



RE: 3574425 - IC CONST - URRUTIA RES.

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

Site Information:
Customer Info: IC CONSTRUCTION Project Name: Urrutia Res. Model: Custom

Lot/Block: 1 Subdivision: Lakewood Estates

Address: TBD, TBD

a. . =

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: 55.0 psf

This package includes 35 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T30878293	EJ01	6/23/23	15	T30878307	T07	6/23/23
2	T30878294	EJ02	6/23/23	16	T30878308	T07G	6/23/23
3	T30878295	PB01	6/23/23	17	T30878309	T08G	6/23/23
4	T30878296	PB01G	6/23/23	18	T30878310	T09	6/23/23
5	T30878297	PB02	6/23/23	19	T30878311	T09G	6/23/23
6	T30878298	PB02G	6/23/23	20	T30878312	T10_	6/23/23
7	T30878299	T01_	6/23/23	21	T30878313	<u>T</u> 10G	6/23/23
8	T30878300	<u>T</u> 01G	6/23/23	22	T30878314	<u>T11</u>	6/23/23
9	T30878301	T02	6/23/23	23	T30878315	T12	6/23/23
10	T30878302	<u>T</u> 03	6/23/23	24	T30878316	<u>T13</u>	6/23/23
11	T30878303	T04_	6/23/23	25	T30878317	T17_	6/23/23
12	T30878304	<u>T04</u> G	6/23/23	26	T30878318	<u>T</u> 17G	6/23/23
13	T30878305	<u>T</u> 05	6/23/23	27	T30878319	<u>T</u> 18	6/23/23
14	T30878306	T06	6/23/23	28	T30878320	T19	6/23/23

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

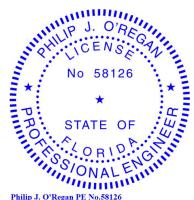
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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, 2025.

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



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



RE: 3574425 - IC CONST - URRUTIA RES.

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Site Information:

Customer Info: IC CONSTRUCTION Project Name: Urrutia Res. Model: Custom

Lot/Block: 1 Subdivision: Lakewood Estates Address: TBD, TBD

City: Columbia Cty State: FL

 No.
 Seal#
 Truss Name
 Date

 29
 T30878321
 TF01
 6/23/23

 30
 T30878322
 TF01G
 6/23/23

 31
 T30878323
 TF02
 6/23/23

 32
 T30878324
 TF03
 6/23/23

 33
 T30878325
 TF04
 6/23/23

 34
 T30878326
 TF05
 6/23/23

 35
 T30878327
 TG01
 6/23/23

Job Truss Truss Type Qty IC CONST - URRUTIA RES. T30878293 EJ01 10 3574425 Monopitch Job Reference (optional) 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:03 2023 Page 1 Builders FirstSource, Lake City, FL 32055 ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-?xsGTQtD1DxVwK0nAk4xw7DsfLBPGnxKk1dhkqz3quY

8-0-0 8-0-0

Scale = 1:18.1

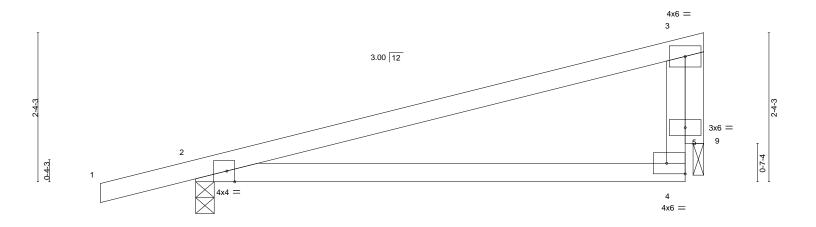


Plate Off	sets (X,Y)	[2:0-1-8,Edge], [4:Edge,0	-2-0]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.29	4-8	>329	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	0.25	4-8	>385	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MR						Weight: 31 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2

2x4 SP No.3 WEBS 2x4 SP No.3 OTHERS

REACTIONS.

(size) 2=0-3-8, 9=0-2-0 Max Horz 2=82(LC 8)

-1-6-0

1-6-0

Max Uplift 2=-197(LC 8), 9=-134(LC 8) Max Grav 2=381(LC 1), 9=260(LC 1)

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

TOP CHORD 2-3=-222/252, 4-5=-255/151, 3-5=-255/151

BOT CHORD 2-4=-299/188 WEBS 3-9=-279/437

- 1) 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-6-12 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2 and 134 lb uplift at joint 9.

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:

June 23,2023



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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 7-6-8 oc bracing.

except end verticals.

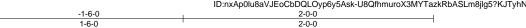


Builders FirstSource, Lake City, FL 32055

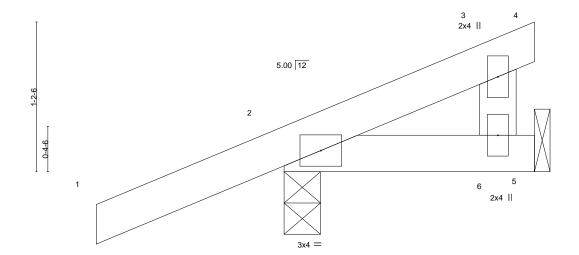


Structural wood sheathing directly applied or 2-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



Scale = 1:9.2



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MP	, ,					Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 5=Mechanical

Max Horz 2=46(LC 12)

Max Uplift 2=-66(LC 8), 5=-11(LC 12) Max Grav 2=184(LC 1), 5=46(LC 3)

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

- 1) 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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2 and 11 lb uplift at joint 5.

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Truss Job Truss Type Qty IC CONST - URRUTIA RES. T30878295 PIGGYBACK 3574425 PB01 26 Job Reference (optional) 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:04 2023 Page 1 Builders FirstSource, Lake City, FL 32055 ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-U8QfhmuroX3MYTazkRbASLm73lff?JtTyhNFGGz3quX 8-3-0 Scale = 1:22 0 4x4 =3 10.00 12 4 0-4-13 0-4-13 5 0-1-10 6 2x4 || 4-1-8 8-3-0 4-1-8 4-1-8 Plate Offsets (X,Y)--[2:0-2-1,0-1-0], [4:0-2-1,0-1-0] LOADING (psf) CSI. DEFL. GRIP SPACING-**PLATES** (loc) I/defI I/d TC BC 4-5 244/190 TCLL 20.0 Plate Grip DOL 1.25 0.17 Vert(LL) -0.00n/r 120 MT20 TCDL 7.0 Lumber DOL 1.25 0.12 Vert(CT) 0.00 4-5 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) -0.00 6 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 30 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

(size) 2=6-6-3, 6=6-6-3

Max Horz 2=-71(LC 10) Max Uplift 2=-87(LC 24), 6=-112(LC 13) Max Grav 2=87(LC 23), 6=559(LC 1)

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

TOP CHORD 2-3=-119/258, 3-4=-110/264

WEBS 3-6=-448/287

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) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 4-1-8, Exterior(2R) 4-1-8 to 7-1-8, Interior(1) 7-1-8 to 8-0-2 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 2 and 112 lb uplift at joint 6.
- 7) n/a
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

June 23,2023



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

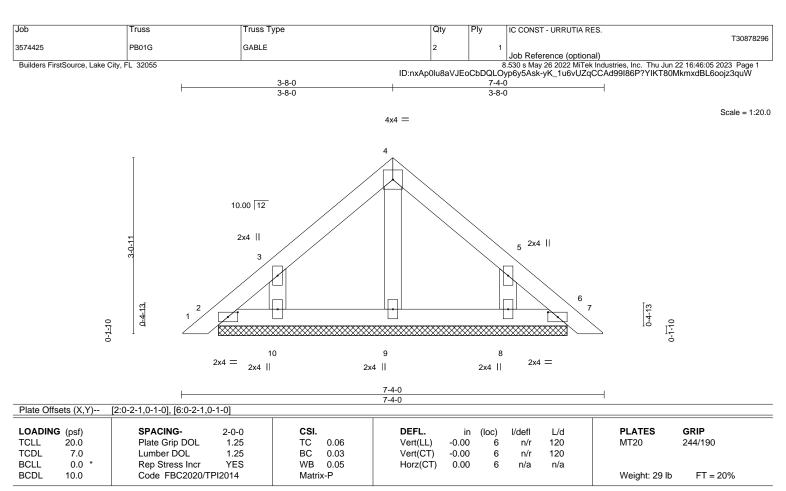
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



Structural wood sheathing directly applied or 8-3-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

(lb) -

REACTIONS. All bearings 6-0-9.

Max Horz 2=63(LC 11) Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

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) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-5, Interior(1) 6-8-5 to 7-1-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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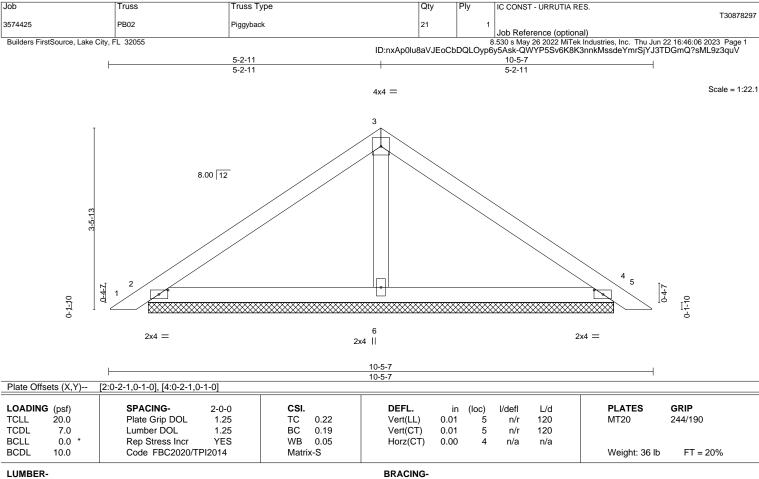
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

REACTIONS.

