-11=13, 11-12=23, 2-3=13
- Concentrated Loads (lb)
Vert: 7=-191 6=-284
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810591
J21-4810-1	D	COMMON	6	1	Job Reference (optional)	

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:25 2021 Page 3
ID:PoCxB3uVfxostUvaB3rVEqyTTYc-v67TR1Cgv6DwQkBc9_jHSLEhkxOMDYUXX_yMziyOrZC

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 2-7=-41, 7-11=-41, 12-20=-20, 2-3=-41

Horz: 1-20=-12, 1-3=-12, 3-21=-31, 2-7=1, 7-11=-1, 11-12=12, 2-3=-1

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-7=-41, 7-11=-41, 12-20=-20, 2-3=-41

Horz: 1-20=-12, 1-3=-12, 3-21=-31, 2-7=1, 7-11=-1, 11-12=12, 2-3=-1

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 2-7=-40, 7-11=-40, 12-20=-20, 2-3=-40

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-7=-71, 7-11=-71, 12-20=-20, 2-3=-63

Horz: 1-20=19, 1-3=19, 3-21=35, 2-7=1, 7-11=-1, 11-12=5, 2-3=7

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-7=-71, 7-11=-71, 12-20=-20, 2-3=-81

Horz: 1-20=-5, 1-3=-5, 3-21=-35, 2-7=1, 7-11=-1, 11-12=-19, 2-3=-11

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-7=-71, 7-11=-71, 12-20=-20, 2-3=-71

Horz: 1-20=-9, 1-3=-9, 3-21=-23, 2-7=1, 7-11=-1, 11-12=9, 2-3=-1

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 2-7=-71, 7-11=-71, 12-20=-20, 2-3=-71

Horz: 1-20=-9, 1-3=-9, 3-21=-23, 2-7=1, 7-11=-1, 11-12=9, 2-3=-1

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 2-7=-40, 7-11=-40, 12-20=-20, 2-3=-40

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 2-7=-80, 7-11=-80, 12-20=-20, 2-3=-80

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 23) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 2-7=-40, 7-11=-40, 12-20=-20, 2-3=-40

Concentrated Loads (lb)

Vert: 7=-191 6=-284

- 24) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 2-7=-70, 7-11=-70, 12-20=-20, 2-3=-70

Concentrated Loads (lb)

Vert: 7=-191 6=-284

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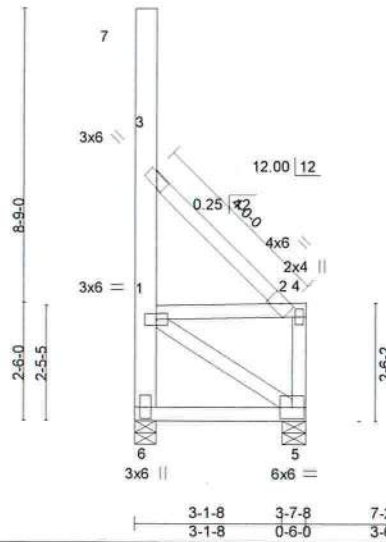
Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810592
J21-4810-1	F	COMMON	3	1		

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:26 2021 Page 1
ID:PoCxB3uVfXostUvaB3rVEqyTTYc-NlgreNCIgL2umpjhEW_Zmz8LsiyAugmeivV9yOrZB

3-3-7 3-7-8 7-2-0
3-3-7 0-4-1 3-6-8

Scale = 1:47.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
TCDL 20.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	-0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	-0.00	5-6	>999	240	Weight: 44 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
2-3: 2x4 SP No.3
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-7: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-5-8, 5=0-6-0
Max Horz 6=-322(LC 10)
Max Uplift 6=-473(LC 8), 5=-381(LC 9)
Max Grav 6=543(LC 11), 5=554(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6=-524/1105, 1-3=-455/732, 1-2=-384/736, 2-3=-919/538
BOT CHORD 5-6=-211/584
WEBS 4-5=-549/397, 1-5=-699/253

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=473, 5=381.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
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Date:

