

73



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

RE: 2820748 - CORNERSTON - LOT 85 EC

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Cornerstone Project Name: Fortune Model: Custom
Lot/Block: 85 Subdivision: Emerald Cove
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 41 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	T24256119	CJ01	6/8/21	23	T24256141	T03	6/8/21
2	T24256120	CJ01A	6/8/21	24	T24256142	T04	6/8/21
3	T24256121	CJ01B	6/8/21	25	T24256143	T05	6/8/21
4	T24256122	CJ02	6/8/21	26	T24256144	T06	6/8/21
5	T24256123	CJ03	6/8/21	27	T24256145	T07	6/8/21
6	T24256124	CJ03A	6/8/21	28	T24256146	T08	6/8/21
7	T24256125	CJ04	6/8/21	29	T24256147	T09	6/8/21
8	T24256126	CJ04A	6/8/21	30	T24256148	T10	6/8/21
9	T24256127	CJ05	6/8/21	31	T24256149	T11	6/8/21
10	T24256128	CJ05A	6/8/21	32	T24256150	T12	6/8/21
11	T24256129	CJ08	6/8/21	33	T24256151	T13	6/8/21
12	T24256130	EJ01	6/8/21	34	T24256152	T14	6/8/21
13	T24256131	EJ02	6/8/21	35	T24256153	T15	6/8/21
14	T24256132	EJ03	6/8/21	36	T24256154	T16	6/8/21
15	T24256133	EJ04	6/8/21	37	T24256155	T17	6/8/21
16	T24256134	EJ05	6/8/21	38	T24256156	T18	6/8/21
17	T24256135	HJ08	6/8/21	39	T24256157	T19	6/8/21
18	T24256136	HJ10	6/8/21	40	T24256158	T20	6/8/21
19	T24256137	HJ10A	6/8/21	41	T24256159	V01	6/8/21
20	T24256138	T01	6/8/21				
21	T24256139	T01G	6/8/21				
22	T24256140	T02	6/8/21				



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: O'Regan, Philip

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



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

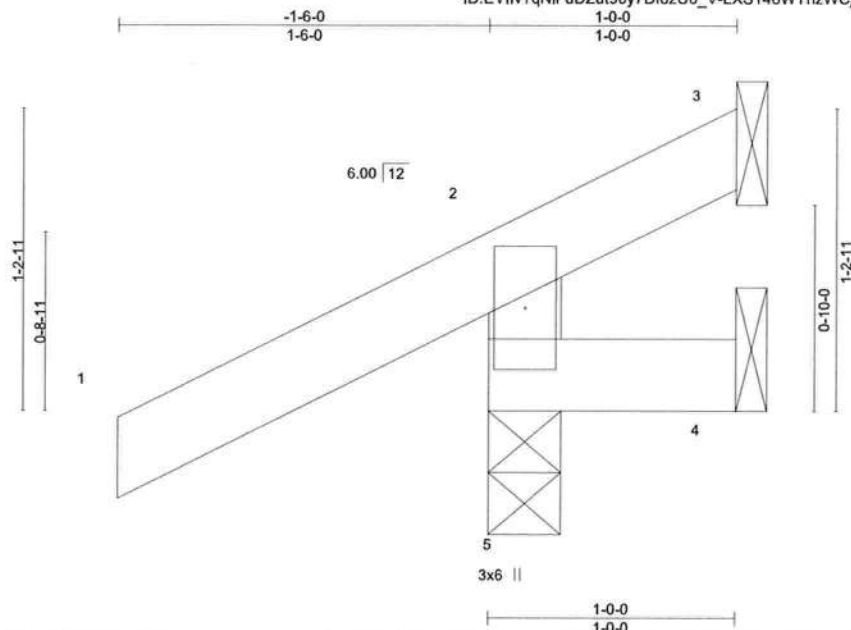
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 8, 2021

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC
2820748	CJ01	Jack-Open	7	1	T24256119

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:10 2021 Page 1
ID:EVllv?qNlFuDZut96y7Df8zU8_V-LXS148WYhzWCjgQMWAH2KnqeceirhzGtCLdLjTz8Q1h



Scale = 1:9.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	0.00	5	>999	240	
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	5	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR						
								Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=39(LC 12)
Max Uplift 5=-63(LC 12), 3=-40(LC 1), 4=-16(LC 1)
Max Grav 5=207(LC 1), 3=13(LC 8), 4=10(LC 3)

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

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) 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) 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) 5, 3, 4.



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June 8,2021

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

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



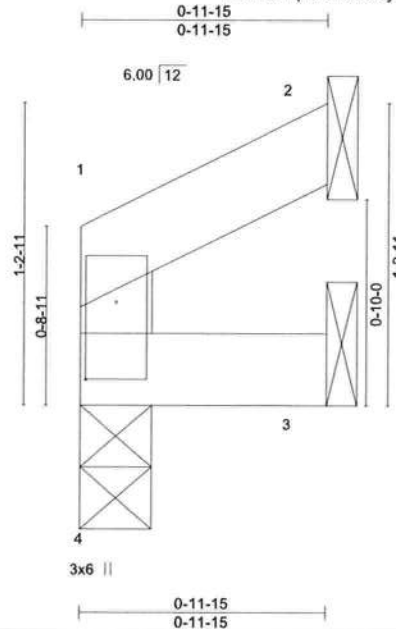
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256120
2820748	CJ01A	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:11 2021 Page 1

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Scale = 1:9.0

Plate Offsets (X,Y)-- [4:0-3-12,0-1-8]

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 0.02	Vert(LL)	0.00	4	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR						Weight: 4 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 0-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 4=14(LC 12)
Max Uplift 2=-17(LC 12), 3=-3(LC 12)
Max Grav 4=31(LC 1), 2=22(LC 1), 3=16(LC 3)

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

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) 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) 2, 3.



