



Site Information:

RE: 3287786 - WESEMAN CONST. - HS HSE

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Customer Info: WESEMAN CONST. Project Name: High Springs House Model: Custom

Lot/Block: N/A Subdivision: N/A

Address: 347 SE Sunset Glen, N/A

City: Alachua Cty State: FL

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

Name: License #:

Address:

City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 11 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T28720209	T01	9/7/22
2	T28720210	T01G	9/7/22
3	T28720211	T02	9/7/22
4	T28720212	T02G	9/7/22
5	T28720213	T03	9/7/22
6	T28720214	T04	9/7/22
7	T28720215	T05	9/7/22
8	T28720216	T06	9/7/22
9	T28720217	T06G	9/7/22
10	T28720218	T07	9/7/22
11	T28720219	T07G	9/7/22



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

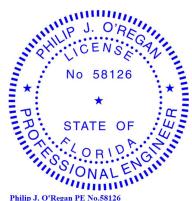
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

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

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

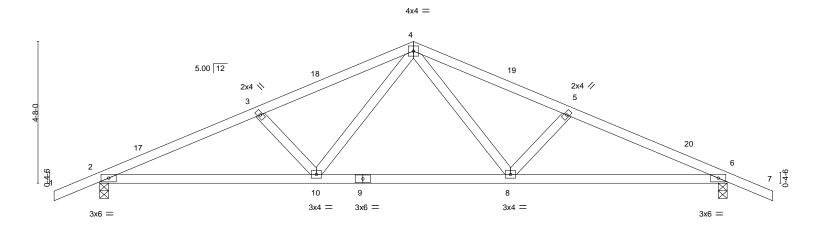


Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

September 7,2022

Job Truss Truss Type Qty Ply WESEMAN CONST. - HS HSE T28720209 T01 8 3287786 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 08:31:13 2022 Page 1 ID:1d7RHbG9DmyE?b_j9NU?VhygJLL-HxC5kEt3NFVQqLmiOlpSD911PmObcAB9?TF3TWyg4HS -1-<u>6-0</u> 10-4-0 15-4-9 20-8-0 1-6-0 5-0-9

Scale = 1:37.9



	7-1-10 7-1-10		13-6-6 6-4-11	+	20-8-0 7-1-10
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2020/TPI2014	CSI. TC 0.33 BC 0.72 WB 0.23 Matrix-MS	DEFL. in (lo Vert(LL) -0.13 8- Vert(CT) -0.26 8- Horz(CT) 0.05	10 >999 240	PLATES GRIP MT20 244/190 Weight: 93 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WFBS REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-73(LC 13) Max Uplift 2=-229(LC 12), 6=-229(LC 13)

Max Grav 2=974(LC 1), 6=974(LC 1)

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

TOP CHORD 2-3=-1847/518, 3-4=-1663/485, 4-5=-1663/485, 5-6=-1847/518 **BOT CHORD** 2-10=-404/1665, 8-10=-224/1128, 6-8=-416/1665

WFBS 4-8=-153/614. 5-8=-286/164. 4-10=-153/614. 3-10=-286/164

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 1-6-0, Interior(1) 1-6-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 22-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 2=229 6=229
- 7) 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: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-60(F=-40), 8-14=-20

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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



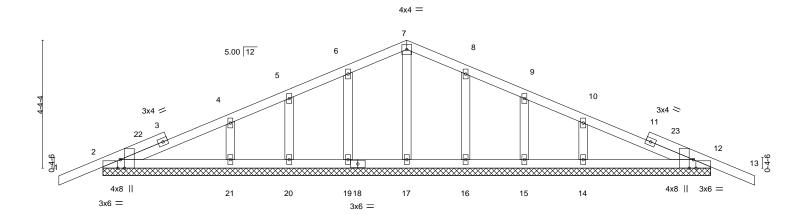
Structural wood sheathing directly applied or 4-3-0 oc purlins.

Rigid ceiling directly applied or 9-1-8 oc bracing.

16023 Swingley Ridge Rd

WESEMAN CONST. - HS HSE Job Truss Truss Type Qty Ply T28720210 3287786 T01G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 08:31:14 2022 Page 1 ID:1d7RHbG9DmyE?b_j9NU?VhygJLL-I7mTxauh8ZdHRVLuy?KhlNaFjAuCLgPIE7_d0yyg4HR <u>-1-6-0</u> 10-4-0

Scale = 1:39.2



	ı					20-8-0						
	ľ					20-8-0						1
Plate Offs	sets (X,Y)	[2:0-3-8,Edge], [2:0-1-1,E	dge], [12:0-3-	3,Edge], [12:0)-1-1,Edge]							
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	<-S	, ,					Weight: 99 lb	FT = 20%

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 OTHERS

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 10-0-0 oc purlins.

