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

RE: 3236478 - BLAKE CONST. - PLATT RES.

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

Site Information:

Customer Info: BLAKE CONST. Project Name: Platt Res. Model: Custom
Lot/Block: N/A Subdivision: NA
Address: TBD, TBD
City: Columbia Cty 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: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 4 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.

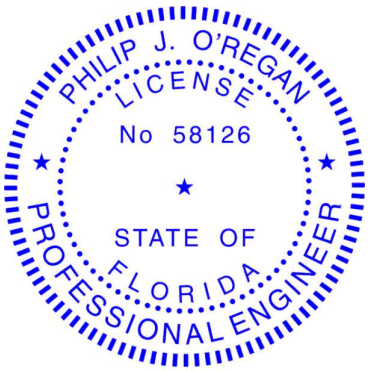
No.	Seal#	Truss Name	Date
1	T29157711	T02	11/7/22
2	T29157712	T02G	11/7/22
3	T29157713	T04A	11/7/22
4	T29157714	T05	11/7/22

This item has been electronically signed and sealed by ORegan, 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 Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, 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 Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

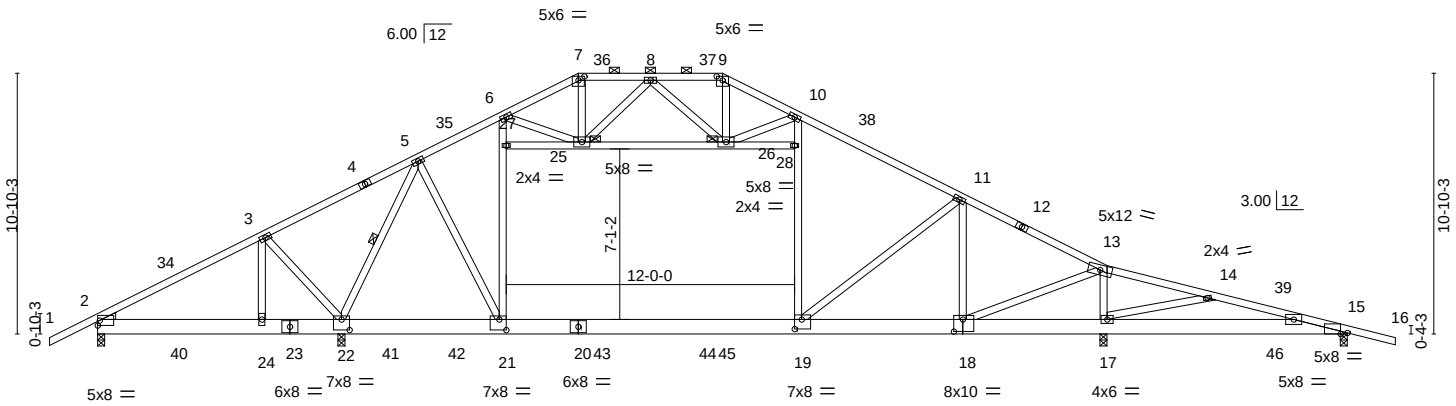
November 7,2022

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - PLATT RES.
3236478	T02	ROOF TRUSS	9	1	T29157711
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 08:55:43 2022 Page 1
ID:MRUpuoKKMqHFlytM1PC4d7zYSsJ-9wRxACqXQeAX4FcXBsiaWeSSS8_Co22V7ek?wOyLdEE

-2-0-0	6-10-0	13-4-0	17-0-0	20-0-0	23-0-0	26-0-0	29-0-0	31-4-0	36-0-0	42-0-1	46-2-3	52-0-0	54-0-0
2-0-0	6-10-0	6-6-0	3-8-0	3-0-0	3-0-0	3-0-0	3-0-0	2-4-0	4-8-0	6-0-1	4-2-1	5-9-13	2-0-0

Scale: 1/8"=1'