October 30,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

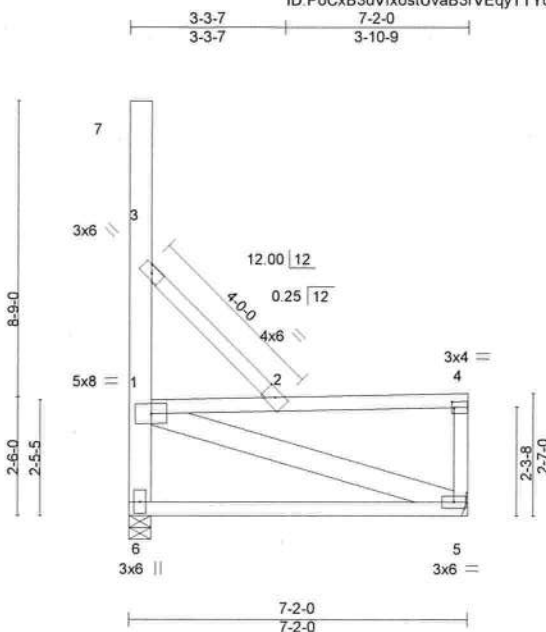


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810593
J21-4810-1	G	Common	7	1		

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:27 2021 Page 1
ID: PoCxB3uVfxostUvaB3rVEqyTTYc-sUEEsjDwRjTef1L?GOMlXmJ6U7khacp?IRT1byOrZA



Scale = 1:47.0

Plate Offsets (X,Y)--		[4:0-0-8,0-1-8]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.64		Vert(LL)	-0.07	5-6	>999	360		MT20	244/190
TCDL 20.0		Lumber DOL	1.25	BC 0.40		Vert(CT)	-0.13	5-6	>614	240			
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.42		Horz(CT)	0.01	5	n/a	n/a			
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS		Wind(LL)	-0.01	5-6	>999	240		Weight: 65 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
2-3: 2x4 SP No.3
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
4-5: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-6 oc bracing.

REACTIONS.

(size) 6=0-5-8, 5=Mechanical
Max Horz 6=-338(LC 10)
Max Uplift 6=-243(LC 8), 5=-214(LC 9)
Max Grav 6=491(LC 18), 5=477(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6=-420/544, 1-3=-387/426, 1-2=-314/422, 4-5=-251/232, 2-3=-527/456
BOT CHORD 5-6=-637/847
WEBS 1-5=-786/569

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 7-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=243, 5=214.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Date:

October 30,2021

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

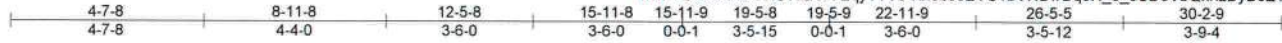
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Tampa, FL 33610

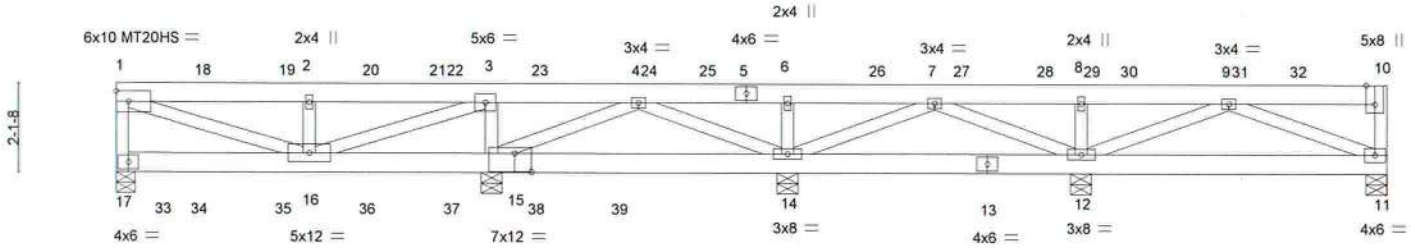
Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810594
J21-4810-1	GT1	FLAT GIRDER	1	3		

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:28 2021 Page 1
ID: PoCxB3uVfxostUvaB3rVEqyTTYc-Khoc33EYC1bVHBwBq6H_3_sCD9VbQxhzDyB0Z1yOrZ9



Scale = 1:52.7



THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.