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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



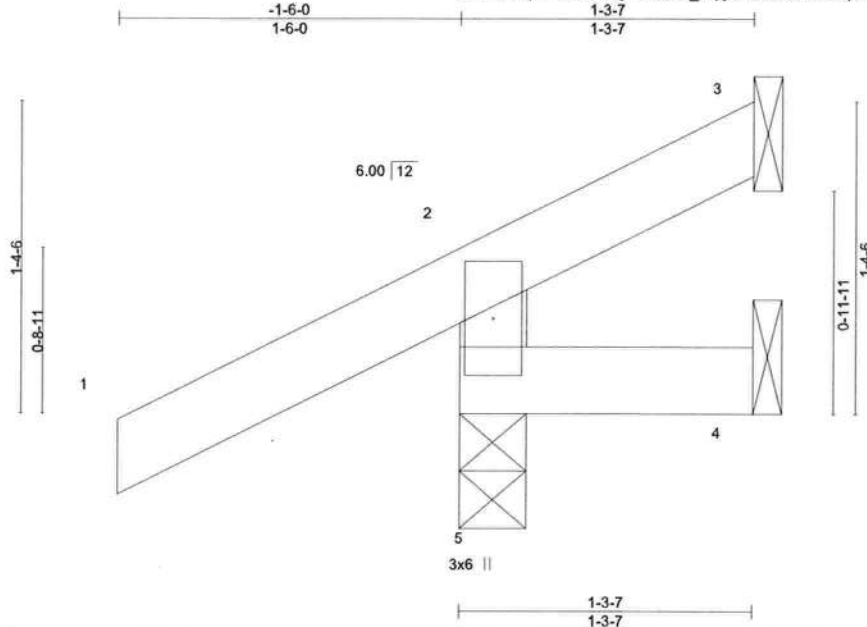
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256121
2820748	CJ01B	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:11 2021 Page 1

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Scale = 1:9.7

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 0.19	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR						Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=44(LC 12)
Max Uplift 5=-56(LC 12), 3=-15(LC 1), 4=-10(LC 19)
Max Grav 5=195(LC 1), 3=8(LC 8), 4=16(LC 3)

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

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) 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) 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) 5, 3, 4.



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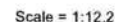
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



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8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:12 2021 Page 1
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TOP CHORD	Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

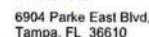
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1.6-0 to 1.6-0, Interior(1) 1.6-0 to 2.2-11 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate 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) 5, 3, 4.



June 8.2021

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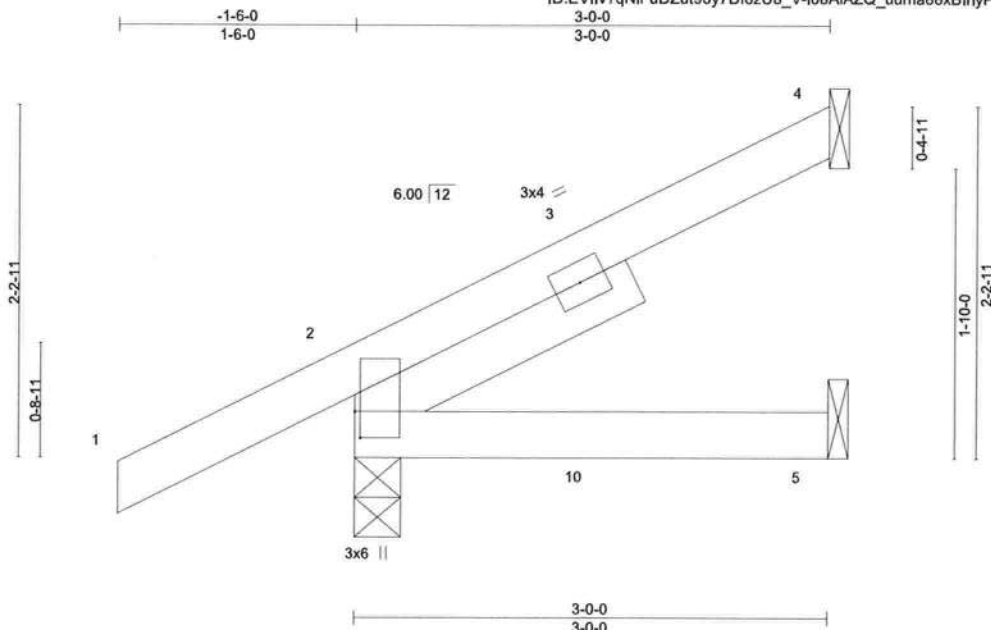


Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256123
2820748	CJ03	Jack-Open	7	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:13 2021 Page 1

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Scale = 1:14.0

Plate Offsets (X,Y)-- [2:0-2-0,0-0-6]

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 0.14	Vert(LL)	0.01	5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	-0.01	5-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 - 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=73(LC 12)
Max Uplift 4=-41(LC 12), 2=-49(LC 12), 5=-17(LC 9)
Max Grav 4=60(LC 1), 2=210(LC 1), 5=48(LC 3)

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

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 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) 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) 4, 2, 5.



Philip J. O'Regan PE No.58126
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June 8,2021

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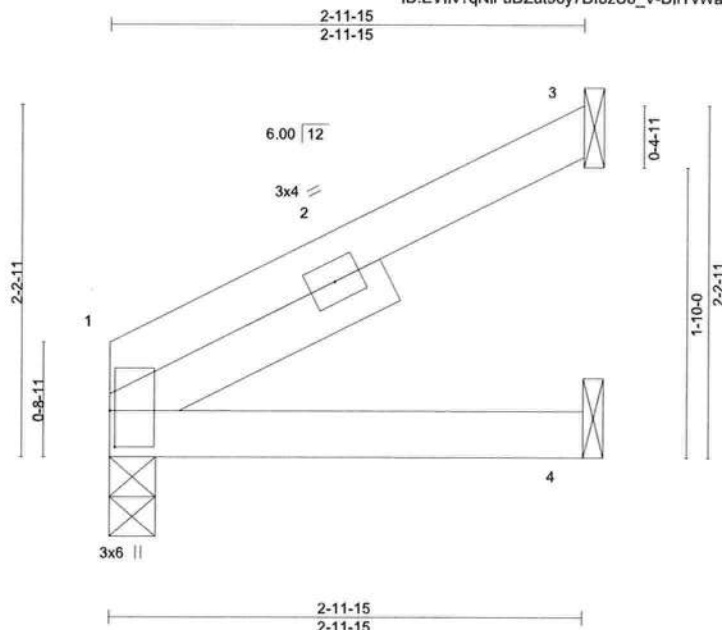


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC
2820748	CJ03A	Jack-Open	1	1	T24256124

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:14 2021 Page 1
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Scale = 1:14.0

Plate Offsets (X,Y)-- [1:0-2-12,0-0-6]

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 0.11	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 - 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 1=51(LC 12)
Max Uplift 1=-10(LC 12), 3=-45(LC 12), 4=-4(LC 12)
Max Grav 1=109(LC 1), 3=72(LC 1), 4=50(LC 3)

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

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) 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) 1, 3, 4.