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

REACTIONS. All bearings 20-8-0.

Max Horz 2=-69(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 16, 15, 14

10-4-0

Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 19, 20, 16, 15 except 21=286(LC 23), 14=286(LC

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) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-4-0, Corner(3R) 10-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 22-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 16, 15, 14.

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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:

September 7,2022





Job Truss Truss Type Qty Ply WESEMAN CONST. - HS HSE T28720211 3287786 T02 5 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 08:31:16 2022 Page 1 ID:1d7RHbG9DmyE?b_j9NU?VhygJLL-hWtDMGvxgAt?hoVH4QM9qofSh_NepQrbiRTk4qyg4HP <u>13-11-</u>1 20-10-0 27-8-15 34-3-15 41-8-0 43-2-0 1-6-0 6-7-0 6-10-15 6-10-15 6-7-0

Scale = 1:71.6

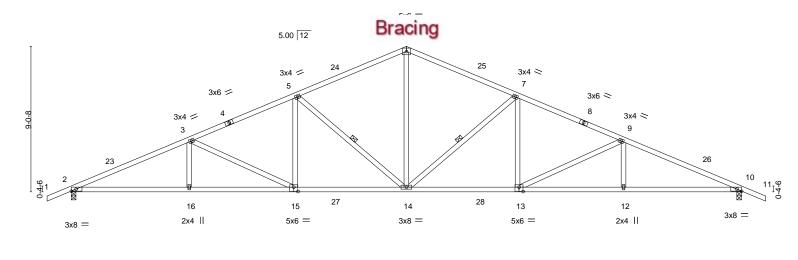


Plate Offsets (X,Y)	[10:0-3-8,Edge], [13:0-3-0,0-3-4], [15:0-3			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.71	Vert(LL) -0.32 14-15 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(CT) -0.55 14-15 >901 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.16 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 218 lb FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

6-10-15

6-7-0

Structural wood sheathing directly applied or 2-3-2 oc purlins.

7-14 5-14

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

1 Row at midpt

20-10-0

6-10-15

LUMBER-

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP M 31 *Except* 13-15: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 10=0-3-8

Max Horz 2=138(LC 12)

7-4-1

Max Uplift 2=-358(LC 12), 10=-358(LC 13) Max Grav 2=1749(LC 2), 10=1749(LC 2)

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

TOP CHORD 2-3=-3684/686, 3-5=-3026/575, 5-6=-2285/501, 6-7=-2285/501, 7-9=-3026/575,

9-10=-3684/686 BOT CHORD

2-16=-688/3352, 15-16=-688/3352, 14-15=-480/2734, 13-14=-387/2734, 12-13=-550/3352,

6-7-0

10-12=-550/3352

WEBS $6-14=-221/1426,\ 7-14=-904/298,\ 7-13=-56/558,\ 9-13=-681/230,\ 9-12=0/278,$

5-14=-904/298, 5-15=-56/558, 3-15=-681/229, 3-16=0/278

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 2-8-0, Interior(1) 2-8-0 to 20-10-0, Exterior(2R) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 43-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 2=358, 10=358.

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41-8-0

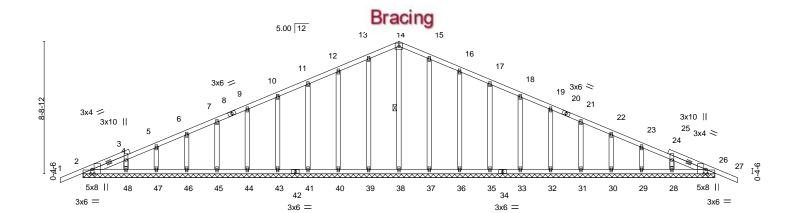
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

September 7,2022



Job Truss Truss Type Qty Ply WESEMAN CONST. - HS HSE T28720212 T02G 3287786 Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 08:31:18 2022 Page 1 ID:1d7RHbG9DmyE?b_j9NU?VhygJLL-eu?_nyxCCo7jw6ffBrPdvDkyJnGHHS3u9lyq9jyg4HN

Scale = 1:76.0



41-8-0 41-8-0 Plate Offsets (X,Y)--[2:0-3-8,Edge], [2:0-1-1,Edge], [26:0-3-8,Edge], [26:0-1-1,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) -0.01 27 n/r 120 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 BC 0.05 -0.01 27 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.13 Horz(CT) 0.01 26 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 262 lb FT = 20%

LUMBER-TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 2x4 SP No 3 OTHERS

BRACING-TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

41-8-0

20-10-0

WFBS 1 Row at midpt 14-38

REACTIONS. All bearings 41-8-0.