Plate Offsets (X,Y)--	[10:0-5-8,Edge], [15:0-4-12,0-5-4]
-----------------------	------------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.96	Vert(LL)	-0.03	16	>999	360	MT20 244/190
TCDL 20.0	Lumber DOL	1.25	BC 0.29	Vert(CT)	-0.09	16	>999	240	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.01	11	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.02	16-17	>999	240	
									Weight: 590 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
3-16: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16.

REACTIONS. All bearings 0-6-0 except (jt=length) 17=0-5-8.

(lb) - Max Horz 17=-54(LC 4)
Max Grav All reactions 250 lb or less at joint(s) except 17=6572(LC 1), 11=6666(LC 1), 11=6666(LC 1), 15=11565(LC 1), 14=7344(LC 1), 12=8742(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-17=-5903/0, 1-2=-6602/0, 2-3=-6602/0, 3-4=0/3797, 4-6=0/1763, 6-7=0/1763, 7-8=0/1719, 8-9=0/1719, 10-11=-5141/0
BOT CHORD 16-17=0/555, 15-16=-1176/0, 14-15=0/357, 12-14=0/1803, 11-12=0/3351
WEBS 1-16=0/6452, 2-16=-4987/0, 3-16=0/8334, 3-15=-8479/0, 4-15=-4768/0, 4-14=-2349/0, 6-14=-4515/0, 7-14=-3949/0, 7-12=-3900/0, 8-12=-4478/0, 9-12=-5622/0, 9-11=-3504/0

NOTES-

- 1) n/a
- 2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 2 rows staggered at 0-4-0 oc, Except member 10-11 2x4 - 2 rows staggered at 0-4-0 oc, 2x6 - 3 rows staggered at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 6-14 2x4 - 2 rows staggered at 0-4-0 oc.
- 3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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Date:

October 30,2021

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810594
J21-4810-1	GT1	FLAT GIRDER	1	3	Job Reference (optional)	

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:28 2021 Page 2
ID:PoCx83uVfxostUvaB3rVEqyTTYc-Khoc33EYC1bVHBwBq6H_3_sCD9VbQxhzDyB0Z1yOrZ9

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2179 lb down at 0-1-12, 2133 lb down at 2-0-12, 2133 lb down at 4-0-12, 2133 lb down at 6-0-12, 2133 lb down at 8-0-12, 2133 lb down at 10-0-12, 2111 lb down at 12-0-12, 2111 lb down at 14-0-12, 2111 lb down at 16-0-12, 2111 lb down at 18-0-12, 2111 lb down at 20-0-12, 2111 lb down at 22-0-12, 2111 lb down at 24-0-12, 2111 lb down at 26-0-12, 2111 lb down at 28-0-12, 2111 lb down at 30-0-12, 2111 lb down at 32-0-12, and 2111 lb down at 34-0-12, and 2111 lb down at 36-0-12 on top chord, and 267 lb down and 260 lb up at 0-5-12, 260 lb down and 267 lb up at 1-11-12, 260 lb down and 267 lb up at 3-11-12, 260 lb down and 267 lb up at 5-11-12, 260 lb down and 267 lb up at 7-11-12, and 260 lb down and 267 lb up at 9-11-12, and 260 lb down and 267 lb up at 11-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-10=-80, 11-17=-20

Concentrated Loads (lb)

Vert: 1=-2179(F) 10=-4223(F) 6=-2111(F) 18=-2133(F) 19=-2133(F) 20=-2133(F) 22=-2133(F) 23=-2133(F) 24=-2111(F) 25=-2111(F) 26=-2111(F) 27=-2111(F) 28=-2111(F) 30=-2111(F) 31=-2111(F) 32=-2111(F) 33=-267(B) 34=-260(B) 35=-260(B) 36=-260(B) 37=-260(B) 38=-260(B) 39=-260(B)

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810595
J21-4810-1	GT2	FLAT GIRDER	1	2	Job Reference (optional)	

DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:29 2021 Page 1
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Scale = 1:57.1