(size) 2=8-11-3, 4=8-11-3, 6=8-11-3

Max Horz 2=73(LC 11)

Max Uplift 2=-53(LC 12), 4=-63(LC 13), 6=-45(LC 12) Max Grav 2=189(LC 1), 4=189(LC 1), 6=336(LC 1)

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

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) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 5-2-11, Exterior(2R) 5-2-11 to 8-2-11, Interior(1) 8-2-11 to 10-2-1 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) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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June 23,2023

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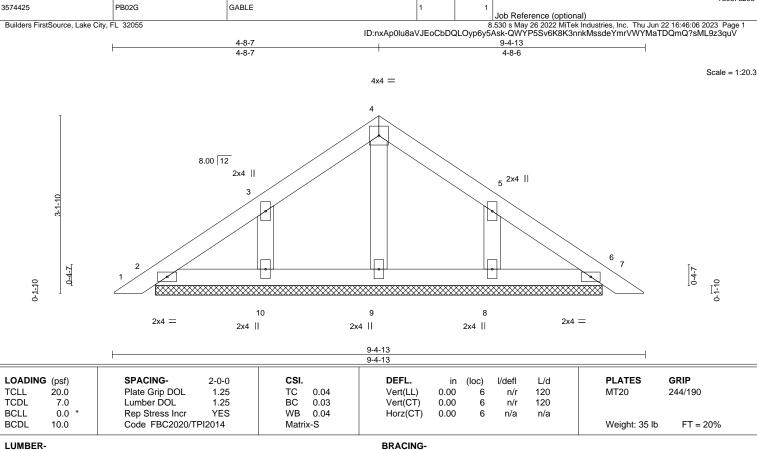
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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



TOP CHORD

BOT CHORD

Qty

IC CONST - URRUTIA RES

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

T30878298

LUMBER-TOP CHORD

Job

Truss

2x4 SP No.2 2x4 SP No.2

BOT CHORD OTHERS 2x4 SP No.3

REACTIONS. All bearings 7-10-9. (lb) - Max Horz 2=-65(LC 10)

> Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- 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) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 4-8-7, Exterior(2R) 4-8-7 to 7-8-7, Interior(1) 7-8-7 to 9-1-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI =1 60

Truss Type

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

June 23,2023

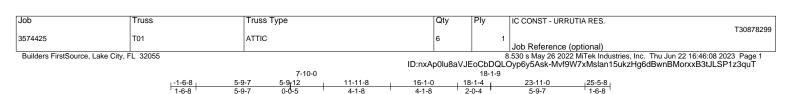


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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





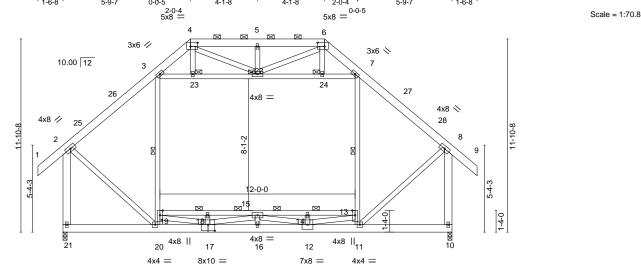


Plate Offsets (X,Y)	[4:0-5-4,0-2-12], [6:0-5-4,0-2-12], [17:0	5-0,0-4-8]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL) 0.14 20 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 1.00	Vert(CT) -0.19 15 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.02 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.09 13-19 1640 360	Weight: 279 lb FT = 20%

15-0-6

3-0-14

TOP CHORD

BOT CHORD

WEBS

JOINTS

23-11-0

5-9-12

2-4-0 oc bracing: 13-19

1 Row at midpt 1 Brace at Jt(s): 22, 23, 24

Structural wood sheathing directly applied or 6-0-0 oc purlins,

3-19, 7-13

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

11-11-8

3-0-1

LUMBER-**BRACING-**

5-9-12

5-9-12

8-10-10

3-0-14

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except*

13-19: 2x4 SP No.3 2x4 SP No.3 *Except* WEBS

2-21.8-10: 2x6 SP No.2

(size) 21=0-3-0, 10=0-3-0 REACTIONS.

Max Horz 21=-335(LC 10)

Max Grav 21=1577(LC 2), 10=1577(LC 2)

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

TOP CHORD 2-3=-1109/10, 3-4=-566/135, 4-5=-661/203, 5-6=-661/203, 6-7=-566/135, 7-8=-1109/10,

2-21=-1564/27, 8-10=-1564/28

BOT CHORD 20-21=-330/305, 17-20=-102/933, 16-17=0/3001, 12-16=0/3001, 11-12=0/815,

18-19=-1564/0, 15-18=-1551/0, 14-15=-1548/0, 13-14=-1548/0

WEBS 19-20=-455/10, 3-19=-108/398, 11-13=-456/10, 7-13=-108/398, 3-23=-567/79, 22-23=-557/80, 22-24=-558/80, 7-24=-567/79, 2-20=-8/1127, 8-11=-9/1128,

4-22=-234/346, 6-22=-234/346, 17-18=-397/0, 17-19=0/1655, 15-17=-823/96,

12-14=-397/0, 12-15=-807/73, 12-13=0/1640

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 11-11-8, Interior(1) 11-11-8 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 25-5-8 zone; 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 2x4 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.
- 8) Ceiling dead load (5.0 psf) on member(s). 3-23, 22-23, 22-24, 7-24; Wall dead load (5.0 psf) on member(s).3-19, 7-13
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 15-18, 14-15, 13-14
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Attic room checked for L/360 deflection.

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

June 23,2023

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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



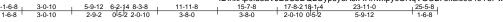
Chesterfield, MO 63017

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:10 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-IHnwxpycONqVGO275iiaic0849Y5PwpMLdqZUwz3quR

Scale = 1:70.6



5x8 = 5x8 = 10.00 12 9 10 30 31 4x8 =3x4 // 3x4 📏 5x12 || 5x12 | 8-1-2 13 12-0-0 1-4-0 4x8 ∠ ⊠ 50 51 **⊠** 27 ⁴⁴21 26 24 47 45 46 16 152 22 19 4x8 3x4 = 11 7x8 = 4x8 = 3x4 =

	3-0-10	5-9-12	6-7-4 8-10-10	11-11-8	15-0-6	17-3-12 18-1-4	23-11-0	
	3-0-10	2-9-2	0-9-8 2-3-6	3-0-14	3-0-14	2-3-6 0-9-8	5-9-12	
10.0 7 4 0 4 01 10.0 5 4	0.0401 [0.0	F 400	401 [40:0 7 4 6	0.001	4 0 0 4 01			

Plate Oil	sets (X,Y)	[2:0-7-4,0-1-8], [6:0-5-4,0-	-2-12], [8:0-5-4	·,U-Z-1Z], [1Z	::0-7-4,0-1-8]	<u> , [22:0-4-0,0-4-8]</u>						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.06	20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.11	20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS	Attic	-0.06	17-25	2412	360	Weight: 315 lb	FT = 20%

LUMBER-**BRACING-**

2x6 SP No.2 *Except* TOP CHORD TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals, and sheathed or

1-3,11-13: 2x4 SP No.2 6-0-0 oc purlins: 4-5, 9-10.

Rigid ceiling directly applied or 10-0-0 oc bracing. Except: **BOT CHORD** 2x6 SP No.2 *Except* **BOT CHORD**

5-6-0 oc bracing: 17-25 17-25: 2x4 SP No.2 WEBS 2x4 SP No.3 *Except* WEBS 1 Row at midpt

4-25, 10-17 2-27,12-14: 2x6 SP No.2 **JOINTS** 1 Brace at Jt(s): 2, 6, 8, 12, 29, 30, 31

REACTIONS. All bearings 0-5-8 except (jt=length) 24=0-3-8, 16=0-3-8. (lb) -Max Horz 27=328(LC 27)

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 24, 16 except 27=-135(LC 24),

14=-106(LC 25)

All reactions 250 lb or less at joint(s) except 27=601(LC 1), 14=600(LC 1), Max Grav

24=1334(LC 34), 16=1311(LC 35)

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

TOP CHORD 2-4=-313/135, 4-5=-386/149, 5-6=-487/108, 6-7=-596/171, 7-8=-596/171, 8-9=-487/108,

9-10=-387/148, 10-12=-313/137, 2-27=-532/158, 12-14=-532/129

BOT CHORD $26-27 = -304/286,\ 24-26 = -140/290,\ 22-24 = -140/290,\ 21-22 = 0/1879,\ 19-21 = 0/1879,$

16-19=-112/269, 15-16=-112/269, 23-25=-998/0, 20-23=-984/0, 18-20=-981/0,

WEBS 25-26=-813/14, 4-25=-496/160, 15-17=-811/15, 10-17=-496/166, 6-29=-106/313,

8-29=-109/313, 20-21=-5/274, 22-23=-414/0, 22-25=-7/964, 20-22=-923/0,

18-19=-415/0, 19-20=-925/0, 17-19=0/948

NOTES-

OTHERS

DI + 0" + 0/10

- 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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-30, 29-30, 29-31, 9-31; Wall dead load (5.0 psf) on member(s). 4-25, 10-17
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-25, 20-23, 18-20, 17-18

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June 23,2023

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Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	
0574405	T040	CARLE	_			T30878300
3574425	T01G	GABLE	[1	'	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:10 2023 Page 2 ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-IHnwxpycONqVGO275iiaic0849Y5PwpMLdqZUwz3quR

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 16 except (jt=lb) 27=135, 14=106.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 21 lb up at 6-6-4, 26 lb down and 21 lb up at 8-6-4, 26 lb down and 21 lb up at 10-6-4, 26 lb down and 21 lb up at 11-11-8, 26 lb down and 21 lb up at 13-4-12, and 26 lb down and 21 lb up at 15-4-12, and 26 lb down and 21 lb up at 17-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 4-5=-64, 5-6=-54, 6-8=-54, 8-9=-54, 9-10=-64, 10-12=-54, 12-13=-54, 14-27=-20, 17-25=-40, 5-9=-10

Drag: 4-25=-10, 10-17=-10

Concentrated Loads (lb)

Vert: 21=-13(B) 24=-13(B) 16=-13(B) 43=-13(B) 44=-13(B) 45=-13(B) 46=-13(B)

Job Truss Truss Type Qty IC CONST - URRUTIA RES T30878301 ATTIC T02 3574425 Job Reference (optional) 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:11 2023 Page 1

Builders FirstSource, Lake City, FL 32055

ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-mULl99zE9gyMuYdJePDpFpYIRZqb8lyVZHZ60Mz3quQ

Structural wood sheathing directly applied or 6-0-0 oc purlins,

3-18, 7-12

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

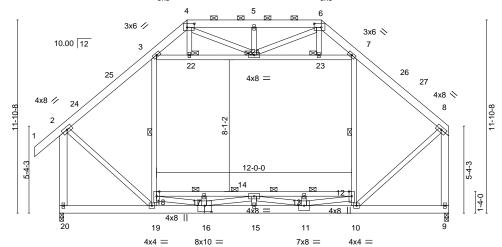
Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

2-4-0 oc bracing: 12-18

1 Row at midpt 1 Brace at Jt(s): 21, 22, 23



Scale = 1:70.8



5-9-12	8-10-10	11-11-8	15-0-6	18-1-4	23-11-0	i
5-9-12	3-0-14	3-0-14	3-0-14	3-0-14	5-9-12	\neg

Plate Offsets (X,Y)	[4:0-5-4,0-2-12], [6:0-5-4,0-2-12], [16:0-5	5-0,0-4-8]		
LOADING (psf) TCLL 20.0 TCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25	CSI. TC 0.29 BC 1.00	DEFL. in (loc) l/defl L/d Vert(LL) 0.13 10 >999 240 Vert(CT) -0.19 14 >999 180	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.79 Matrix-MS	Horz(CT) 0.02 9 n/a n/a Attic -0.09 12-18 1640 360	Weight: 274 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.2 2x6 SP No.2 *Except* **BOT CHORD**