6-10-0	10-1-12	17-0-0	20-0-0	26-0-0	29-0-0	36-0-0	41-10-4	42-0-1	52-0-0
6-10-0	3-3-12	6-10-4	3-0-0	6-0-0	3-0-0	7-0-0	5-10-4	0-1-13	9-11-15

Plate Offsets (X,Y)-- [7:0-3-0,0-2-0], [9:0-3-0,0-2-0], [15:0-3-6,Edge], [18:0-4-8,0-6-0], [19:0-3-8,0-4-12], [21:0-3-8,0-5-4], [22:0-4-0,0-5-4]

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	0.47	Vert(LL)	-0.23	19-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.38	19-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	17	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.17	19-21	856	360	Weight: 395 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
27-28,6-21,10-19,13-18: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except 2-0-0 oc purlins (5-9-1 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18,15-17.
WEBS 1 Row at midpt 5-22
JOINTS 1 Brace at Jt(s): 25, 26

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=166(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-139(LC 13), 22=-224(LC 12), 17=-284(LC 13), 15=-280(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=982(LC 2), 22=1712(LC 26), 17=2673(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1324/608, 3-5=-1110/363, 5-6=-2018/730, 6-7=-1180/460, 7-8=-1038/434, 8-9=-1045/432, 9-10=-1239/475, 10-11=-2070/687, 11-13=-1444/326, 13-14=-487/1222, 14-15=-216/863
BOT CHORD 2-24=-422/1125, 22-24=-422/1125, 21-22=-280/1455, 19-21=-346/1779, 18-19=-131/1275, 17-18=-1290/590, 15-17=-786/243
WEBS 3-24=-339/215, 3-22=-435/520, 5-22=-1548/558, 5-21=-199/777, 7-25=-132/430, 9-26=-148/442, 11-18=-1011/512, 13-17=-2091/646, 14-17=-492/319, 25-26=-727/235, 21-27=-221/591, 6-27=-148/600, 19-28=-144/611, 10-28=-72/618, 6-25=-793/299, 10-26=-844/326, 11-19=-275/707, 13-18=-776/2679

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-2-6, Interior(1) 3-2-6 to 20-0-0, Exterior(2R) 20-0-0 to 25-2-7, Interior(1) 25-2-7 to 26-0-0, Exterior(2R) 26-0-0 to 31-2-7, Interior(1) 31-2-7 to 54-0-0 zone; porch 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 3x6 MT20 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, with BCDL = 10.0psf.
8) Ceiling dead load (5.0 psf) on member(s). 25-27, 25-26, 26-28; Wall dead load (5.0psf) on member(s).21-27, 19-28
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21

Continued on page 2

This item has been electronically signed and sealed by ORegan, 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 Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 7,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 2, 224 lb uplift at joint 22, 284 lb uplift at joint 17 and 280 lb uplift at joint 15.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - PLATT RES.
3236478	T02G	ROOF TRUSS	1	1	T29157712
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 08:55:48 2022 Page 1
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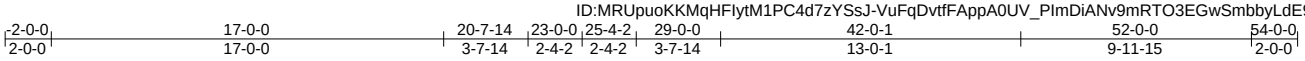