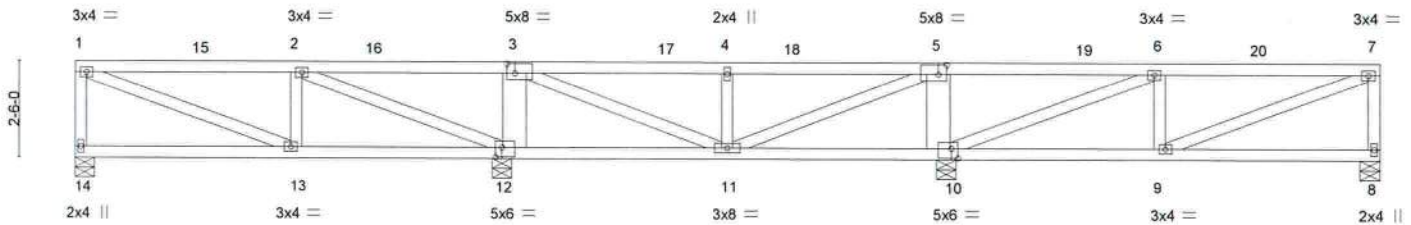


Plate Offsets (X,Y)--	[3:0-2-8,0-3-0], [5:0-2-8,0-3-0], [10:0-2-0,0-3-0], [12:0-2-0,0-3-0]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.01	8-9	>999	360	MT20	244/190
TCDL 20.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.03	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.01	13	>999	240	Weight: 350 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
3-12,5-10: 2x8 SP No.2

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

REACTIONS. All bearings 0-6-0.
(lb) - Max Horz 14=72(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 14, 8, 12, 10
Max Grav All reactions 250 lb or less at joint(s) except 14=445(LC 1), 8=445(LC 1), 12=1218(LC 1), 10=1218(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-389/163, 1-2=-537/164, 2-3=-127/380, 3-4=-366/120, 4-5=-366/120, 5-6=-129/380, 6-7=-537/182, 7-8=-389/156
BOT CHORD 12-13=-199/537, 11-12=-275/114, 10-11=-273/112, 9-10=-173/537
WEBS 1-13=-171/522, 2-12=-993/314, 3-12=-721/294, 7-9=-151/522, 5-10=-721/295, 6-10=-993/295, 3-11=-182/690, 4-11=-417/213, 5-11=-183/690

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 30-4-13, Corner(3) 30-4-13 to 33-4-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8, 12, 10.

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Date:

October 30,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810596
J21-4810-1	GT3	FLAT GIRDER	1	3	Job Reference (optional)	

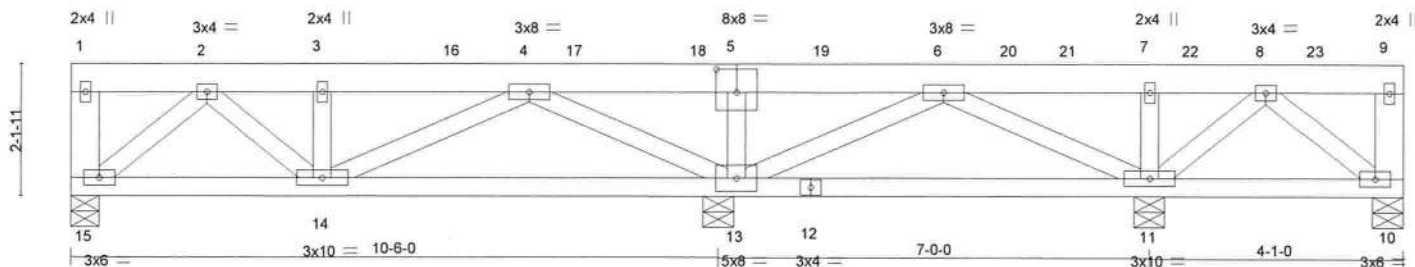
DJ Trusses Unlimited, Inc., Lakeland, FL 33803

8 520 s Aug 27 2021 MiTek Industries, Inc. Sat Oct 30 23:42:36 2021 Page 1

ID:PoCx83uVfostUvaB3rVEqyTTYc-yYUnMvQ8uRvzrbowTeuUeVGWolcBu9odboKKhvyO4IH

2-2-6	4-1-0	7-5-4	10-9-8	14-1-12	17-6-0	19-4-10	21-7-0
2-2-6	1-10-10	3-4-4	3-4-4	3-4-4	3-4-4	1-10-10	2-2-6

Scale = 1:36.0



THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.