Max Horz 2=134(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35, 33, 32, 31, 30, 29, 28, 26

20-10-0

20-10-0

Max Grav All reactions 250 lb or less at joint(s) 2, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35, 33, 32, 31, 30, 29, 28, 26

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) -1-6-0 to 2-10-0, Exterior(2N) 2-10-0 to 20-10-0, Corner(3R) 20-10-0 to 24-10-0, Exterior(2N) 24-10-0 to 43-2-0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35, 33, 32, 31, 30, 29, 28, 26.

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September 7,2022







Chesterfield, MO 63017

Job Truss Truss Type Qty Ply WESEMAN CONST. - HS HSE T28720213 3287786 T03 4 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 08:31:20 2022 Page 1 ID:1d7RHbG9DmyE?b_j9NU?VhygJLL-aH7kCeySkPNRAQo2JGR5?dq87bkYlEcBc3RxDcyg4HL <u>13-11-</u>1 20-10-0 <u>27-8-15</u> 34-3-15 41-8-0 6-10-15 6-7-0 6-10-15 6-7-0

Scale = 1:70.4

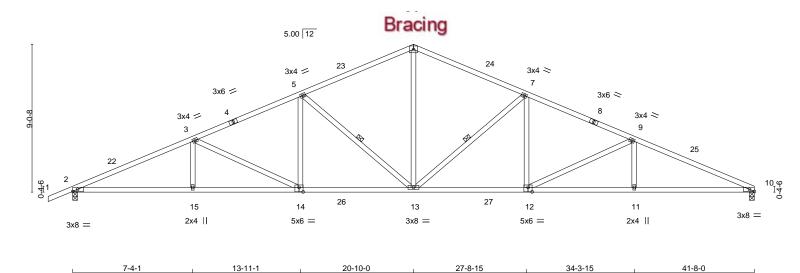


Plate Offsets (X,Y)	[10:0-3-8,Edge], [12:0-3-0,0-3-4], [14:0-	3-0,0-3-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.74	Vert(LL) -0.32 12-13	>999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(CT) -0.56 12-13	>899 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.16 10	n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 216 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

6-10-15

6-7-0

Rigid ceiling directly applied or 8-5-7 oc bracing.

1 Row at midpt

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

7-13 5-13

6-10-15

LUMBER-

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP M 31 *Except* 12-14: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 10=0-3-8

Max Horz 2=147(LC 12)

7-4-1

Max Uplift 2=-358(LC 12), 10=-326(LC 13) Max Grav 2=1751(LC 2), 10=1682(LC 2)

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

TOP CHORD 2-3=-3687/686, 3-5=-3029/578, 5-6=-2288/502, 6-7=-2288/507, 7-9=-3032/586,

9-10=-3701/696

BOT CHORD 2-15=-697/3354, 14-15=-697/3354, 13-14=-490/2737, 12-13=-402/2740, 11-12=-578/3369, 10-11=-578/3369

6-7-0

WEBS $6-13=-225/1428,\ 7-13=-907/300,\ 7-12=-59/562,\ 9-12=-694/238,\ 9-11=0/280,$

5-13=-904/298, 5-14=-56/558, 3-14=-681/229, 3-15=0/278

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 2-8-0, Interior(1) 2-8-0 to 20-10-0, Exterior(2R) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 41-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 2=358, 10=326.

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7-4-1

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

September 7,2022



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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





<u>27-8-15</u>

6-10-15

27-8-15

34-3-15

6-7-0

34-3-15

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

5-17, 7-16, 9-16

Rigid ceiling directly applied or 2-2-0 oc bracing.