12-18: 2x4 SP No.3 2x4 SP No.3 *Except*

WEBS 2-20.8-9: 2x6 SP No.2

REACTIONS. (size) 20=0-3-0, 9=0-3-0

Max Horz 20=-272(LC 10)

Max Grav 20=1580(LC 2), 9=1497(LC 2)

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

TOP CHORD 2-3=-1113/11, 3-4=-565/135, 4-5=-657/205, 5-6=-657/205, 6-7=-562/124, 7-8=-1108/0, 2-20=-1569/0, 8-9=-1480/0

BOT CHORD 16-19=-47/889, 15-16=0/3003, 11-15=0/3003, 10-11=0/825, 17-18=-1561/0,

14-17=-1548/0, 13-14=-1552/0, 12-13=-1552/0

WEBS 18-19=-454/17, 3-18=-107/399, 10-12=-467/30, 7-12=-118/395, 3-22=-557/82,

21-22=-548/83, 21-23=-563/82, 7-23=-572/81, 2-19=0/1115, 8-10=0/1094, 16-17=-397/0,

11-13=-397/0, 16-18=0/1653, 14-16=-806/62, 11-14=-789/67, 11-12=0/1642,

4-21=-221/345, 6-21=-227/345

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 11-11-8, Interior(1) 11-11-8 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 23-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 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.
- 8) Ceiling dead load (5.0 psf) on member(s). 3-22, 21-22, 21-23, 7-23; Wall dead load (5.0 psf) on member(s).3-18, 7-12
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 14-17, 13-14, 12-13
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Attic room checked for L/360 deflection.

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Job Truss Truss Type Qty IC CONST - URRUTIA RES T30878302 ATTIC GIRDER T03 3574425 Job Reference (optional)
8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:13 2023 Page 1

Builders FirstSource, Lake City, FL 32055

ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-jsT2Zr?VhlC47smimqFHKEeeHNfGcDoo1b2D4Fz3quO

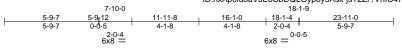
Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

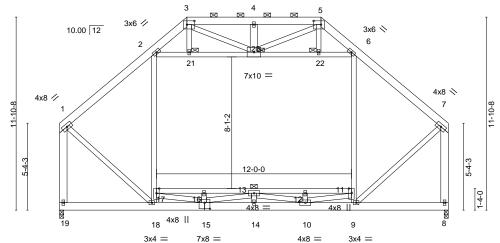
Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

6-0-0 oc bracing: 11-17

1 Brace at Jt(s): 20, 21, 22



Scale = 1:70.9



	5-9-12	8-10-10	11-11-8	15-1-6	18-1-4	23-11-0	1	
	5-9-12	3-0-14	3-0-14	3-1-14	2-11-14	5-9-12		
[2:0 = 0.0 2.42] [5:0 = 0.0 2.42] [45:0 4.0 0.4.0]								

Plate Offsets (A,) [3.0-3-6,0-2-12], [3.0-3-6,0-2-12], [13.0	-4-0,0-4-0]		
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 0.27	Vert(LL) 0.05 9 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.35	Vert(CT) -0.08 12-13 >999 180	
BCLL 0.0	* Rep Stress Incr NO	WB 0.76	Horz(CT) 0.01 8 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.03 11-17 4734 360	Weight: 812 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

Dieta Officata (V V)

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 *Except* 11-17: 2x4 SP No.2

2x4 SP No.3 *Except* WEBS

1-19,7-8,4-20: 2x6 SP No.2

REACTIONS. (size) 19=0-3-0, 8=0-3-0

Max Horz 19=-261(LC 6)

Max Uplift 19=-656(LC 8), 8=-659(LC 9)

Max Grav 19=3660(LC 1), 8=3660(LC 1)

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

TOP CHORD 1-2=-2727/547, 2-3=-4139/1199, 3-4=-8559/2569, 4-5=-8559/2569, 5-6=-4139/1194,

6-7=-2731/521, 1-19=-3624/658, 7-8=-3634/660

BOT CHORD 15-18=-515/2322, 14-15=-10/4114, 10-14=-10/4114, 9-10=-393/2243, 16-17=-1680/0,

13-16=-1669/0, 12-13=-1644/0, 11-12=-1644/0

WFBS 17-18=-1669/417, 2-17=-1377/645, 9-11=-1671/410, 6-11=-1377/618, 2-21=-806/1183,

20-21=-794/1179, 20-22=-815/1179, 6-22=-825/1183, 1-18=-553/2795, 7-9=-536/2797, 4-20=-4641/1438, 3-20=-1921/6013, 5-20=-1919/6013, 15-16=-398/0, 10-12=-401/0,

15-17=0/1659, 13-15=-793/126, 10-13=-821/115, 10-11=0/1623

NOTES-

1) 3-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.

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

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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; end vertical left 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 2x4 MT20 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) Ceiling dead load (5.0 psf) on member(s). 2-21, 20-21, 20-22, 6-22; Wall dead load (5.0 psf) on member(s).2-17, 6-11
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-17, 13-16, 12-13, 11-12

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:

June 23,2023

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 chore 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

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	
3574425	Т03	ATTIC GIRDER	1	3	Job Reference (optional)	T30878302

Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:13 2023 Page 2 ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-jsT2Zr?VhlC47smimqFHKEeeHNfGcDoo1b2D4Fz3quO

NOTES-

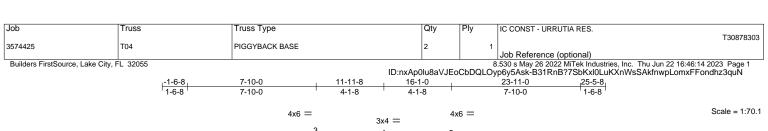
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=656, 8=659.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4807 lb down and 1462 lb up at 11-11-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

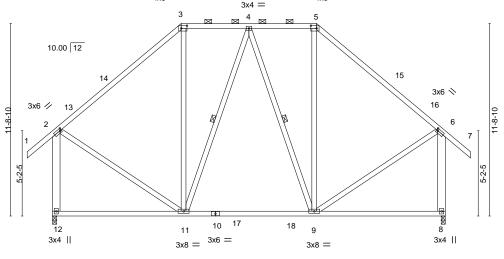
Vert: 4=-4807

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-54, 3-5=-54, 5-7=-54, 8-19=-20, 11-17=-40, 2-6=-10 Drag: 2-17=-10, 6-11=-10 Concentrated Loads (lb)







7-10-0 16-1-0 23-11-0 7-10-0 8-3-0 7-10-0

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

TCLL TCDL	20.ó 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.61 0.65	DEFL. Vert(LL) Vert(CT)		(loc) 9-11 9-11	l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2020/TI	YES	WB	0.21 x-MS	Horz(CT)	-0.01	8	n/a	n/a	Weight: 202 lb	FT = 20%
BCDL	10.0	Code FBC2020/11	712014	IVIALIT	X-IVIO						Weight. 202 ib	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 *Except* **WEBS**

2-12,6-8: 2x6 SP No.2

REACTIONS. (size) 12=0-3-0, 8=0-3-0

Max Horz 12=-336(LC 10)

Max Uplift 12=-208(LC 12), 8=-208(LC 13) Max Grav 12=1042(LC 2), 8=1042(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-728/198, 3-4=-467/226, 4-5=-467/226, 5-6=-728/198, 2-12=-926/251,

6-8=-926/251

BOT CHORD 11-12=-305/315, 9-11=-181/534 2-11=-127/520, 6-9=-128/520 **WEBS**

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 11-11-8, Interior(1) 11-11-8 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 25-5-8 zone; 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) 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=208, 8=208.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

4-11, 4-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

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



Job Truss Type Qty IC CONST - URRUTIA RES Truss T30878304 GABLE 3574425 T04G

4x8 =

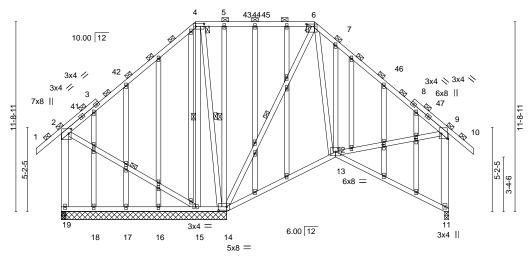
Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:16 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-7R8BCs1NzDaf_JVHRyp_ytF7zahipf?EjZHthaz3quL

1-6-8 1-6-8 8-3-8 10-2-8 15-7-8 23-11-0 25-5-8 8-3-8 1-11-0 1-3-12 6-11-12 5-5-0

> Scale = 1:71 1 6x8 =



8-3-8 10-2-8 16-11-4 23-11-0 8-3-8 [2:0-3-8,0-1-12], [4:0-6-4,0-2-0], [6:0-6-0.0-1-11-0 6-8-12 6-11-12

Tiale Offices (A, I	1 late Offsets (X,1)=- [2.0-5-0,0-1-12], [4.0-0-4,0-2-0], [0.0-0-0,0-1-12], [3.0-0-12,Luge], [14.0-0-0,0-2-0], [20.0-1-3,0-1-0], [20.0-1-3,0-1-0]												
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 0.43	Vert(LL) -0.07 11-12 >999 240	MT20 244/190									
TCDL 7.0	Lumber DOL 1.25	BC 0.37	Vert(CT) -0.15 11-12 >999 180										
BCLL 0.0	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.03 11 n/a n/a										
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 333 lb FT = 20%									

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SP No.3 *Except* **WEBS** WEBS 1 Row at midpt 4-15, 4-14, 5-14, 6-14, 2-15

6-14: 2x4 SP No.2, 2-19,9-11: 2x6 SP No.2 **OTHERS**

2x4 SP No.3

REACTIONS. All bearings 10-2-8 except (jt=length) 19=0-3-0, 19=0-3-0, 19=0-3-0, 11=0-3-0.