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

June 8,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCS! Building Component

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

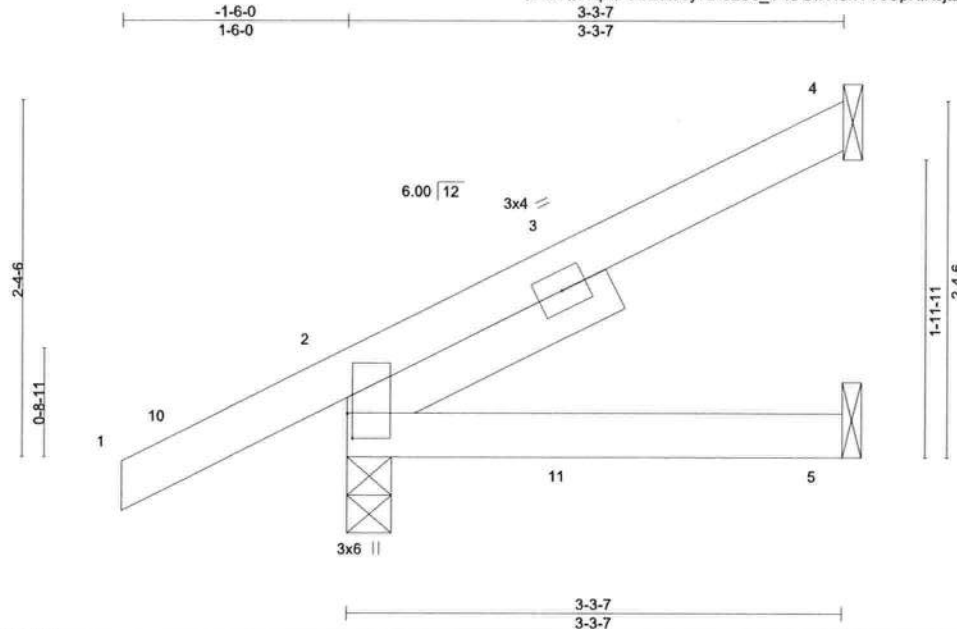


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC
2820748	CJ04	Jack-Open	1	1	T24256125

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:15 2021 Page 1
ID:EVllv?gNIFuDZut96y7Df8zU8_V-iUGw7rahVV8UpRIKJtD1qXVKfNXMDVcLdK6Ohz8Q1c



Scale = 1:14.7

Plate Offsets (X,Y)-- [2:0-2-0,0-0-6]

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 0.18	Vert(LL)	0.01	5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	-0.01	5-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 + 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=78(LC 12)
Max Uplift 4=-45(LC 12), 2=-50(LC 12), 5=-19(LC 9)
Max Grav 4=68(LC 1), 2=219(LC 1), 5=53(LC 3)

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

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-2-11 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) 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) 4, 2, 5.



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Date:

June 8, 2021

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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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256126
2820748	CJ04A	Jack-Open	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:15 2021 Page 1
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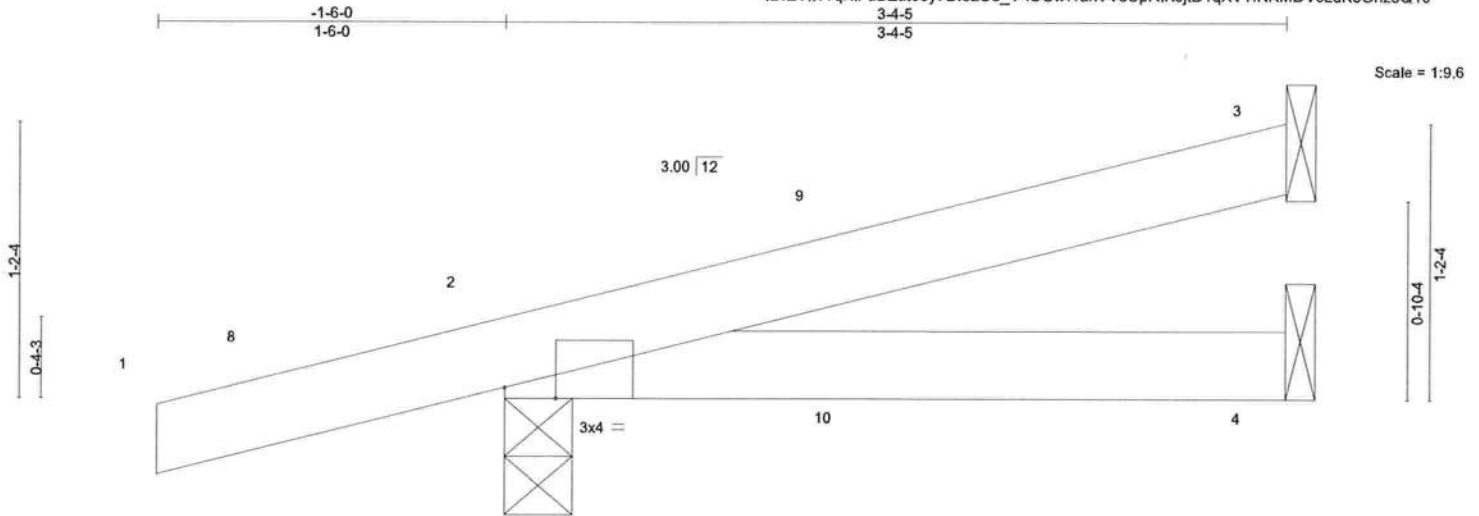


Plate Offsets (X,Y)--		[2:0-2-10,Edge]		3-4-5		3-4-5	
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl L/d
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	0.02 4-7 >999 240
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01 4-7 >999 180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 2 n/a n/a
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP			
						PLATES	GRIP
						MT20	244/190
						Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=46(LC 8)
Max Uplift 3=33(LC 8), 2=126(LC 8), 4=18(LC 9)
Max Grav 3=67(LC 1), 2=221(LC 1), 4=54(LC 3)

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

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-3-9 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) 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) 3, 4 except (jt=lb) 2=126.



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June 8,2021

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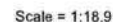
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



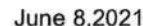
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Tampa, FL 36610

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:17 2021 Page 1
ID:EVllv7qNlFuDZut96y7Df8zU8 V-etNHyXcx16OC3lSiQ8vh6FcpES15q77vpxpDTZz8Q1a



TOP CHORD	Structural wood sheathing directly applied or 5-0-1 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

- 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., GCp=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 4.11-5 zone; porch 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) 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) 4, 2, 5.