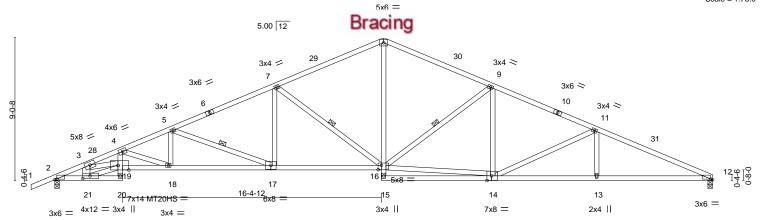
1 Row at midpt

20-10-0

6-10-15

20-8-4

Scale = 1:73.0



	2-0-0	2-3-8 3-0-9	6-7-0	6-9-3	7-0-11	6-7-0	7-4-1
Plate Offs	ets (X,Y)	[2:0-1-8,0-0-8], [12	2:0-1-8,0-0-8], [14:0-3	-8,Edge], [16:0-2-8,0-3-4], [19:0-8-4,Edge], [21:0-5-8,0-2-0]		
	. , ,						
LOADING	i (pst)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip I	OOL 1.25	TC 0.75	Vert(LL) -0.34 16-17	>999 240	MT20 244/190
TCDL	7.0	Lumber DC	L 1.25	BC 0.91	Vert(CT) -0.68 16-17	>733 180	MT20HS 187/143
BCLL	0.0 *	Rep Stress	Incr YES	WB 0.91	Horz(CT) 0.25 12	n/a n/a	
BCDL	10.0	Code FBC	2020/TPI2014	Matrix-MS			Weight: 236 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

 $\begin{vmatrix} -1-6-0 & 2-0-0 & 4-3-8 \\ 1-6-0 & 2-0-0 & 2-3-8 \end{vmatrix}$

3-0-9

17-19: 2x4 SP M 31, 8-15: 2x4 SP No.3

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

3-21: 2x6 SP No.2

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

REACTIONS.

(size) 2=0-3-8, 12=0-3-8

Max Horz 2=147(LC 16) Max Uplift 2=-358(LC 12), 12=-326(LC 13)

Max Grav 2=1624(LC 1), 12=1540(LC 1)

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

TOP CHORD $2\text{-}3\text{-}-3349/683,\ 3\text{-}4\text{-}-5084/1104,\ 4\text{-}5\text{-}-4165/885,\ 5\text{-}7\text{-}-3126/636,\ 7\text{-}8\text{-}-2246/524,}$

8-9=-2236/528, 9-11=-2753/584, 11-12=-3395/696

BOT CHORD 2-21=-737/3060, 20-21=-156/691, 4-19=-142/662, 18-19=-1150/4914, 17-18=-869/3841,

16-17=-554/2803, 8-16=-244/1321, 13-14=-578/3074, 12-13=-578/3074 3-19=-385/1689, 4-18=-1136/298, 5-18=-76/505, 5-17=-1086/333, 7-17=-76/593,

13-11-1

WEBS 7-16=-1003/336, 14-16=-370/2275, 9-16=-668/268, 9-14=-21/321, 11-14=-666/240,

11-13=0/279, 3-21=-892/240, 19-21=-586/2401

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 2-8-0, Interior(1) 2-8-0 to 20-10-0, Exterior(2R) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 41-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) 2=358, 12=326.

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:

September 7,2022

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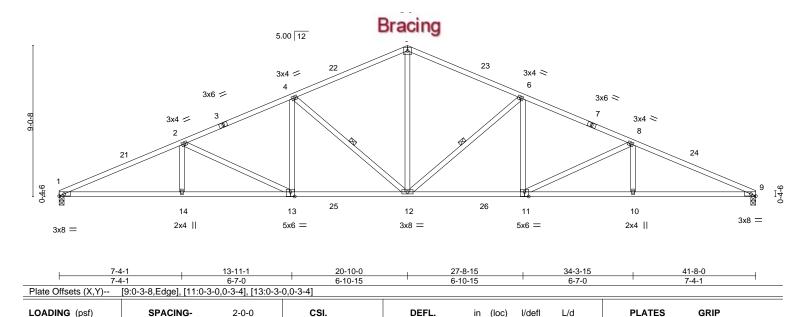
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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WESEMAN CONST. - HS HSE Job Truss Truss Type Qty Ply T28720215 3287786 T05 5 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 08:31:24 2022 Page 1 ID:1d7RHbG9DmyE?b_j9NU?VhygJLL-S2MF1??yoetse16pY6V19T_p6C5Sh2dmXhP9MNyg4HH <u>13-11-</u>1 20-10-0 27-8-15 6-10-15 34-3-15 41-8-0 6-7-0 6-10-15 6-7-0

Scale = 1:68.9



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WFBS

-0.32 12-13

-0.56 12-13

0.17

>999

>898

1 Row at midpt

n/a

240

180

n/a

Rigid ceiling directly applied or 8-5-2 oc bracing.