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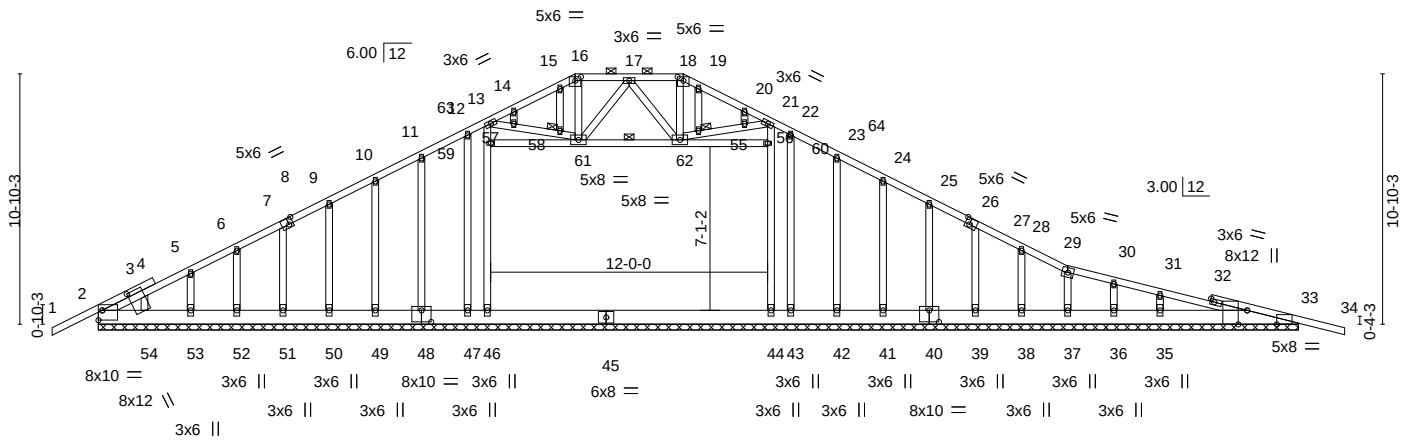

Plate Offsets (X,Y)-- [2:Edge,0-5-1], [8:0-2-4,0-3-4], [16:0-3-0,0-2-0], [18:0-3-0,0-2-0], [26:0-2-4,0-3-4], [33:1-3-7,Edge], [33:0-7-4,Edge], [40:0-5-0,0-6-0], [48:0-5-0,0-6-0], [54:0-1-15,1-3-3]

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	0.23	Vert(LL)	-0.01	34	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.01	34	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	33	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 436 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 16-18.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 59-60
JOINTS	1 Brace at Jt(s): 55, 58

REACTIONS. All bearings 52-0-0.
(lb) - Max Horz 2=164(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 36, 37, 38, 39, 40, 41, 42, 54, 53, 52, 51, 50, 49, 48 except 33=-138(LC 9), 43=-971(LC 18), 47=-971(LC 18)
Max Grav All reactions 250 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 54, 53, 52, 51, 50, 49, 48 except 33=329(LC 1), 2=274(LC 1), 35=469(LC 2), 46=1575(LC 18), 44=1575(LC 18)

TRUSS DESIGNED FOR WIND LOADS IN THE PLANE OF THE TRUSS ONLY. FOR STUDS EXPOSED TO WIND (NORMAL TO THE FACE), SEE STANDARD INDUSTRY GABLE END DETAILS AS APPLICABLE, OR CONSULT QUALIFIED BUILDING DESIGNER AS PER ANSI/TPI 1.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-14=-482/291, 14-15=-466/312, 15-16=-398/318, 16-17=-395/322, 17-18=-395/296, 18-19=-398/305, 19-20=-466/301, 20-21=-482/287
WEBS 31-35=-257/117, 46-59=-461/217, 13-59=-377/225, 44-60=-461/167, 21-60=-377/176, 61-62=-73/355, 55-62=-20/331, 55-56=-23/321, 21-56=-26/329, 13-57=-54/328, 57-58=-48/320, 58-61=-41/330

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 3-2-6, Exterior(2N) 3-2-6 to 20-7-14, Corner(3E) 20-7-14 to 25-4-2, Corner(3R) 25-4-2 to 30-6-8, Exterior(2N) 30-6-8 to 54-0-0 zone;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 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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, with BCDL = 10.0psf.
9) Ceiling dead load (5.0 psf) on member(s). 59-61, 61-62, 60-62; Wall dead load (5.0psf) on member(s).46-59, 44-60
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 35, 36, 37, 38, 39, 40, 41, 42, 54, 53, 52, 51, 50, 49, 48 except (jt=lb) 33=138, 43=971, 47=971.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