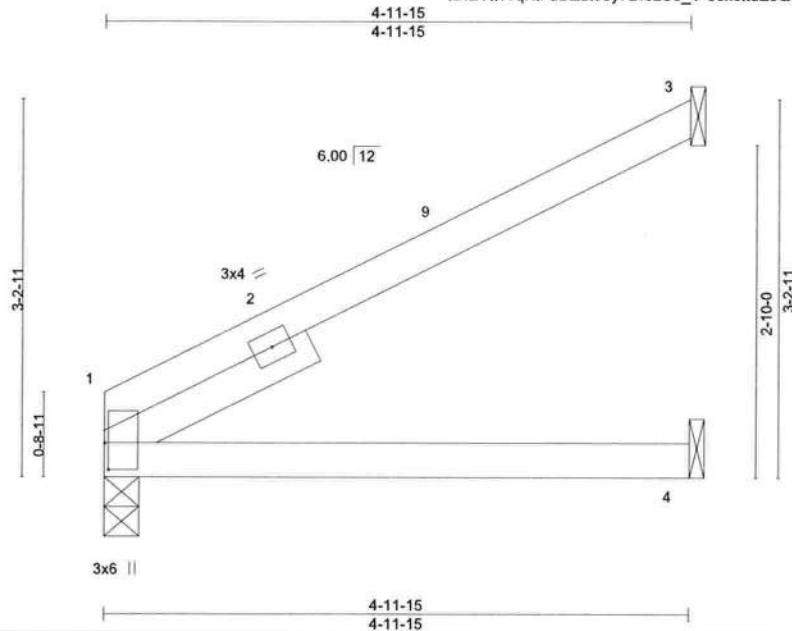


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC
2820748	CJ05A	Jack-Open	1	1	T24256128
Job Reference (optional)					

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:18 2021 Page 1
ID:EVllv7qNIFuZut96y7Df8zU8_V-63x3ltdZoQW3gv1u_rRwT9_SsNxZaF21bZm70z8Q1Z



Scale = 1:18.9

Plate Offsets (X,Y)-- [1:0-2-12,0-0-6]

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 0.32	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.28	Vert(CT)	-0.06	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02	1	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 + 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 1=85(LC 12)
Max Uplift 1=-21(LC 12), 3=-73(LC 12), 4=-5(LC 12)
Max Grav 1=183(LC 1), 3=120(LC 1), 4=88(LC 3)

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

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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-3 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) 1, 3, 4.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 8,2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256129
2820748	CJ08	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:18 2021 Page 1
ID: EVllv7qNIFuZut96y7Df8zU8_V-63x3ltdZoQW3gv1u_rRwFT9u9sMDZaF21bZm70z8Q1Z

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1-6-0

7-4-5
7-4-5

Scale = 1:17.0

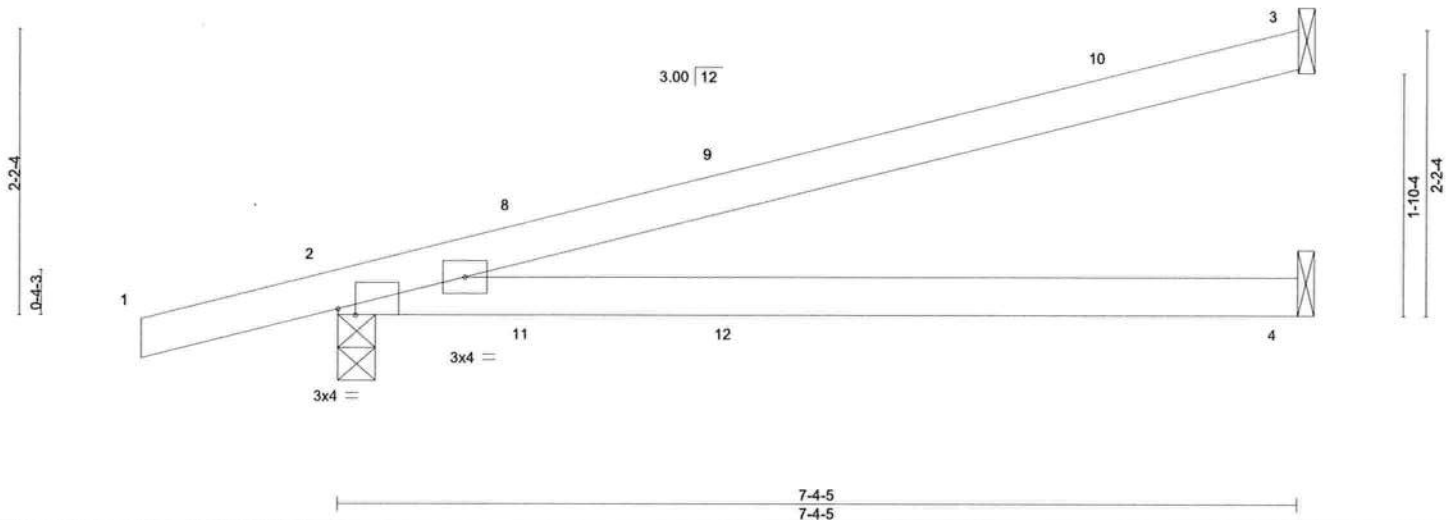


Plate Offsets (X,Y)-- [2:0-1-10,Edge]

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 0.66	Vert(LL)	0.30	4-7	>288	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	0.26	4-7	>339	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=80(LC 8)
Max Uplift 3=85(LC 8), 2=187(LC 8), 4=50(LC 8)
Max Grav 3=165(LC 1), 2=359(LC 1), 4=134(LC 3)

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

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-3-9 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) 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) 3, 4 except (jt=lb) 2=187.