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

6-12 4-12

MT20

Weight: 214 lb

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

20.0

7.0

0.0

10.0

BOT CHORD 2x4 SP M 31 *Except*

11-13: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 9=0-3-8

Max Horz 1=129(LC 12)

Max Uplift 1=-326(LC 12), 9=-326(LC 13) Max Grav 1=1683(LC 2), 9=1683(LC 2)

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

TOP CHORD $1-2 = -3704/696, \ 2-4 = -3035/588, \ 4-5 = -2291/508, \ 5-6 = -2291/508, \ 6-8 = -3035/588, \ 4-5 = -2291/508, \ 5-6 = -2291/508, \ 6-8 = -3035/588, \ 4-5 = -2291/508, \ 5-6 = -2291/508, \ 6-8 = -3035/588, \ 4-5 = -2291/508, \ 5-6 = -2291/508, \ 6-8 = -3035/588, \ 4-5 = -2291/508, \ 5-6 = -2291/508, \ 6-8 = -3035/588, \ 4-5 = -2291/508, \ 5-6 = -2291/508, \ 6-8 = -3035/588, \ 4-5 = -2291/508, \ 5-6 = -2291/508, \ 6-8 = -3035/588, \ 4-5 = -2291/508, \ 6-8 = -3035/588, \ 6-8 = -3035/588, \ 6-8 = -3035/588, \ 6-8 = -3035/588, \ 6-8 = -3035/588, \ 6-8 = -3035/588, \ 6-8 = -3035/588, \ 6-8 = -3035/588, \ 6-8 = -3035/588, \ 6-8 = -3035$

8-9=-3704/697

BOT CHORD 1-14=-707/3371, 13-14=-707/3371, 12-13=-493/2742, 11-12=-408/2742, 10-11=-578/3371,

1.25

1.25

YES

TC

вс

WB

Matrix-MS

0.75

0.90

0.70

9-10=-578/3371

5-12=-226/1430, 6-12=-907/300, 6-11=-59/562, 8-11=-694/238, 8-10=0/280,

4-12=-907/300, 4-13=-59/562, 2-13=-694/237, 2-14=0/280

NOTES-

WEBS

- 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) 0-0-0 to 4-2-0, Interior(1) 4-2-0 to 20-10-0, Exterior(2R) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 41-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 1=326, 9=326.

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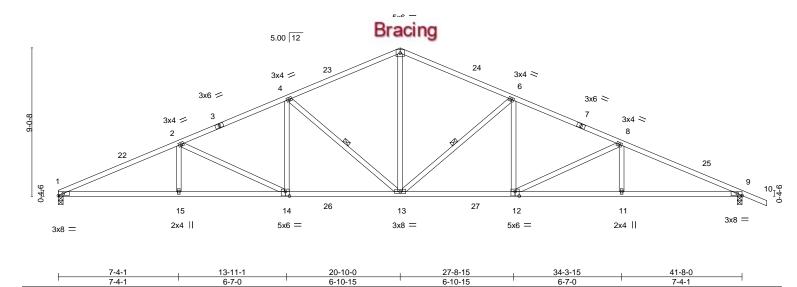
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

September 7,2022



WESEMAN CONST. - HS HSE Job Truss Truss Type Qty Ply T28720216 T06 5 3287786 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 08:31:26 2022 Page 1 ID:1d7RHbG9DmyE?b_j9NU?VhygJLL-PRU?Sh1DKF8auLGCfWYVEu39b0ny9y73??uFRFyg4HF <u>13-11-</u>1 20-10-0 27-8-15 34-3-15 41-8-0 43-2-0 1-6-0 6-7-0 6-10-15 6-10-15 6-7-0

Scale = 1:70.2



Tiate Offices (A, T)	1 late Offsets (X, 1) [3.0 0 0,Eage], [12.0 0 0,0 0 4], [14.0 0 0,0 0 4]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL 20.0	Plate Grip DOL 1.25	TC 0.75	Vert(LL) -0.32 13-14 >999 240	MT20 244/190					
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(CT) -0.56 13-14 >899 180						
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.17 9 n/a n/a						
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 216 lb FT = 20%					