This item has been electronically signed and sealed by ORegan, 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 Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 7,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - PLATT RES.
3236478	T04A	Piggyback Base	2	1	T29157713
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 08:55:50 2022 Page 1
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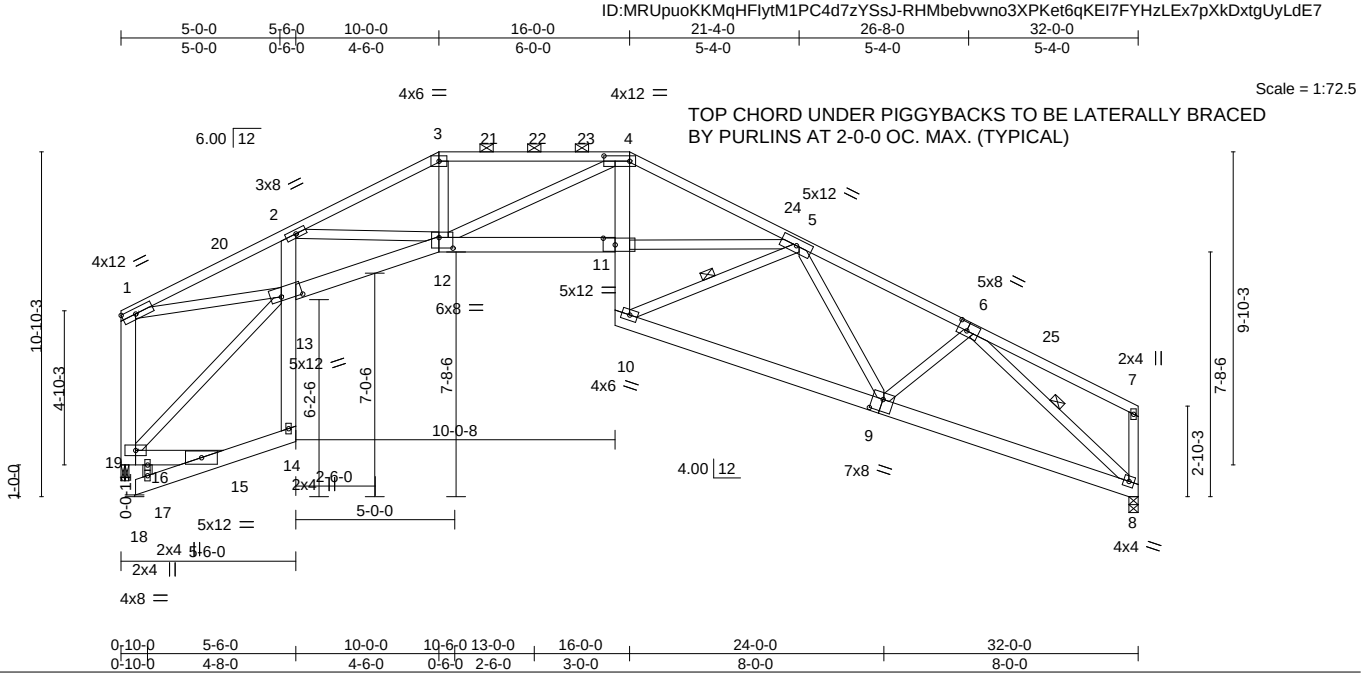

Plate Offsets (X,Y)-- [4:0-9-12,0-2-0], [6:0-3-8,0-3-0], [9:0-4-0,0-4-8], [11:0-4-8,0-2-8], [12:0-5-4,0-4-0], [13:0-8-0,0-1-8]

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	0.94	Vert(LL)	-0.30	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.55	11	>686	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.74	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 253 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
4-10,1-19,2-14: 2x6 SP No.2, 5-11: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-15 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 15-17.
10-0-0 oc bracing: 16-19
WEBS 1 Row at midpt 5-10, 6-8