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June 8, 2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256130
2820748	EJ01	Jack-Partial	28	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:19 2021 Page 1
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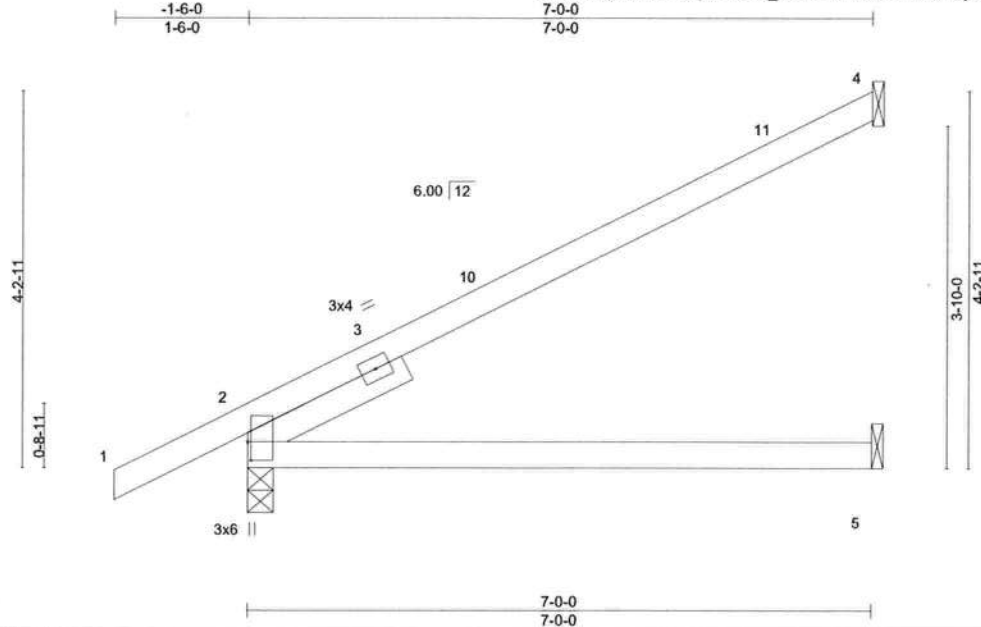


Plate Offsets (X,Y)-- [2:0-2-8,0-0-6]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.12	5-8	>677	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.21	5-8	>396	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	4	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 28 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 + 1-11-8

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=137(LC 12)
Max Uplift 4=-89(LC 12), 2=-69(LC 12), 5=-3(LC 12)
Max Grav 4=164(LC 1), 2=346(LC 1), 5=124(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-346/57

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 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) 4, 2, 5.



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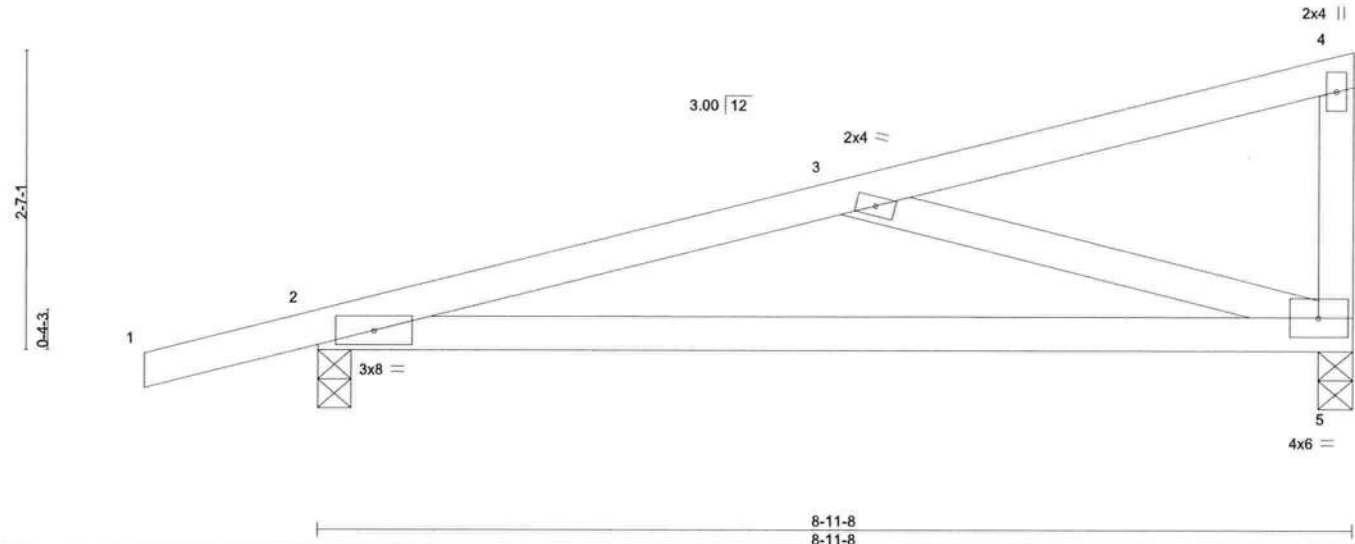
Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256131
2820748	EJ02	Monopitch	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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Scale = 1:19.2



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.71	Vert(LL)	0.29	5-8	>361	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	0.25	5-8	>419	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 39 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-12 oc bracing.

REACTIONS.

(size) 2=0-3-8, 5=0-3-8
Max Horz 2=93(LC 8)
Max Uplift 2=-212(LC 8), 5=-165(LC 8)
Max Grav 2=414(LC 1), 5=319(LC 1)

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

TOP CHORD 2-3=-621/688
BOT CHORD 2-5=-778/599
WEBS 3-5=-580/724

NOTES-

- 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 8-9-12 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=212, 5=165.



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

June 8, 2021

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

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



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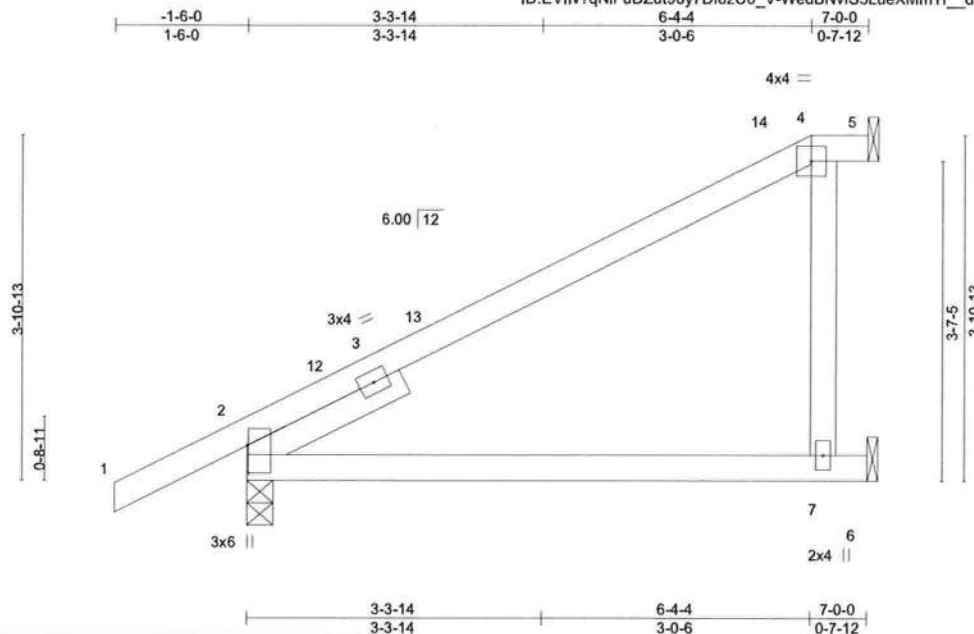