4-1-0	10-3-0	10-9-8	14-1-12	17-3-0	17-6-0	21-7-0
4-1-0	6-2-0	0-6-8	3-4-4	3-1-4	0-3-0	4-1-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	-0.03	14	>999	360	MT20
TCDL 20.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.08	13-14	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.03	10	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.00	14	>999	240	
									Weight: 388 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 "Except"
1-15,9-10: 2x6 SP No.2

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

REACTIONS. All bearings 0-6-0 except (jt=length) 15=0-5-8.
(lb) - Max Horz 15=57(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 15=6611(LC 1), 10=5457(LC 1), 13=11922(LC 1), 11=6498(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2521/0, 2-3=-6955/0, 3-16=-6955/0, 4-16=-6955/0, 4-17=0/4041, 17-18=0/4041, 5-18=0/4041, 5-19=0/4041, 6-19=0/4041, 6-20=0/1507, 20-21=0/1507, 7-21=0/1507, 7-22=0/1507, 8-22=0/1507, 9-10=-5183/0
BOT CHORD 14-15=0/4629, 13-14=0/4818, 12-13=0/526, 11-12=0/526, 10-11=0/353
WEBS 3-14=-3271/0, 4-14=0/2415, 4-13=-10011/0, 5-13=-4667/0, 8-11=-2548/0, 8-10=-363/0, 6-11=-2297/0, 2-15=-6011/0, 2-14=0/3187, 7-11=-3593/0, 6-13=-5161/0

- NOTES-**
- 1) n/a
 - 2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc, Except member 1-5 2x6 - 3 rows staggered at 0-4-0 oc, member 5-9 2x6 - 3 rows staggered at 0-4-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
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Date:

October 30,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek

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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Burger King LC-3	T25810596
J21-4810-1	GT3	FLAT GIRDER	1	3	Job Reference (optional)	

DJ Trusses Unlimited, Inc., Lakeland, FL 33803

8.520 s Aug 27 2021 MiTek Industries, Inc. Sat Oct 30 23:42:37 2021 Page 2
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NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2183 lb down at 0-2-12, 2183 lb down at 2-2-4, 2183 lb down at 4-2-4, 2183 lb down at 6-2-4, 2183 lb down at 8-2-4, 2183 lb down at 10-2-4, 2183 lb down at 12-2-4, 2183 lb down at 14-2-4, 2183 lb down at 16-2-4, 2183 lb down at 18-2-4, 2183 lb down at 20-2-4, 2183 lb down at 22-2-4, 2183 lb down at 24-2-4, and 1928 lb down and 227 lb up at 26-2-4, and 1928 lb down and 227 lb up at 28-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-9=-80, 10-15=-20

Concentrated Loads (lb)

Vert: 1=-2183(F) 9=-4365(F) 3=-2183(F) 6=-2183(F) 2=-2183(F) 16=-2183(F) 17=-2183(F) 18=-2183(F) 19=-2183(F) 21=-2183(F) 22=-2183(F) 23=-2183(F)