REACTIONS. (size) 8=0-3-8, 19=0-3-0
Max Horz 19=-178(LC 13)
Max Uplift 8=-253(LC 13), 19=-221(LC 12)
Max Grav 8=1168(LC 1), 19=1175(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2957/577, 2-3=-3264/526, 3-4=-2864/499, 4-5=-3406/543, 5-6=-2065/450, 1-19=-1088/252
BOT CHORD 9-10=-318/2028, 8-9=-316/1598, 11-12=-337/3358, 12-13=-530/2853
WEBS 3-12=-109/1151, 4-12=-691/283, 10-11=-197/1453, 4-11=-181/1478, 5-10=-1762/277, 5-9=-262/74, 6-9=0/415, 6-8=-2038/399, 2-13=-425/146, 1-13=-463/2589, 5-11=-250/2680, 2-12=-135/347

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-5-2, Interior(1) 3-5-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-6-5, Interior(1) 14-6-5 to 16-0-0, Exterior(2R) 16-0-0 to 20-6-5, Interior(1) 20-6-5 to 31-10-4 zone;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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 8, 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=253, 19=221.
9) 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 ORegan, 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 Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 7,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - PLATT RES.
3236478	T05	Attic	4	1	T29157714
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Nov 7 08:55:51 2022 Page 1
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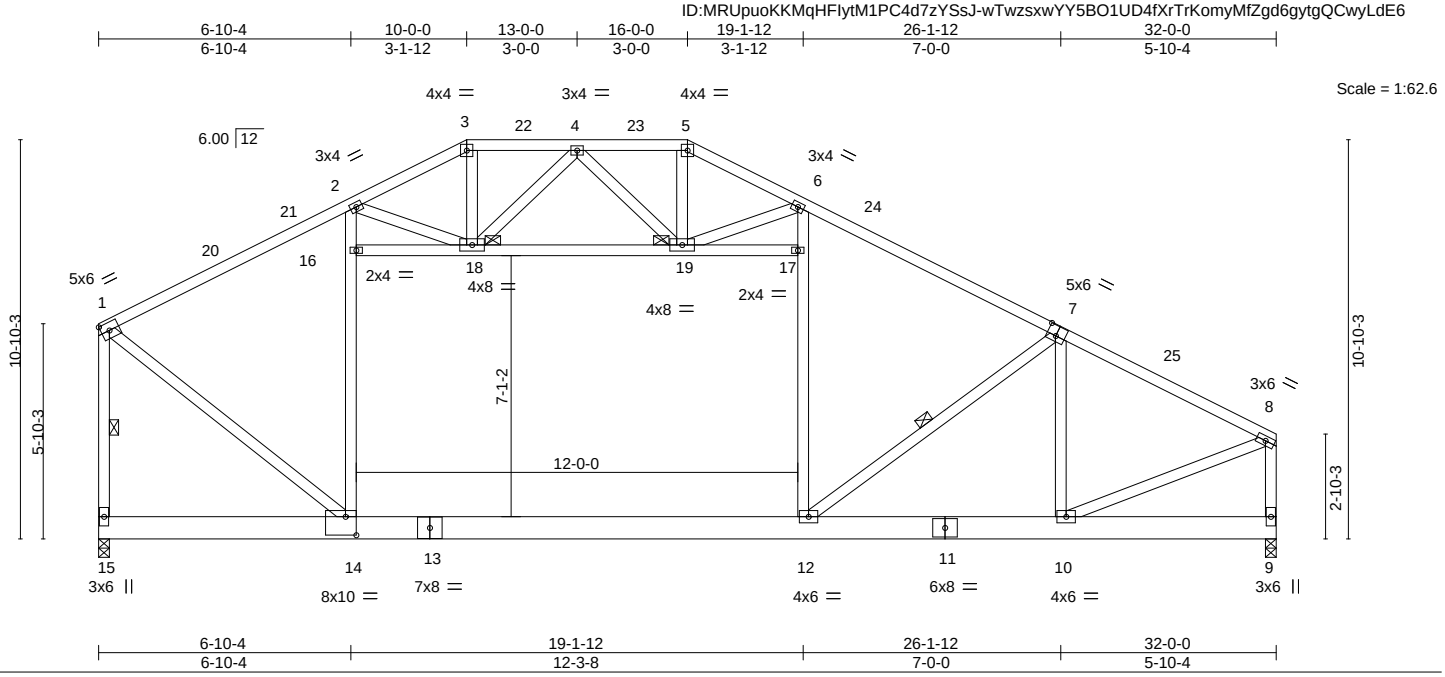