Max Horz 19=-330(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 11 except 19=-124(LC 24), 14=-316(LC 13), 15=-278(LC 12) Max Grav All reactions 250 lb or less at joint(s) 19, 19, 19, 18, 17, 16 except 14=1024(LC 1), 11=438(LC 24),

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

2-4=-120/404, 4-5=-18/259, 5-6=-19/262, 9-11=-390/83 TOP CHORD

BOT CHORD 18-19=-309/318, 17-18=-309/318, 16-17=-309/318, 15-16=-309/318, 14-15=-323/300,

13-14=-244/339 12-13=-283/360

WFBS 5-14=-273/155, 6-14=-565/182, 6-13=-215/439, 7-12=-305/261, 2-15=-434/365

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 8-3-8, Exterior(2R) 8-3-8 to 12-6-7, Interior(1) 12-6-7 to 15-7-8, Exterior(2R) 15-7-8 to 19-10-7, Interior(1) 19-10-7 to 25-5-8 zone; 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) Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 19=124, 14=316, 15=278,
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

June 23,2023

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

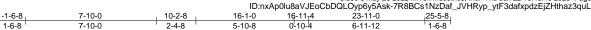
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



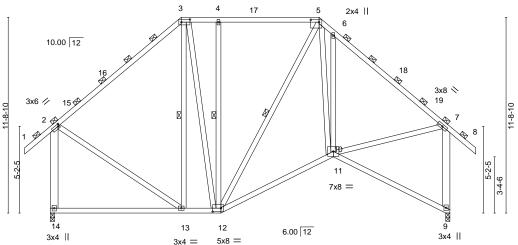
Chesterfield, MO 63017

Job Truss Truss Type Qty IC CONST - URRUTIA RES T30878305 PIGGYBACK BASE 3574425 T05 R Job Reference (optional) 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:16 2023 Page 1 Builders FirstSource, Lake City, FL 32055

4x8 =



Scale = 1:69.0 2x4 || 6x8 =



7-10-0 10-2-8 16-11-4 23-11-0 7-10-0 2-4-8 6-8-12 6-11-12

BOT CHORD

WEBS

			7 10 0		2 7 0	0 0 12		0 11 1	_	
Plate Off	fsets (X,Y)	[2:0-1-0,0-1-8], [3:0-6-4,0)-2-0], [5:0-6-0	,0-1-12], [12:0-6	6-0,0-2-8]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES
TCLL	20.Ó	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.09 13-14	>999	240	MT20
TCDL	7.0	Lumber DOL	1.25	BC (0.48	Vert(CT)	-0.19 13-14	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB (0.54	Horz(CT)	0.05 9	n/a	n/a	
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-	MS					Weight: 224

REACTIONS.

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 *Except* **WEBS**

5-12: 2x4 SP No.2, 2-14,7-9: 2x6 SP No.2

(size) 14=0-3-0, 9=0-3-0

Max Horz 14=-336(LC 10)

Max Uplift 14=-209(LC 12), 9=-207(LC 13) Max Grav 14=964(LC 1), 9=964(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-673/198, 3-4=-441/223, 4-5=-438/222, 5-6=-810/395, 6-7=-879/226,

2-14=-891/253, 7-9=-907/268

13-14=-304/315, 12-13=-197/434, 11-12=-200/643, 10-11=-226/433 **BOT CHORD WEBS**

3-12=-211/281, 4-12=-278/157, 5-12=-250/76, 5-11=-297/563, 6-10=-345/294,

2-13=-126/418, 7-10=-147/559

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 12-0-15, Interior(1) 12-0-15 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 25-5-8 zone; 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) 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) 9 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)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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GRIP 244/190

2-0-0 oc purlins (5-10-11 max.), except end verticals, and sheathed

3-13, 4-12, 5-12

Rigid ceiling directly applied or 10-0-0 oc bracing.

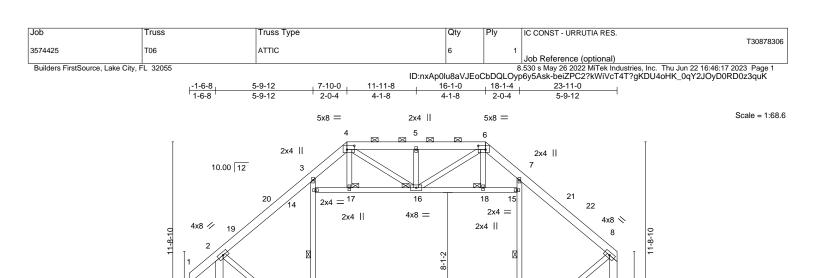
or 6-0-0 oc purlins: 3-5.

1 Row at midpt

FT = 20%

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5-9-12	18-1-4	23-11-0
5-9-12	12-3-8	5-9-12

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

10

1 Row at midpt

1 Brace at Jt(s): 16, 17, 18

8x10 =

12-0-0

•

11

6x8 =

12

8x10 =

riale Olisels (A, I)	Flate Offsets (A, 1) [4.0-3-4,0-2-12], [0.0-3-4,0-2-12], [10.0-3-0,0-3-12]											
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 0.45	Vert(LL) -0.23 10-12 >999 240	MT20 244/190								
TCDL 7.0	Lumber DOL 1.25	BC 0.44	Vert(CT) -0.36 10-12 >792 180									
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.01 9 n/a n/a									
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.18 10-12 800 360	Weight: 255 lb FT = 20%								

LUMBER-

2x6 SP No.2 TOP CHORD

BOT CHORD 2x8 SP 2400F 2.0E 2x4 SP No.3 *Except* **WEBS**

3-12,7-10: 2x4 SP No.2, 2-13,8-9: 2x6 SP No.2

REACTIONS. (size) 13=0-3-0, 9=0-3-0

Max Horz 13=-267(LC 10)

Max Grav 13=1470(LC 2), 9=1386(LC 2)

5-2-5

₩ 13

3x6 ||

[4.0 5 4 0 2 12] [6.0 5 4 0 2 12] [10.0 2 9 0 5 12] [12.0 2 9 0 5 12]

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

TOP CHORD 2-3=-1145/25, 3-4=-732/106, 4-5=-657/122, 5-6=-657/122, 6-7=-734/112, 7-8=-1136/10,

2-13=-1580/10, 8-9=-1489/0

BOT CHORD 10-12=0/817

12-14=-122/486, 3-14=-56/442, 10-15=-135/477, 7-15=-70/433, 2-12=-5/1055, WEBS

8-10=0/1039

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 11-11-8, Interior(1) 11-11-8 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 23-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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). 14-17, 16-18, 15-18; Wall dead load (5.0 psf) on member(s).12-14, 10-15
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

10) Attic room checked for L/360 deflection.

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5-2-5

3x6 ||

Structural wood sheathing directly applied or 6-0-0 oc purlins,

12-14, 10-15

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

June 23,2023



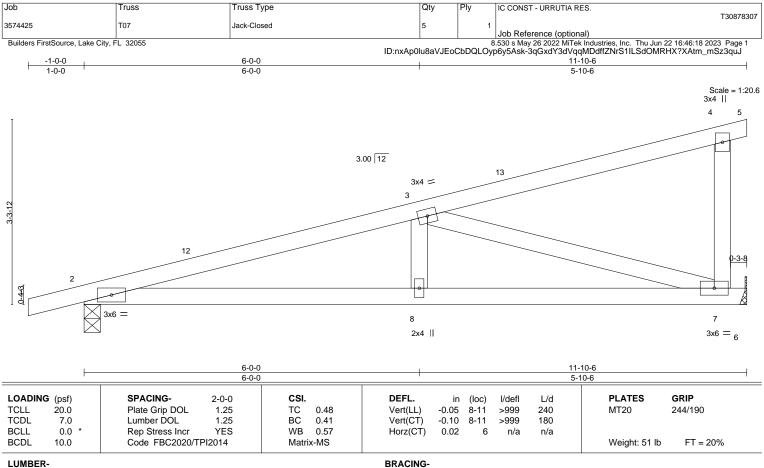
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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Chesterfield, MO 63017



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 **WEBS**

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=113(LC 8)

Max Uplift 2=-144(LC 8), 6=-129(LC 8) Max Grav 2=493(LC 1), 6=438(LC 1)

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

TOP CHORD 2-3=-1017/302

BOT CHORD 2-8=-388/968, 7-8=-388/968 WEBS 3-8=0/264, 3-7=-938/365

NOTES-

- 1) 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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-10-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=144, 6=129.

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

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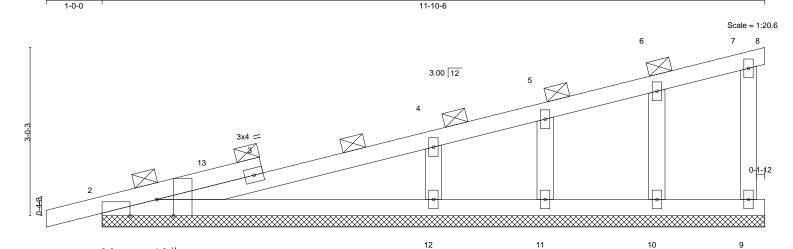


Structural wood sheathing directly applied or 5-6-9 oc purlins,

Rigid ceiling directly applied or 9-4-14 oc bracing.

except end verticals.





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

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 0.39	Vert(LL) -0.00 1	n/r 120	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.26	Vert(CT) 0.01 1	n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) -0.01 8	n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S			Weight: 50 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS OTHERS 2x4 SP No.3

REACTIONS. All bearings 11-10-6.

3x6 =

4x8 ||

(lb) - Max Horz 2=103(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 9, 11, 10 except 12=-117(LC 8) Max Grav All reactions 250 lb or less at joint(s) 2, 8, 9, 11, 10 except 12=447(LC 1)

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

WEBS 4-12=-314/160

NOTES-

- 1) 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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-10-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 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.
- 9) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 9, 11, 10
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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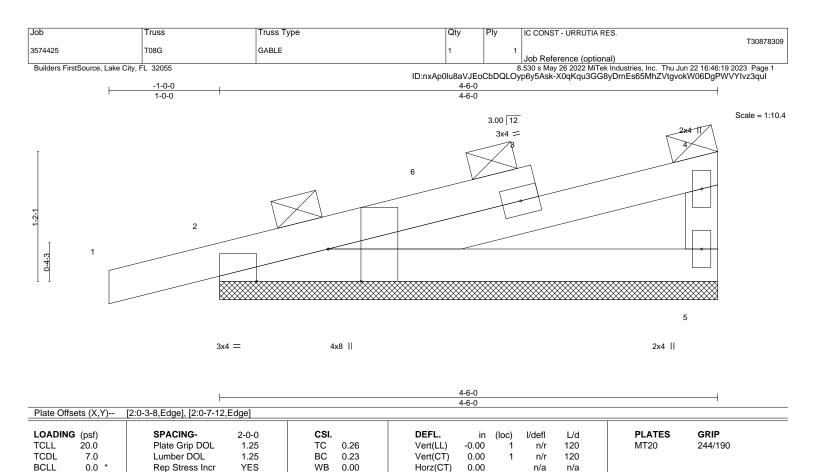
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LUMBER-

BCDL

BRACING-

Matrix-P

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD**

10.0

TOP CHORD 2-0-0 oc purlins, except end verticals.