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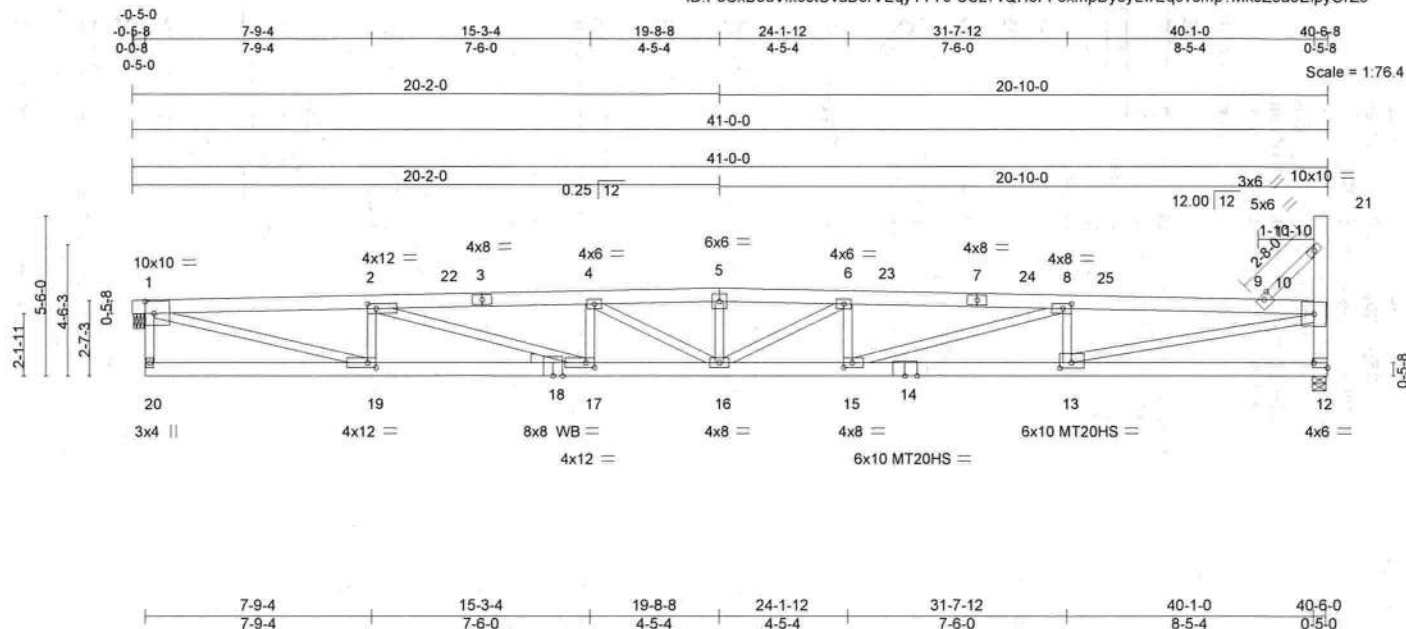
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Job J21-4810-1	Truss H	Truss Type COMMON	Qty 1	Ply 1	Burger King LC-3	T25810597
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DJ Trusses Unlimited, Lakeland, FL - 33803,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 28 15:10:32 2021 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.87	Vert(LL)	-0.59	16	>820	360	MT20 244/190
TCDL 20.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-1.47	15-16	>328	240	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	-0.06	12	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.41	16	>999	240	Weight: 284 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
9-11: 2x4 SP No.3
BOT CHORD 2x6 SP M 24
WEBS 2x4 SP No.3 *Except*
1-19,10-13: 2x4 SP No.1, 12-21: 2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-4-8, 12=0-5-8
Max Horz 1=190(LC 11)
Max Uplift 1=150(LC 12), 12=147(LC 12)
Max Grav 1=2008(LC 1), 12=2008(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5496/580, 2-4=-7685/764, 4-5=-7827/773, 5-6=-7827/773, 6-8=-7889/783,
8-9=-5970/625, 9-10=-6159/648, 10-12=-1875/215, 10-11=-282/118, 9-11=-145/340
BOT CHORD 17-19=-470/5489, 16-17=-649/7676, 15-16=-668/7881, 13-15=-515/5965, 12-13=-63/484
WEBS 1-19=-473/5553, 2-19=-1375/234, 2-17=-197/2289, 4-17=-563/133, 6-15=-464/134,
8-15=-209/2005, 8-13=-1238/229, 10-13=-466/5645

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 40-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 1 and 147 lb uplift at joint 12.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
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Date:

October 30,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

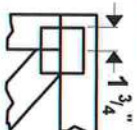
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



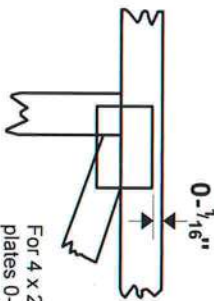
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Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

— This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MITek 20/20** software or upon request.

PLATE SIZE

4 X 4

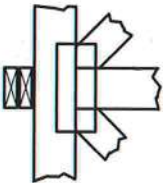
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



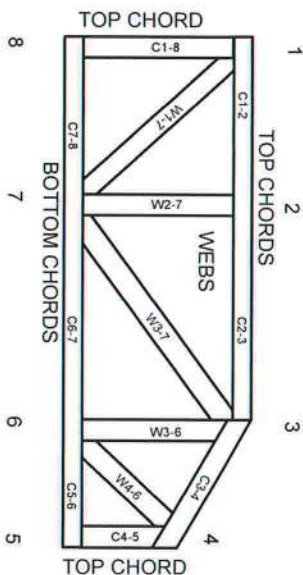
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR-1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 1 bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.