Plate Offsets (X,Y)--		[2:0-3-12,0-0-2]		3-3-14		3-3-3		3-7-12			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.14 7-10	>603	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.23 7-10	>369	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.07 5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 32 lb	FT = 20%

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	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 - 1-11-8		

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=130(LC 12)
Max Uplift 5=-36(LC 1), 2=-73(LC 12), 6=-146(LC 12)
Max Grav 5=63(LC 12), 2=346(LC 1), 6=284(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-363/63
WEBS 4-7=-225/288

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 6-4-4, Exterior(2E) 6-4-4 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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) 5, 2 except (jt=lb) 6=146.



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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



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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-393/38

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=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 5-4-4, Exterior(2E) 5-4-4 to 6-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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, 6.

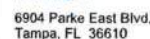


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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

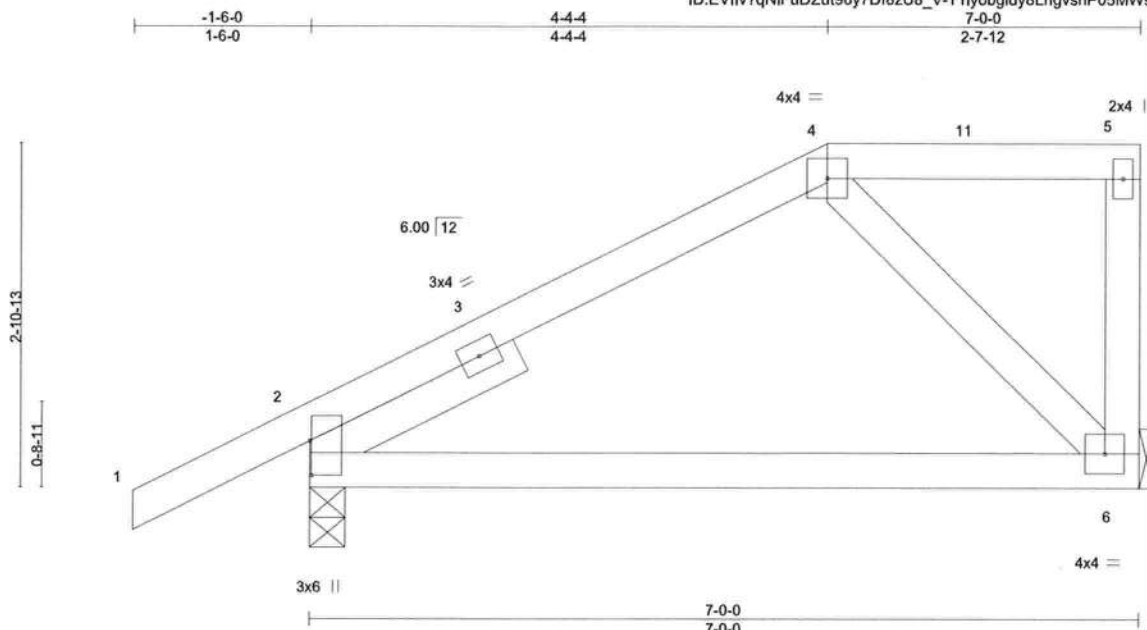
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waktorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC
2820748	EJ05	Half Hip	1	1	T24256134

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Scale = 1:18.7

Plate Offsets (X,Y)-- [2:0-3-8,0-0-2]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.05 6-9	>999	240
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.11 6-9	>768	180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01 2	n/a	n/a
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS					
						PLATES	GRIP		
						MT20	244/190		
						Weight: 36 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 - 1-11-8

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=Mechanical
Max Horz 2=98(LC 12)
Max Uplift 2=-85(LC 12), 6=-65(LC 12)
Max Grav 2=343(LC 1), 6=245(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-426/89

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-4-4, Exterior(2E) 4-4-4 to 6-10-4 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) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



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Date:

June 8, 2021

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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



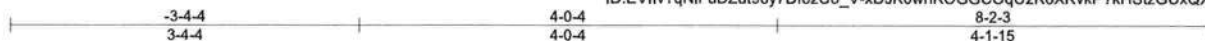
6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256135
2820748	HJ08	Roof Special Girder	1	1	Job Reference (optional)	

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Scale = 1:21.3

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	0.01	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.02				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 56 lb		FT = 20%	

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 5=0-3-9, 2=0-6-5
Max Horz 2=96(LC 4)
Max Uplift 5=-225(LC 8), 2=-315(LC 4)
Max Grav 5=388(LC 1), 2=534(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-466/246
BOT CHORD 2-6=-266/433, 5-6=-266/433
WEBS 3-5=-415/258

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; porch left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 5=225, 2=315.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 36 lb up at 2-1-8, 44 lb down and 75 lb up at 2-11-5, 12 lb down and 27 lb up at 5-2-2, and 65 lb down and 103 lb up at 6-7-3, and 28 lb down and 52 lb up at 7-4-15 on top chord, and 17 lb down and 27 lb up at 2-1-8, 23 lb down and 14 lb up at 2-11-5, 11 lb down and 17 lb up at 5-2-2, and 64 lb down and 74 lb up at 6-7-3, and 24 lb down and 28 lb up at 7-4-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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, 5-7=-20

Concentrated Loads (lb)

Vert: 11=19(B) 13=-65(F) 14=-21(B) 15=-8(F) 17=5(B) 18=-60(F) 19=-15(B)



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256136
2820748	HJ10	Diagonal Hip Girder	3	1	Job Reference (optional)	