2x4 SP No.3 WEBS

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 19 lb

FT = 20%

REACTIONS. (size) 2=4-6-0, 5=4-6-0

Max Horz 2=38(LC 8)

Max Uplift 2=-83(LC 8), 5=-44(LC 12) Max Grav 2=221(LC 1), 5=155(LC 1)

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

Code FBC2020/TPI2014

NOTES-

- 1) 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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job Truss Truss Type Qty IC CONST - URRUTIA RES T30878310 3574425 T09 COMMON Job Reference (optional) 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:20 2023 Page 1 Builders FirstSource, Lake City, FL 32055 ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-0DOi1E4u1R54Txp2gotw6jQpkByAlUCqeAF5qLz3quH -1-6-8 6-6-0 12-1-8 17-9-0 24-3-0 1-6-8 5-7-8 5-7-8 6-6-0 6-6-0 Scale = 1:57.7 4x6 || 8.00 12 13 12 5x6 // 5x6 > 3x4 <> 3x4 / 6 1-5-1 10 9 17 <u>1</u>1 3x6 =3x4 = 3x4 =3x8 = 3x8 = 8-6-6 15-8-10 24-3-0 8-6-6 7-2-3 8-6-6 Plate Offsets (X,Y)--[3:0-2-12,0-3-0], [5:0-2-12,0-3-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP I/d (loc) I/defl TC BC 244/190 Plate Grip DOL -0.15 10-11 TCLL 20.0 1.25 0.38 Vert(LL) >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 0.72 Vert(CT) -0.27 10-11 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.34 Horz(CT) 0.03 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 156 lb FT = 20% LUMBER-**BRACING-**2x4 SP No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-3-7 oc purlins, 2x4 SP No.2 **BOT CHORD** except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 *Except* **BOT CHORD** WEBS 2-11,6-7: 2x6 SP No.2 WEBS 1 Row at midpt 3-11, 5-7

REACTIONS. (size) 11=0-3-8, 7=0-3-8 Max Horz 11=232(LC 9)

> Max Uplift 11=-207(LC 12), 7=-169(LC 13) Max Grav 11=1124(LC 19), 7=1031(LC 20)

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

TOP CHORD 2-3=-354/172, 3-4=-1107/286, 4-5=-1117/290, 5-6=-330/126, 2-11=-408/202,

6-7=-295/132

BOT CHORD 10-11=-191/1008, 8-10=-47/737, 7-8=-140/906

4-8=-173/565, 4-10=-168/548, 3-11=-969/108, 5-7=-979/138 **WEBS**

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-1-8, Exterior(2R) 12-1-8 to 15-1-8, Interior(1) 15-1-8 to 24-0-4 zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=207, 7=169.

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4x4 =

25-9-8 24-3-0 -1-6-8 12-1-8 1-6-8 12-1-8 12-1-8 1-6-8

Scale = 1:57.4

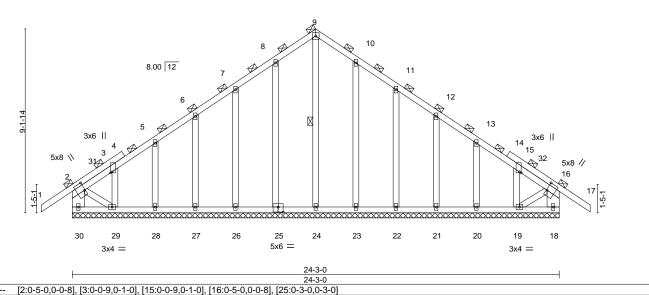


Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. GRIP DEFL. **PLATES** 2-0-0 (loc) I/defI I/d TC BC Plate Grip DOL 244/190 TCLL 20.0 1.25 0.21 Vert(LL) -0.01 17 n/r 120 MT20 TCDL 7.0 Lumber DOL 1.25 0.04 Vert(CT) -0.02 17 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 18 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 186 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.).

1 Row at midpt

Rigid ceiling directly applied or 10-0-0 oc bracing.

9-24

LUMBER-

2x4 SP No.2 TOP CHORD

2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 *Except* WEBS

2-30,16-18: 2x8 SP 2400F 2.0E

OTHERS 2x4 SP No.3

REACTIONS. All bearings 24-3-0.

Max Horz 30=-193(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 30, 25, 26, 27, 28, 23, 22, 21, 20, 18 except 29=-150(LC 12),

Max Grav All reactions 250 lb or less at joint(s) 30, 24, 25, 26, 27, 28, 29, 23, 22, 21, 20, 18, 19

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

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) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 12-1-8, Corner(3R) 12-1-8 to 15-1-8, Exterior(2N) 15-1-8 to 25-9-8 zone; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 25, 26, 27, 28, 23, 22, 21, 20, 18 except (jt=lb) 29=150, 19=131.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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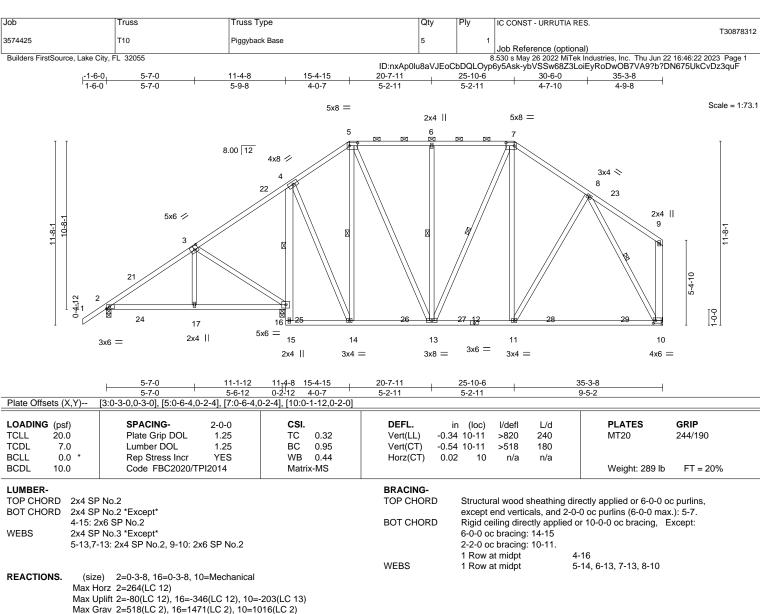
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-528/233, 4-5=-415/205, 5-6=-504/233, 6-7=-504/233, 7-8=-701/245

BOT CHORD 2-17=-212/430, 16-17=-216/433, 4-16=-1083/267, 13-14=-50/288, 11-13=-34/532,

10-11=-83/432

WFBS 3-17=-208/260, 3-16=-467/316, 4-14=-93/721, 5-14=-442/117, 5-13=-127/522,

6-13=-327/161, 7-11=-35/293, 8-10=-812/171

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) -1-6-0 to 2-0-6, Interior(1) 2-0-6 to 15-4-15, Exterior(2R) 15-4-15 to 20-7-11, Interior(1) 20-7-11 to 25-10-6, Exterior(2R) 25-10-6 to 30-6-14, Interior(1) 30-6-14 to 35-0-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 16=346 10=203
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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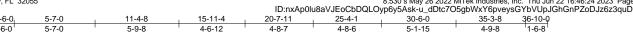
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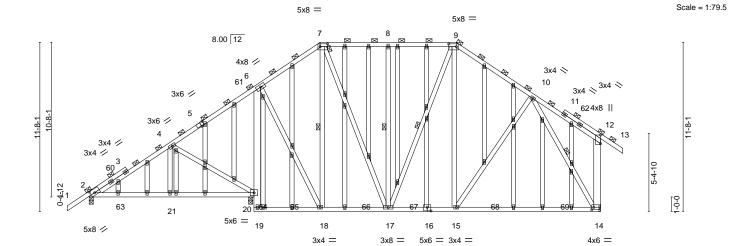


Chesterfield, MO 63017



Builders FirstSource, Lake City, FL 32055





	5-7-0 11-1-12	11 _T 4-8 15-11-4	20-7-11 25-4-1	35-3-8	
	5-7-0 5-6-12	0-2-12 4-6-12	4-8-7 4-8-6	9-11-7	1
Plate Offsets (X,Y)	[2:0-3-5,0-3-0], [5:0-2-5,Edge], [7:0-6-4	,0-2-4], [9:0-6-4,0-2-4], [1	12:0-7-1,0-0-0], [14:0-1-12,0-2-0],	[16:0-3-0,0-3-0]	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES	CSI. TC 0.33 BC 0.77 WB 0.43	DEFL. in (loc) Vert(LL) -0.37 14-15 Vert(CT) -0.58 14-15 Horz(CT) 0.02 14	>483 180	PLATES GRIP MT20 244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	11012(01) 0.02	174 174	Weight: 447 lb FT = 20%

TOP CHORD

BOT CHORD

WEBS

2-0-0 oc purlins (6-0-0 max.), except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

7-18, 8-17, 9-17, 10-14

6-0-0 oc bracing: 18-19.

1 Row at midpt

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 *Except*

2-20: 2x4 SP No.2, 6-19: 2x6 SP No.2

2x4 SP No.3 *Except* WEBS

12-14: 2x6 SP No.2 **OTHERS** 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 14=Mechanical, 20=0-3-8

Max Horz 2=321(LC 11)

Max Uplift 2=-114(LC 12), 14=-232(LC 13), 20=-355(LC 9) Max Grav 2=503(LC 2), 14=1111(LC 20), 20=1515(LC 2)

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

TOP CHORD 2-4=-566/336, 6-7=-502/214, 7-8=-506/225, 8-9=-506/225, 9-10=-735/228,

12-14=-286/117

BOT CHORD 2-21=-209/437, 20-21=-209/437, 6-20=-1092/291, 17-18=-77/319, 15-17=-66/534,

14-15=-109/435

WEBS 4-21=-199/251, 4-20=-477/314, 6-18=-121/710, 7-18=-416/141, 7-17=-123/475,

8-17=-290/145, 9-15=-37/340, 10-14=-780/174

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) -1-6-0 to 2-0-6, Interior(1) 2-0-6 to 15-11-4, Exterior(2R) 15-11-4 to 20-7-11, Interior(1) 20-7-11 to 25-4-1, Exterior(2R) 25-4-1 to 30-7-0, Interior(1) 30-7-0 to 36-10-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 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, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=114, 14=232, 20=355
- 12) 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:

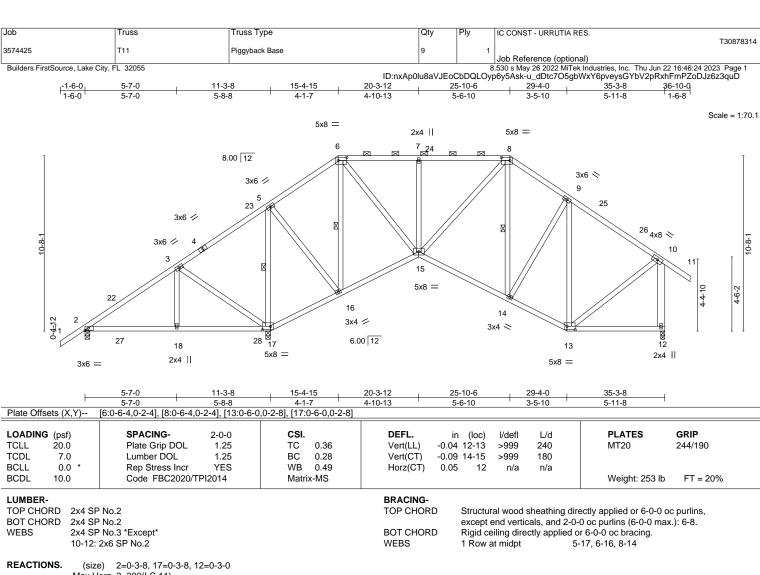
June 23,2023

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





Max Horz 2=300(LC 11)