Plate Offsets (X,Y)-- [7:0-3-0,0-3-4], [14:0-3-8,0-6-0]

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)	-0.44	12-14	>869	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.77	12-14	>493	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.30	12-14	484	360	Weight: 273 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-14,6-12: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-12, 1-15
JOINTS 1 Brace at Jt(s): 18, 19

REACTIONS. (size) 15=0-3-8, 9=0-3-8
Max Horz 15=-177(LC 13)
Max Uplift 15=-2(LC 12), 9=-97(LC 13)
Max Grav 15=1762(LC 2), 9=1524(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1696/30, 2-3=-986/108, 3-4=-830/105, 4-5=-977/116, 5-6=-1094/116, 6-7=-1805/38, 7-8=-1731/125, 1-15=-2058/41, 8-9=-1489/130
BOT CHORD 12-14=0/1514, 10-12=-60/1515
WEBS 14-16=-216/370, 2-16=-138/379, 18-19=-584/0, 12-17=0/541, 6-17=0/550, 7-12=-271/299, 7-10=-383/42, 1-14=0/1917, 8-10=-53/1612, 3-18=-28/406, 5-19=-15/343, 4-18=-252/87, 2-18=-570/6, 6-19=-796/27

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-6-5, Interior(1) 14-6-5 to 16-0-0, Exterior(2R) 16-0-0 to 20-6-5, Interior(1) 20-6-5 to 31-10-4 zone;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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 16-18, 18-19, 17-19; Wall dead load (5.0psf) on member(s).14-16, 12-17
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9.
10) Attic room checked for L/360 deflection.

This item has been electronically signed and sealed by ORegan, 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.

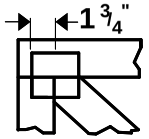
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 7,2022

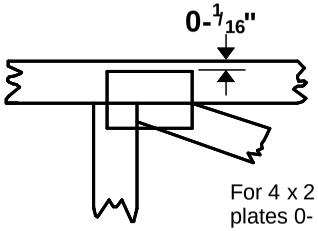
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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.

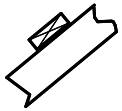
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

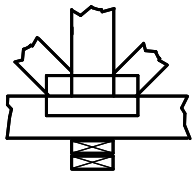
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

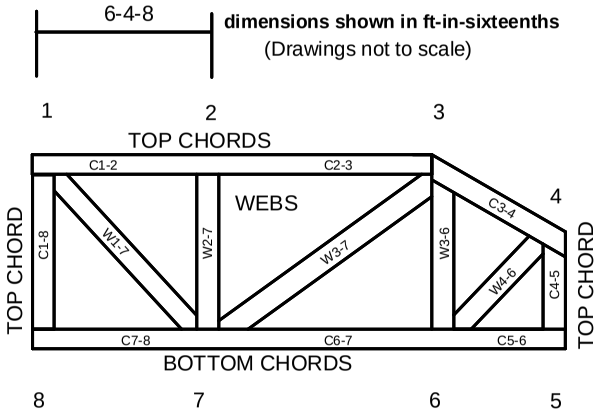


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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



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, ESR1988
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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek Engineering Reference Sheet: MII-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 I 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.

21.The design does not take into account any dynamic or other loads other than those expressly stated.