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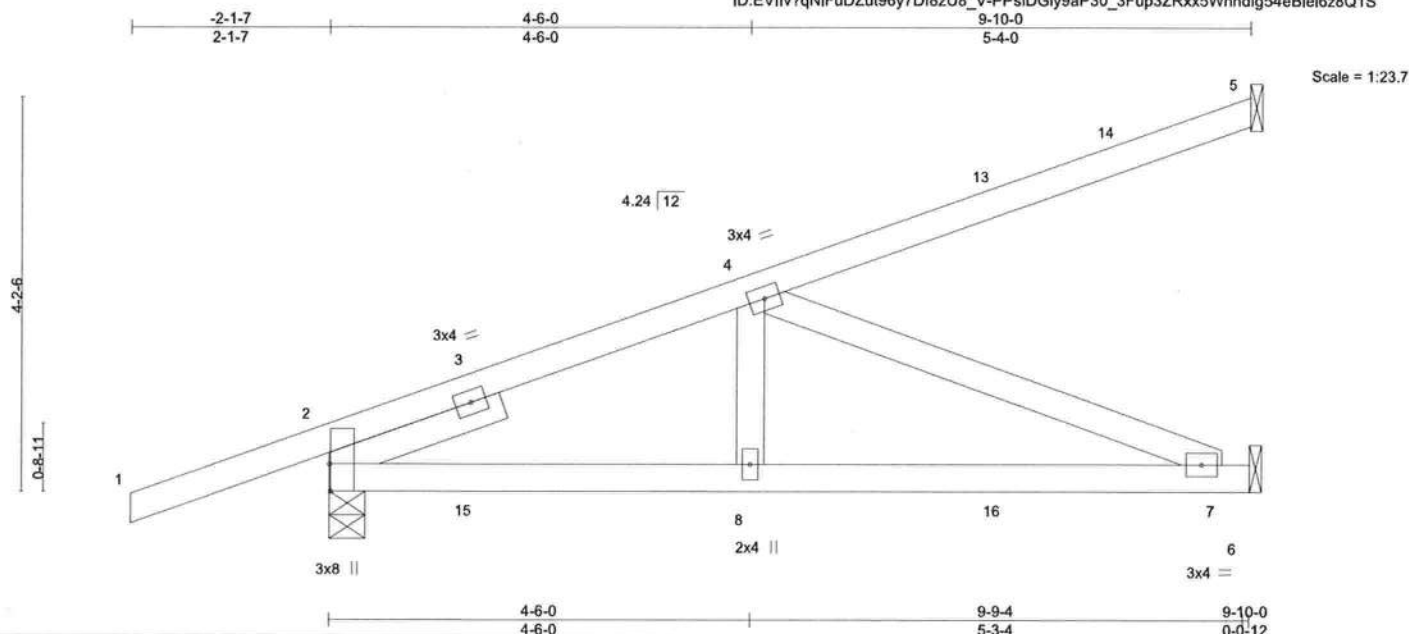


Plate Offsets (X,Y)-- [2:0-3-8,Edge]

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 0.65	Vert(LL)	0.06	7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.12	7-8	>964	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.38	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 47 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 - 1-11-8

BRACING-

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

REACTIONS.

(size) 5=Mechanical, 2=0-4-9, 6=Mechanical
Max Horz 2=149(LC 4)
Max Uplift 5=-85(LC 4), 2=-212(LC 4), 6=-112(LC 8)
Max Grav 5=158(LC 1), 2=512(LC 1), 6=299(LC 1)

FORCES.

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

TOP CHORD 2-4=-646/254
BOT CHORD 2-8=-297/588, 7-8=-297/588
WEBS 4-8=-14/257, 4-7=-633/320

NOTES-

- 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=212, 6=112.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10 lb down and 13 lb up at 1-6-0, 56 lb down and 116 lb up at 1-6-1, 27 lb down and 50 lb up at 4-3-15, 23 lb down and 43 lb up at 4-4-0, and 46 lb down and 86 lb up at 7-1-14, and 44 lb down and 82 lb up at 7-1-15 on top chord, and 1 lb down and 6 lb up at 1-6-0, 6 lb down and 44 lb up at 1-6-1, 19 lb down and 13 lb up at 4-3-15, 16 lb down and 25 lb up at 4-4-0, and 39 lb down and 20 lb up at 7-1-14, and 39 lb down and 17 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-5=-54, 6-9=-20

Concentrated Loads (lb)

Vert: 8=-13(F=-4, B=-10) 4=-4(F=-0, B=-3) 3=30(F) 13=-80(F=-37, B=-43) 15=-1(B) 16=-64(F=-29, B=-34)



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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC
2820748	HJ10A	Diagonal Hip Girder	1	1	T24256137

Builders FirstSource (Lake City, FL), Lake City, FL - 32055.

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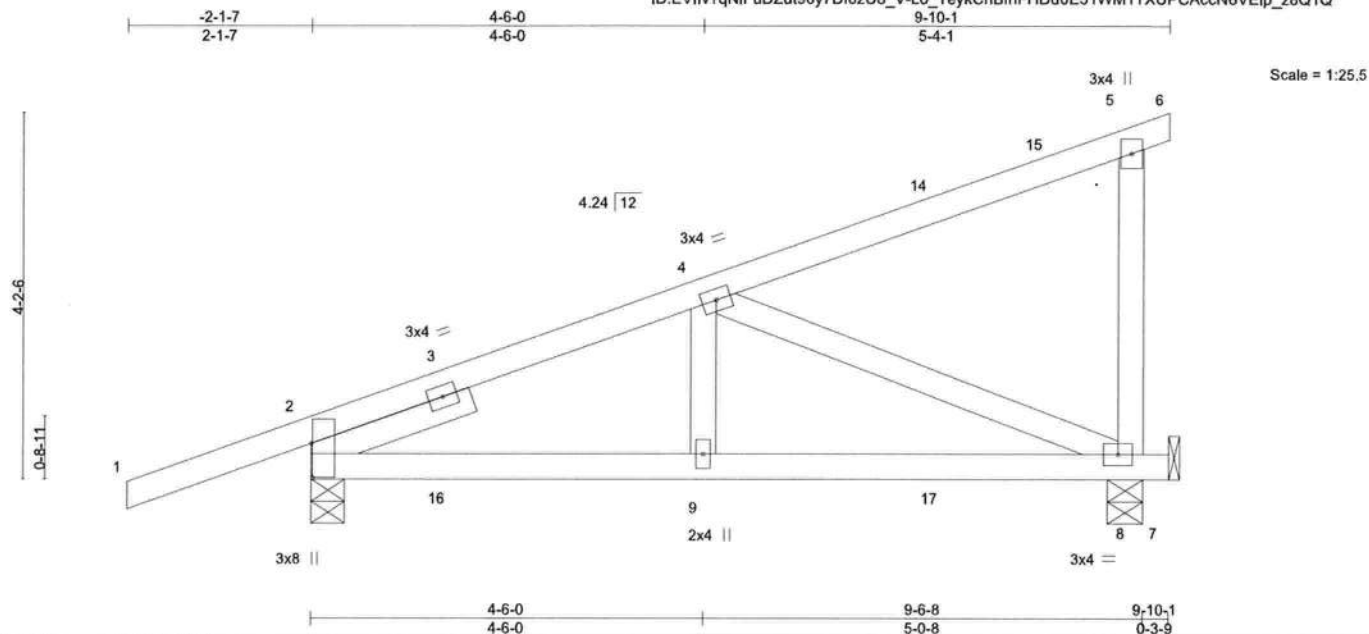