Max Uplift 2=-74(LC 12), 17=-376(LC 9), 12=-212(LC 13) Max Grav 2=309(LC 23), 17=1613(LC 1), 12=876(LC 24)

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

TOP CHORD 3-5=-190/446, 6-7=-607/188, 7-8=-607/188, 8-9=-632/240, 9-10=-584/167,

10-12=-816/229

BOT CHORD 16-17=-384/215, 14-15=-101/549, 13-14=-90/473

3-18=-211/259, 3-17=-415/304, 5-17=-1131/263, 5-16=-139/725, 6-16=-688/183, **WEBS**

6-15=-147/752, 7-15=-329/161, 9-13=-406/98, 10-13=-54/483

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) -1-6-0 to 2-0-6, Interior(1) 2-0-6 to 15-4-15, Exterior(2R) 15-4-15 to 20-3-12, Interior(1) 20-3-12 to 25-10-6, Exterior(2R) 25-10-6 to 30-10-4, Interior(1) 30-10-4 to 36-10-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=376, 12=212.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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June 23,2023

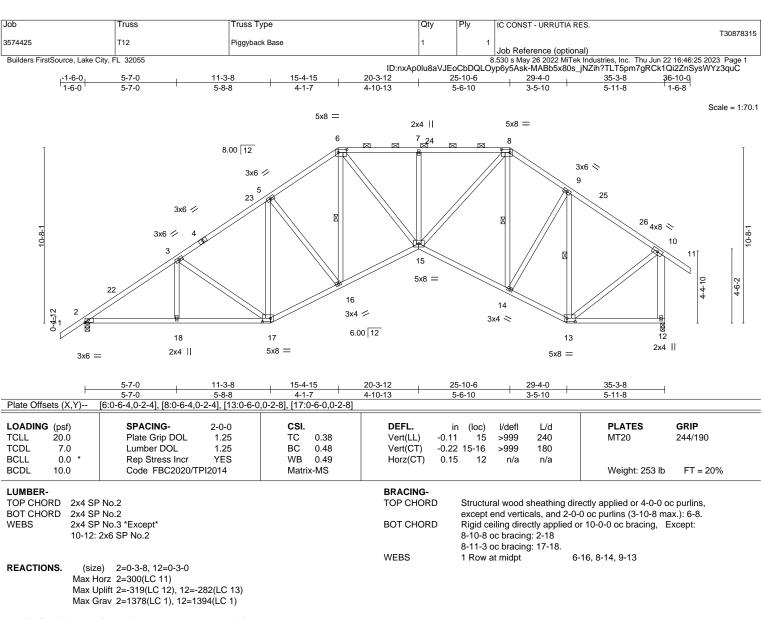


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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2036/440, 3-5=-1669/412, 5-6=-1703/457, 6-7=-1909/447, 7-8=-1909/447,

8-9=-1306/331, 9-10=-1028/235, 10-12=-1333/298

BOT CHORD 2-18=-438/1632, 17-18=-438/1632, 16-17=-328/1490, 15-16=-346/1530, 14-15=-210/1166, 13-14=-144/877

WFBS 3-17=-402/184, 5-17=-360/133, 6-15=-167/867, 7-15=-325/161, 8-15=-334/1286,

8-14=-475/215, 9-14=-169/524, 9-13=-859/158, 10-13=-115/939

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) -1-6-0 to 2-0-6, Interior(1) 2-0-6 to 15-4-15, Exterior(2R) 15-4-15 to 20-3-12, Interior(1) 20-3-12 to 25-10-6, Exterior(2R) 25-10-6 to 30-10-4, Interior(1) 30-10-4 to 36-10-0 zone; end vertical 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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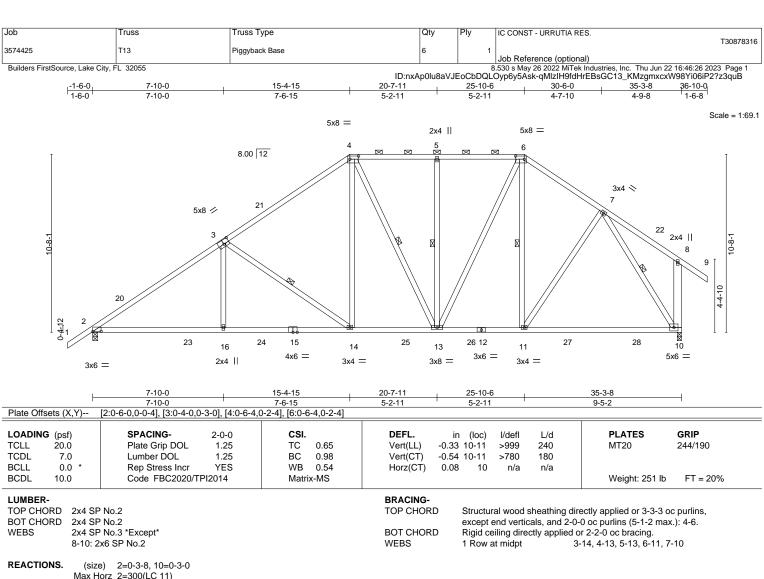
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Chesterfield, MO 63017



Max Uplift 2=-317(LC 12), 10=-284(LC 13) Max Grav 2=1555(LC 19), 10=1587(LC 2)

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

TOP CHORD 2-3=-2252/428, 3-4=-1623/373, 4-5=-1237/336, 5-6=-1237/336, 6-7=-1286/293,

8-10=-284/131

BOT CHORD 2-16=-402/1927, 14-16=-402/1931, 13-14=-244/1292, 11-13=-147/1018, 10-11=-134/789

WEBS 3-16=0/411, 3-14=-784/287, 4-14=-114/712, 5-13=-319/164, 6-13=-183/531,

7-11=-109/448, 7-10=-1399/214

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) -1-6-0 to 2-0-6, Interior(1) 2-0-6 to 15-4-15, Exterior(2R) 15-4-15 to 20-7-11, Interior(1) 20-7-11 to 25-10-6, Exterior(2R) 25-10-6 to 30-7-0, Interior(1) 30-7-0 to 36-10-0 zone; end vertical 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) 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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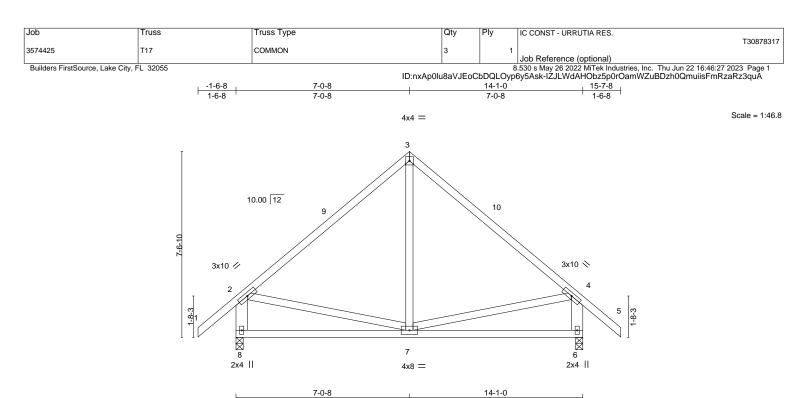
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				7-0-8	1			7-0-8				
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-MS						Weight: 91 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SP No.3 *Except*

2-8,4-6: 2x6 SP No.2

REACTIONS.

(size) 8=0-3-8, 6=0-3-8 Max Horz 8=-207(LC 10)

Max Uplift 8=-124(LC 12), 6=-124(LC 13) Max Grav 8=600(LC 1), 6=600(LC 1)

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

TOP CHORD 2-3=-462/156, 3-4=-462/156, 2-8=-539/226, 4-6=-539/226

BOT CHORD 7-8=-225/297 **WEBS** 3-7=-15/251

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-0-8, Exterior(2R) 7-0-8 to 10-0-8, Interior(1) 10-0-8 to 15-7-8 zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=124, 6=124,

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June 23,2023



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Job Truss Truss Type Qty IC CONST - URRUTIA RES. T30878318 T17G GABLE 3574425

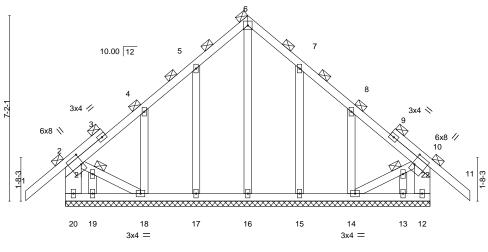
4x4 =

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:28 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-nltjjzAv9v5yQ9Qa8U1oROlCFQshd9f?UQBW6tz3qu9 15-7-8 -1-6-8 7-0-8 14-1-0 1-6-8 7-0-8 7-0-8 1-6-8

Scale = 1:44.5



14-1-0 14-1-0 [2.0 = 0.0 4.0] [40.0 = 0.0 4.0]

BRACING-

Plate Offsets ((X,Y) [[2:0-5-0,0-1-0], [10:0-5-0,0)- 1-0]									
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL 7	'.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.02	11	n/r	120		
BCLL 0	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10	0.0	Code FBC2020/TP	12014	Matri	x-S	, ,					Weight: 112 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 TOP CHORD 2-0-0 oc purlins (6-0-0 max.).

BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.3 *Except* WEBS JOINTS 1 Brace at Jt(s): 6, 21, 22 2-20,10-12: 2x8 SP 2400F 2.0E

OTHERS 2x4 SP No.3

Dieta Officata (V.V.)

REACTIONS. All bearings 14-1-0.