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

Plate Offsets (X

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

2x4 SP M 31 *Except* 12-14: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 9=0-3-8

Max Horz 1=-147(LC 17)

Max Uplift 1=-326(LC 12), 9=-358(LC 13) Max Grav 1=1682(LC 2), 9=1751(LC 2)

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

TOP CHORD 1-2=-3701/696, 2-4=-3032/586, 4-5=-2288/507, 5-6=-2288/502, 6-8=-3029/578, 8-9=-3687/687

[9:0-3-8 Edge] [12:0-3-0 0-3-4] [14:0-3-0 0-3-4]

BOT CHORD 1-15=-698/3369, 14-15=-698/3369, 13-14=-483/2740, 12-13=-392/2737, 11-12=-550/3354, 9-11=-550/3354

5-13=-225/1428, 6-13=-904/298, 6-12=-56/558, 8-12=-681/230, 8-11=0/278,

4-13=-907/300, 4-14=-59/562, 2-14=-694/237, 2-15=0/280

NOTES-

WEBS

- 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) 0-0-0 to 4-2-0, Interior(1) 4-2-0 to 20-10-0, Exterior(2R) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 43-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 1=326, 9=358.

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

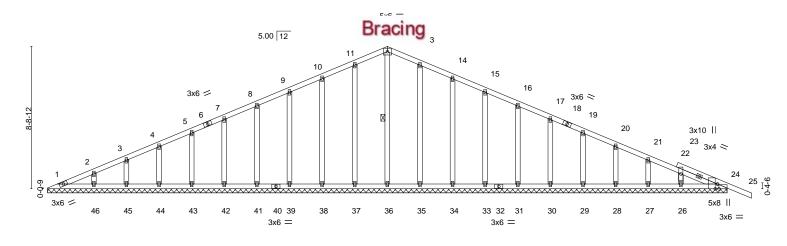
6-13 4-13

Rigid ceiling directly applied or 8-6-2 oc bracing.

1 Row at midpt

WESEMAN CONST. - HS HSE Job Truss Truss Type Qty Ply T28720217 3287786 T06G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 08:31:29 2022 Page 1 ID:1d7RHbG9DmyE?b_j9NU?VhygJLL-p0A85j35cAW9lo?nKf5CsXhqXD0sMRnVhz7w1ayg4HC

Scale = 1:70.6



41-8-0 41-8-0 Plate Offsets (X Y)-- [24:0-3-8 Edge] [24:0-1-1 Edge]

1 1010 011	0010 (71, 17	[Z 1.0 0 0, Lago], [Z 1.0 1 1,	,Lugoj									
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	0.13	Vert(LL)	-0.01	25	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.01	25	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-S						Weight: 254 lb	FT = 20%

LUMBER-

OTHERS

TOP CHORD 2x4 SP No 2 BOT CHORD

2x4 SP No 2 2x4 SP No 3 **BRACING-**

TOP CHORD BOT CHORD WFBS

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 12-36

41-8-0

REACTIONS. All bearings 41-8-0.

Max Horz 1=-142(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 1, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26, 24

All reactions 250 lb or less at joint(s) 1, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, Max Grav 30, 29, 28, 27, 26, 24

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

20-10-0

20-10-0

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) 0-7-6 to 4-10-0, Exterior(2N) 4-10-0 to 20-10-0, Corner(3R) 20-10-0 to 24-10-0, Exterior(2N) 24-10-0 to 43-2-0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26, 24.

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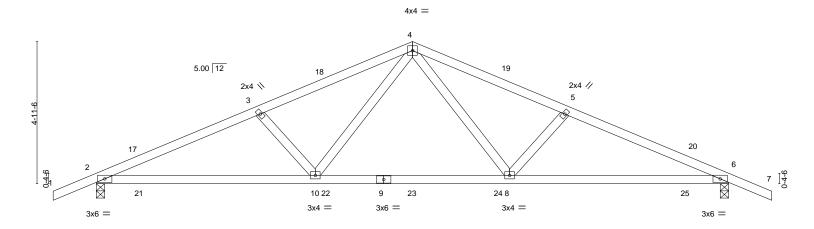
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Job Truss Truss Type Qty Ply WESEMAN CONST. - HS HSE T28720218 3287786 T07 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 08:31:30 2022 Page 1 ID:1d7RHbG9DmyE?b_j9NU?VhygJLL-HCkWI24jNUe0MyZzuMcRPkEwTdEz5pofwdsTa1yg4HB 11-0-0 22-0-0