Max Horz 20=-149(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 15 except 18=-157(LC 12), 14=-152(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

NOTES-

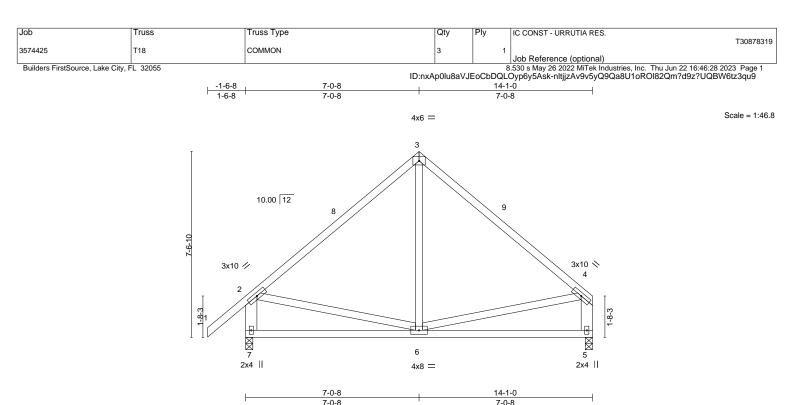
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 7-0-8, Corner(3R) 7-0-8 to 10-0-8, Exterior(2N) 10-0-8 to 15-7-8 zone; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 15 except (jt=lb) 18=157, 14=152.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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	0.55	Vert(LL)	-0.04	5-6	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.09	5-6	>999	180		
BCLL 0.0	*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0		Code FBC2020/TI	PI2014	Matri	x-MS						Weight: 88 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

2x4 SP No.3 *Except* 2-7,4-5: 2x6 SP No.2

REACTIONS.

(size) 7=0-3-8, 5=0-3-8 Max Horz 7=196(LC 9)

Max Uplift 7=-124(LC 12), 5=-87(LC 13) Max Grav 7=606(LC 1), 5=498(LC 1)

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

TOP CHORD 2-3=-470/156, 3-4=-460/149, 2-7=-546/226, 4-5=-438/154

BOT CHORD 6-7=-239/277

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-0-8, Exterior(2R) 7-0-8 to 10-0-8, Interior(1) 10-0-8 to 13-10-4 zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=124

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

June 23,2023

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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Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Job Truss Type Qty IC CONST - URRUTIA RES Truss T30878320 T19 COMMON GIRDER 3574425 Job Reference (optional)

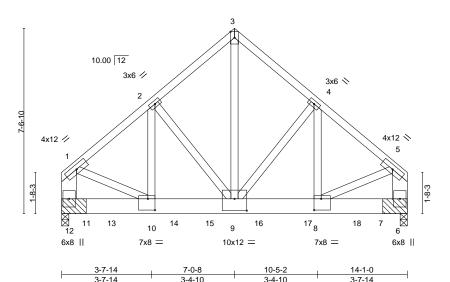
Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:29 2023 Page ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-FxR6wJBXvCDp2J?niBY1zclOWq9_MRA9i4w3fJz3qu8

14-1-0 3-7-14 7-0-8 10-5-2 3-7-14 3-4-10 3-4-10 3-7-14

4x6 II

Scale = 1:46.9



[8:0-3-8,0-5-8], [9:0-6-0,0-5-12], [10:0-3-8,0-5-8] Plate Offsets (X,Y)--LOADING (psf) DEFL. GRIP SPACING-CSI. **PLATES** 2-0-0 in (loc) I/defl I/d TC BC Plate Grip DOL 244/190 TCLL 20.0 1.25 0.25 Vert(LL) -0.059-10 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 0.22 Vert(CT) -0.09 9-10 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.80 Horz(CT) 0.01 6 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 130 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, **BOT CHORD**

2x8 SP 2400F 2.0E except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 *Except* **BOT CHORD** WEBS

3-9: 2x4 SP No.2, 1-12,5-6: 2x8 SP 2400F 2.0E

REACTIONS. (size) 12=(0-3-8 + bearing block) (req. 0-4-2), 6=(0-3-8 + bearing block) (req. 0-4-1) Max Horz 12=-170(LC 23)

Max Uplift 12=-740(LC 8), 6=-715(LC 9) Max Grav 12=3491(LC 2), 6=3420(LC 2)

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

TOP CHORD 1-2=-3033/667, 2-3=-2483/605, 3-4=-2483/605, 4-5=-3008/658, 1-12=-2823/607, 5-6=-2805/600

BOT CHORD

10-12=-223/427, 9-10=-524/2289, 8-9=-456/2269, 6-8=-89/341

3-9=-690/2968, 4-9=-633/233, 4-8=-173/717, 2-9=-664/245, 2-10=-188/757, **WEBS**

1-10=-422/2105, 5-8=-420/2099

NOTES-

- 1) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 12 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP No.2.
- 2) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 6 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP No.2.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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; 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=740, 6=715.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1067 lb down and 252 lb up at 2-0-4, 996 lb down and 223 lb up at 4-0-4, 996 lb down and 223 lb up at 8-0-4, and 996 lb down and 223 lb up at 10-0-4, and 996 lb down and 223 lb up at 12-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.
0574405	T40	COMMON CIPPED			T30878320
3574425	T19	COMMON GIRDER	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

| Job Retentice (Optional) 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:29 2023 Page 2 |ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-FxR6wJBXvCDp2J?niBY1zclOWq9_MRA9i4w3fJz3qu8

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-5=-54, 6-12=-20

Concentrated Loads (lb)

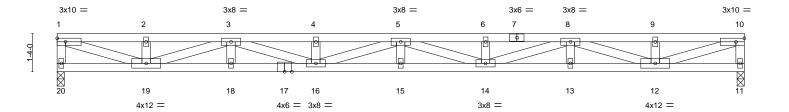
Vert: 13=-935(B) 14=-846(B) 15=-846(B) 16=-846(B) 17=-846(B) 18=-846(B)

Job Truss Truss Type Qty IC CONST - URRUTIA RES T30878321 TF01 3574425 FLOOR 2 2 | 2 | Job Reference (optional)

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:30 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-j8_U8fC9gWLfgTazGu3GWprZ4DRT5v0lxkgdBmz3qu7 Builders FirstSource, Lake City, FL 32055

23-11-0 14-10-15 6-0-10 9-0-1 11-11-8 17-10-6 20-9-13 3-1-3 2-11-7 2-11-7 2-11-7 2-11-7 2-11-7 3-1-3 2-11-7

Scale = 1:40.1



THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0" OF UNIFORM LOAD AS SHOWN.

3-1-3	6-0-10	9-0-1	11-11-8	14-10-15	17-10-6)-9-13 2	23-11-0
3-1-3	2-11-7	2-11-7	2-11-7	2-11-7	2-11-7		-11-7	3-1-3
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TF	2-0-0 1.00 1.00 YES PI2014	CSI. TC 0.20 BC 0.46 WB 0.76 Matrix-MS	DEFL. ir Vert(LL) -0.40 Vert(CT) -0.56 Horz(CT) 0.06	15 >702 15 >510	L/d 360 240 n/a	PLATES MT20 Weight: 228 I	GRIP 244/190 b FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD**

2x4 SP 2850F 2.0E or 2x4 SP M 31 except end verticals.

2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS**

REACTIONS. (size) 20=0-3-0, 11=0-3-0

Max Grav 20=1299(LC 1), 11=1299(LC 1)

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

TOP CHORD $1-20=-1239/0,\ 1-2=-3170/0,\ 2-3=-3170/0,\ 3-4=-6780/0,\ 4-5=-6780/0,\ 5-6=-6780/0,\ 6-8=-6780/0,\ 8-9=-3170/0,\ 3-4=-6780/0,\ 4-5=-6780/0,\ 5-6=-6780/0,\ 6-8=-6780/0,\ 8-9=-3170/0,\ 3-4=-6780/0,\ 4-5=-6780/0,\ 5-6=-6780/0,\ 6-8=-6780/0,\ 8-9=-3170/0,\ 3-4=-6780/0,\ 3-4=-6780/0,\$

9-10=-3170/0, 10-11=-1239/0

BOT CHORD 18-19=0/5442, 16-18=0/5442, 15-16=0/7233, 14-15=0/7233, 13-14=0/5442, 12-13=0/5442

WEBS 1-19=0/3207, 2-19=-278/0, 3-19=-2409/0, 3-16=0/1419, 4-16=-289/0, 5-16=-480/0, 5-14=-480/0, 6-14=-289/0,

8-14=0/1419, 8-12=-2409/0, 9-12=-278/0, 10-12=0/3207

NOTES-

1) 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.

- 2) 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.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) The Fabrication Tolerance at joint 7 = 20%, joint 17 = 20%
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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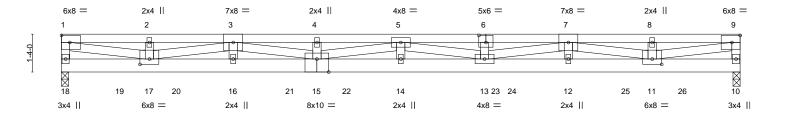


Job Truss Truss Type Qty Ply IC CONST - URRUTIA RES. T30878322 FLOOR TF01G 3574425 | Job Reference (optional) 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:30 2023 Page 1

Builders FirstSource, Lake City, FL 32055

•				ID:nxAp0lu8aVJE	oCbDQLOyp6y5Ask-j8	3_U8fC9gWLfgTazGu3	GWprUiDPo5u3lxkgdBmz3	qu7
3-1-3	6-0-10	9-0-1	11-11-8	14-10-15	17-10-6	20-9-13	23-11-0	
3-1-3	2-11-7	2-11-7	2-11-7	2-11-7	2-11-7	2-11-7	3-1-3	

Scale = 1:40.6



THIS TRUSS IS NOT SYMMETRIC PROPER ORIENTATION IS ESSENTIAL.

3-1-3 3-1-3	6-0-10 2-11-7	9-0-1 2-11-7	11-11-8	14-10-15 2-11-7	17-10-6 2-11-7	20-9-13 2-11-7	23-11-0 3-1-3
Plate Offsets (X,Y)	[6:0-3-0,0-3-0], [11:0-4-0,0-			2-11-7	2-11-7	2-11-7	3-1-3
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TPI:	1.00 1.00 NO	CSI. TC 0.54 BC 0.63 WB 0.82 Matrix-MS	- ()	13-14 >498 13-14 >368	360 MT 240 n/a	ATES GRIP 720 244/190 eight: 526 lb FT = 20%

LUMBER-**BRACING-**

2x4 SP 2850F 2.0E or 2x4 SP M 31 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x6 SP M 26 except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 *Except* **BOT CHORD WEBS** 1-17,3-17,3-15,5-15,5-13,7-13,7-11,9-11: 2x4 SP No.2

REACTIONS. (size) 18=0-3-0, 10=0-3-0

Max Grav 18=3193(LC 1), 10=3932(LC 1)

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

TOP CHORD 1-18=-2777/0, 1-2=-8329/0, 2-3=-8329/0, 3-4=-19727/0, 4-5=-19728/0, 5-6=-22575/0,

6-7=-22580/0, 7-8=-10221/0, 8-9=-10221/0, 9-10=-3378/0

BOT CHORD 17-18=0/559, 16-17=0/15699, 15-16=0/15699, 14-15=0/23559, 13-14=0/23559,

12-13=0/18973, 11-12=0/18973, 10-11=0/690 WEBS 1-17=0/8169, 3-17=-7748/0, 3-16=0/689, 3-15=0/4235, 5-15=-4027/0, 5-14=0/1119,

5-13=-1034/0, 7-13=0/3792, 7-12=0/1254, 7-11=-9201/0, 9-11=0/10020

NOTES-

1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.

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

Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.

- 2) 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.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 219 lb down at 2-0-12, 219 lb down at 4-0-12, 219 lb down at 6-0-12, 219 lb down at 8-0-12, 219 lb down at 10-0-12, 636 lb down at 11-9-15, 1165 lb down at 15-3-12, 407 lb down at 15-10-12, 407 lb down at 17-10-12, and 407 lb down at 19-10-12, and 407 lb down at 21-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-9=-100, 10-18=-10

Concentrated Loads (lb)

Vert: 16=-219(B) 14=-636(B) 12=-407(B) 19=-219(B) 20=-219(B) 21=-219(B) 22=-219(B) 23=-1165(B) 24=-407(B)

25=-407(B) 26=-407(B)

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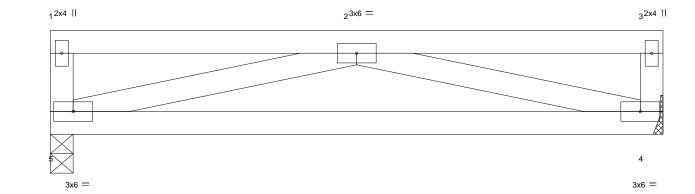
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Job Truss Truss Type Qty IC CONST - URRUTIA RES. T30878323 TF02 FLOOR 3574425 Job Reference (optional) 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:31 2023 Page 1 Builders FirstSource, Lake City, FL 32055 ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-BKYsL?DnRqTWHd89pcaV31NjedpGqToRAOPAjCz3qu6

7-10-8 3-11-4 3-11-4

Scale = 1:14.8



	7-10-8										
LOADING	(psf)	SPACING- 2-0)-0 CSI	i	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.	00 TC	0.27	Vert(LL)	-0.00	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.	00 BC	0.36	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0	Rep Stress Incr Y	ES WB	0.28	Horz(CT)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2020/TPI201	4 Mat	rix-MS						Weight: 37 lb	FT = 20%

7-10-8

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2 except end verticals.

2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS**

REACTIONS. (size) 5=0-3-8, 4=Mechanical

Max Grav 5=417(LC 1), 4=417(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD 4-5=0/825

WEBS 2-5=-766/0, 2-4=-766/0

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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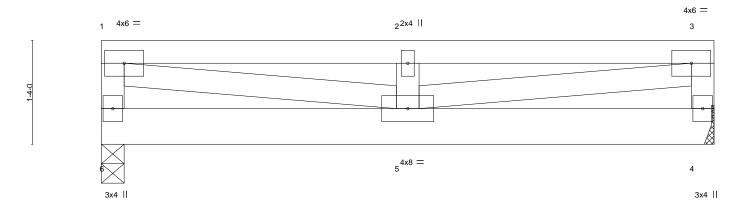
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Job Truss Truss Type Qty IC CONST - URRUTIA RES. T30878324 3574425 TF03 FLOOR Job Reference (optional)
8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:31 2023 Page 1 Builders FirstSource, Lake City, FL 32055 ID: nxAp0lu8aVJEoCbDQLOyp6y5Ask-BKYsL?DnRqTWHd89pcaV31NgEdpjqQ1RAOPAjCz3qu67-10-8 3-11-4

3-11-4

Scale = 1:14 8



	3-11-4 3-11-4		7-10-8 3-11-4	
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.49 BC 0.33	DEFL. in (loc) I/defl L/d Vert(LL) -0.04 5 >999 360 Vert(CT) -0.06 5 >999 240	PLATES GRIP MT20 244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr NO Code FBC2020/TPI2014	WB 0.46 Matrix-MS	Horz(CT) 0.00 4 n/a n/a	Weight: 86 lb FT = 20%

LUMBER-**BRACING-**

3-11-4

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x6 SP No.2 except end verticals. 2x4 SP No.3 **BOT CHORD WEBS** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=Mechanical Max Grav 6=1175(LC 1), 4=1175(LC 1)

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

TOP CHORD 1-6=-1002/0, 1-2=-2221/0, 2-3=-2221/0, 3-4=-1002/0

BOT CHORD 5-6=0/354, 4-5=0/354

WEBS 1-5=0/1926, 2-5=-1215/0, 3-5=0/1926

NOTES-

- 1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 2) 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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 1-3=-300, 4-6=-10

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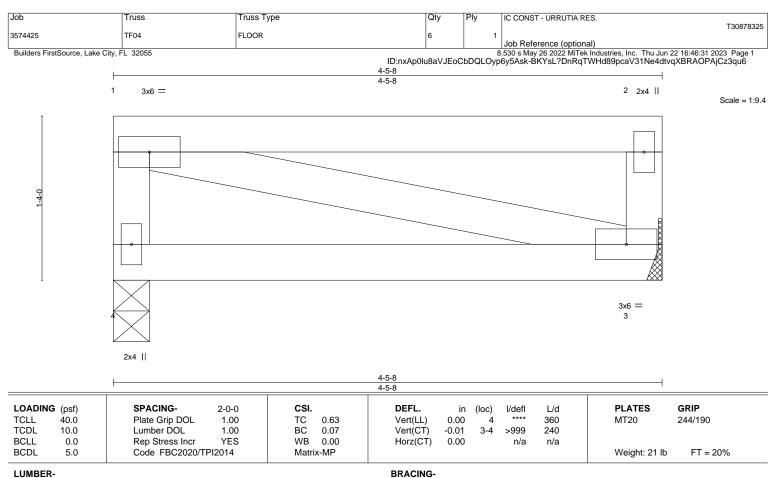
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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD WEBS 2x4 SP No.3

REACTIONS. (size) 4=0-3-8, 3=Mechanical Max Grav 4=229(LC 1), 3=229(LC 1)

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

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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:

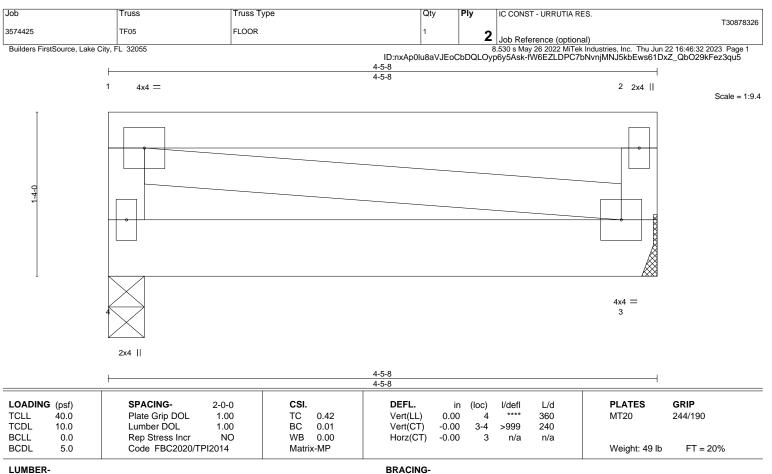
June 23,2023



Structural wood sheathing directly applied or 4-5-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP 2850F 2.0E or 2x4 SP M 31

BOT CHORD 2x6 SP No.2

2x4 SP No.3 **WEBS**

(size) 4=0-3-8, 3=Mechanical REACTIONS. Max Grav 4=646(LC 1), 3=646(LC 1)

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

TOP CHORD 1-4=-625/0, 2-3=-625/0

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 2) 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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 1-2=-300(F=-200), 3-4=-10

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June 23,2023

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

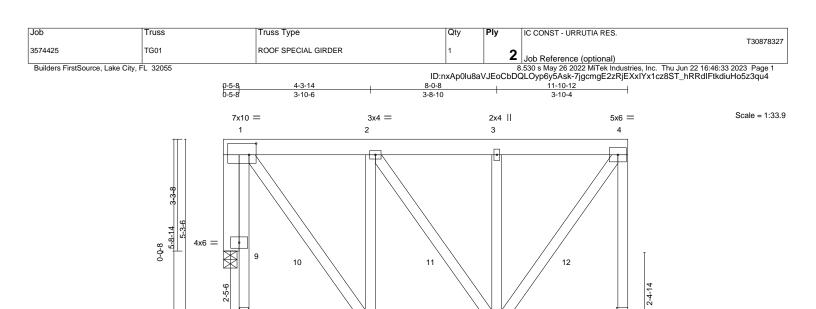
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 4-5-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



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

8

3x8 ||

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEI	FL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Ver	t(LL)	-0.03	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Ver	t(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.82	Hor	z(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS							Weight: 232 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

6

7x8 =

except end verticals.

4x8 ||

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

11-10-12

7

7x8 =

LUMBER-

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except*

1-8: 2x4 SP No.3

WEBS 2x4 SP No.3 **OTHERS** 2x6 SP No.2

REACTIONS. (size) 5=0-3-8, 9=0-4-12

Max Horz 9=439(LC 4)

Max Uplift 5=-1376(LC 4), 9=-1465(LC 4) Max Grav 5=4857(LC 1), 9=4861(LC 1)

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

TOP CHORD 1-2=-2530/683, 2-3=-2508/705, 3-4=-2508/705, 4-5=-3935/1098 **BOT CHORD** 8-9=-286/935, 1-9=-3952/1179, 6-7=-683/2530

1-7=-1322/4260, 2-7=-866/299, 3-6=-923/233, 4-6=-1209/4304 **WEBS**

NOTES-

1) 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: 2x4 - 2 rows staggered at 0-3-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

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

- 4) 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; 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) 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.
- 9) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=1376, 9=1465,
- 11) Girder carries tie-in span(s): 15-0-0 from 0-0-0 to 12-2-4; 12-0-0 from 0-0-0 to 12-2-4; 12-0-0 from 0-0-0 to 12-2-4
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 418 lb down and 149 lb up at 2-2-8, 418 lb down and 149 lb up at 4-2-8, 418 lb down and 149 lb up at 6-1-8, and 418 lb down and 149 lb up at 8-1-8, and 418 Ib down and 149 lb up at 10-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

June 23,2023

WARNIOR - 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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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.
3574425	TG01	ROOF SPECIAL GIRDER	1		T30878327
	1.55.			2	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:33 2023 Page 2 ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-7jgcmgE2zRjEXxIYx1cz8ST_hRRdIFtkdiuHo5z3qu4

LOAD CASE(S) Standard

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

Vert: 1-4=-239(F=-185), 5-8=-446(F=-426)

Concentrated Loads (lb)

Vert: 7=-418(F) 6=-418(F) 10=-418(F) 11=-418(F) 12=-418(F)

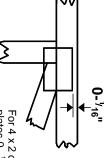


Symbols

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 × 4

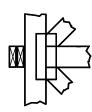
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



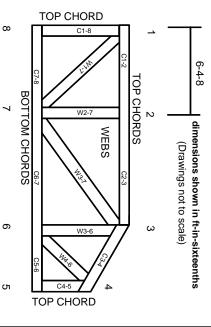
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.