5-3-9

Scale = 1:40.1



	7-7-7 7-7-7		14-4-9 6-9-2	+	22-0-0 7-7-7
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 0.43 BC 0.57 WB 0.40	DEFL. in (loc Vert(LL) 0.17 8-1 Vert(CT) -0.18 8-1 Horz(CT) 0.04	6 >999 240	PLATES GRIP MT20 244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 98 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-77(LC 13) Max Uplift 2=-331(LC 8), 6=-331(LC 9) Max Grav 2=895(LC 1), 6=895(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1592/1481, 3-4=-1404/1439, 4-5=-1404/1439, 5-6=-1592/1481 TOP CHORD **BOT CHORD** 2-10=-1304/1440, 8-10=-823/960, 6-8=-1316/1440

WFBS 4-8=-620/488, 5-8=-322/198, 4-10=-620/488, 3-10=-322/198

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 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 23-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 2=331, 6=331,

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:

September 7,2022

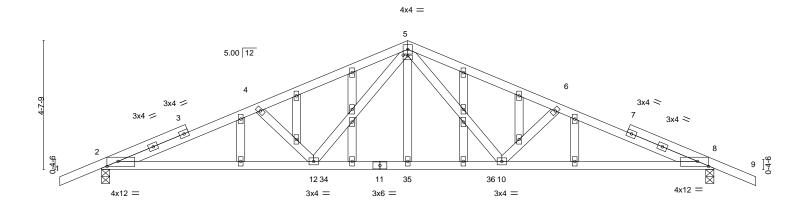


Structural wood sheathing directly applied or 4-5-9 oc purlins.

Rigid ceiling directly applied or 4-9-3 oc bracing.

	Job	Truss	Truss Type	Qty	Ply	WESEMAN (CONST HS HSE	
								T28720219
	3287786	T07G	GABLE	1	1			
						Job Reference	e (optional)	
	Builders FirstSource (Lake	City,FL), Lake City, FL - 3	2055,	8	530 s Aug	11 2022 MiTek	Industries, Inc. Wed Sep 7 08:31:3	32 2022 Page 1
ID:1d7RHbG9DmyE?b j9NU?VhyqJLL-DbrGik6 v5ukcGiL0nfvU9JAtQwqZiLyNwLaevyq4H9							/NwLaevyg4H9	
	-1-6-0	5-8-7	11-0-0	1	16-3-9		22-0-0	23-6-0
	160	E 0 7	E 2 O		E 2 0		E 0 7	160

Scale = 1:41.4



	7-7-7	1	14-4-9	T. Control of the Con	22-0-0	
	7-7-7	ı	6-9-2	7-7-7		
Plate Offsets (X,Y)	[2:0-4-12,0-2-3], [5:0-2-0,0-0-4], [8:0-4-	12,0-2-3]				
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.82 BC 0.56 WB 0.46 Matrix-MS	DEFL. in (loc) Vert(LL) 0.20 10-33 Vert(CT) -0.17 10-33 Horz(CT) 0.04 8	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 130 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WFBS **OTHERS** 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=73(LC 12)

Max Uplift 2=-331(LC 8), 8=-331(LC 9) Max Grav 2=892(LC 1), 8=892(LC 1)

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

TOP CHORD 2-4=-1730/1857, 4-5=-1507/1748, 5-6=-1507/1748, 6-8=-1730/1857

BOT CHORD 2-12=-1696/1609, 10-12=-979/997, 8-10=-1688/1609

WEBS 4-12=-396/347, 5-12=-778/544, 5-10=-778/544, 6-10=-396/347

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-4-2, Exterior(2N) 1-4-2 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 23-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 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) except (jt=lb) 2=331, 8=331,

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September 7,2022



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 3-4-11 oc purlins.

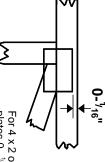
Rigid ceiling directly applied or 4-1-9 oc bracing.

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- $\frac{1}{16}$ 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

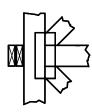
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

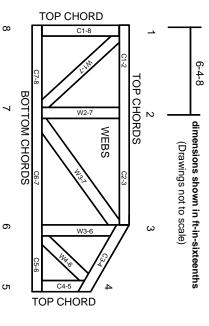
Min size shown is for crushing only

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

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- 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.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.