Plate Offsets (X,Y)-- [2-0-4-11,0-0-3]

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 0.49	Vert(LL)	0.02	9-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.04	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	-0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 52 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 - 1-11-8

BRACING-

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

REACTIONS.

(size) 2=0-4-9, 7=Mechanical, 8=0-4-15
Max Horz 2=148(LC 22)
Max Uplift 2=-232(LC 4), 7=-352(LC 3), 8=-286(LC 4)
Max Grav 2=450(LC 1), 7=56(LC 4), 8=727(LC 1)

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

TOP CHORD 2-4=-503/238
BOT CHORD 2-9=-282/451, 8-9=-282/451
WEBS 4-8=-458/287

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; porch left exposed; 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=232, 7=352, 8=286.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 116 lb up at 1-6-1, 56 lb down and 116 lb up at 1-6-1, 23 lb down and 43 lb up at 4-4-0, 23 lb down and 43 lb up at 4-4-0, and 44 lb down and 82 lb up at 7-1-15, and 44 lb down and 82 lb up at 7-1-15 on top chord, and 29 lb down and 44 lb up at 1-6-1, 29 lb down and 44 lb up at 1-6-1, 18 lb down and 25 lb up at 4-4-0, 18 lb down and 25 lb up at 4-4-0, and 40 lb down and 17 lb up at 7-1-15, and 40 lb down and 17 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 1-5=-54, 5-6=-54, 7-10=-20

Concentrated Loads (lb)

Vert: 9=-7(F=-4, B=-4) 4=-0(F=-0, B=-0) 3=60(F=30, B=30) 14=-73(F=-37, B=-37) 17=-58(F=-29, B=-29)



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 8, 2021

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

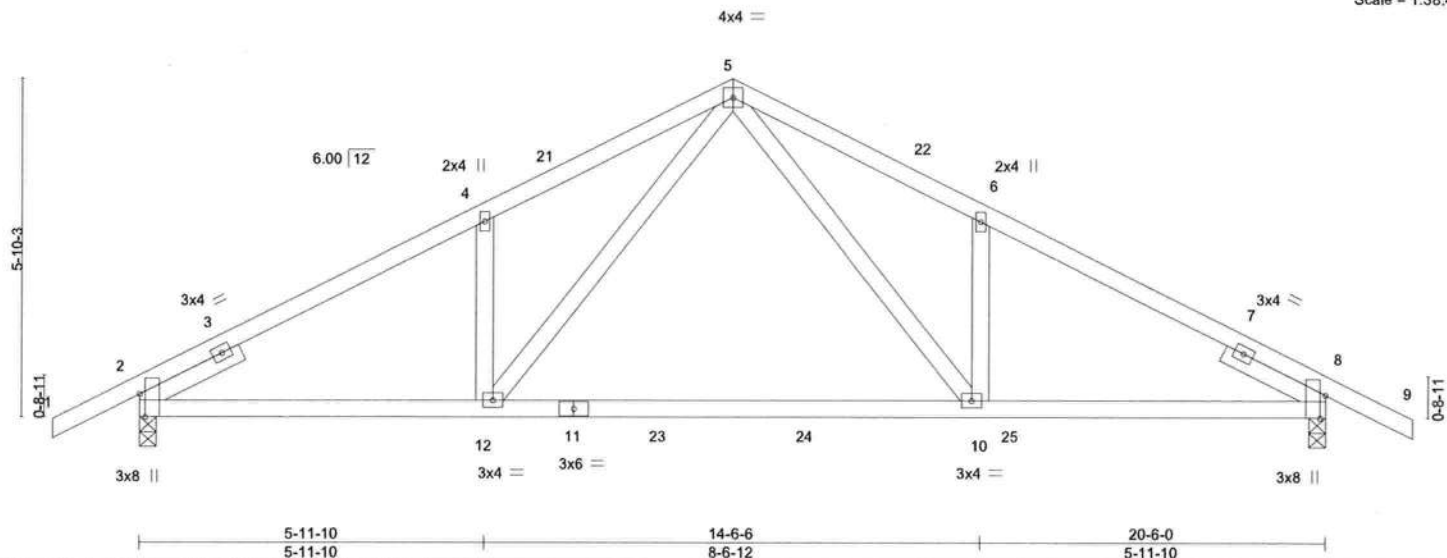


6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T01	Truss Type Common	Qty 8	Ply 1	CORNERSTON - LOT 85 EC	T24256138
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:28 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.82	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.65	Vert(LL) -0.33 10-12 >751 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.33	Vert(CT) -0.64 10-12 >384 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 8 n/a n/a		
	Code FBC2020/TPI2014			Weight: 105 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -t 1-11-8, Right 2x4 SP No.3 -t 1-11-8

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=87(LC 16)
Max Uplift 2=-260(LC 12), 8=-264(LC 13)
Max Grav 2=1125(LC 2), 8=1137(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1789/499, 4-5=-1743/583, 5-6=-1764/591, 6-8=-1811/508
BOT CHORD 2-12=-344/1569, 10-12=-199/1057, 8-10=-365/1557
WEBS 5-10=-272/870, 5-12=-262/837

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 10-3-0, Exterior(2R) 10-3-0 to 13-3-0, Interior(1) 13-3-0 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 8=264.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-9=-54, 12-13=-20, 12-25=-80(F=-60), 17-25=-20



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June 8,2021

Job 2820748	Truss T01G	Truss Type Common Supported Gable	Qty 1	Ply 1	CORNERSTON - LOT 85 EC Job Reference (optional)	T24256139
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:30 2021 Page 1
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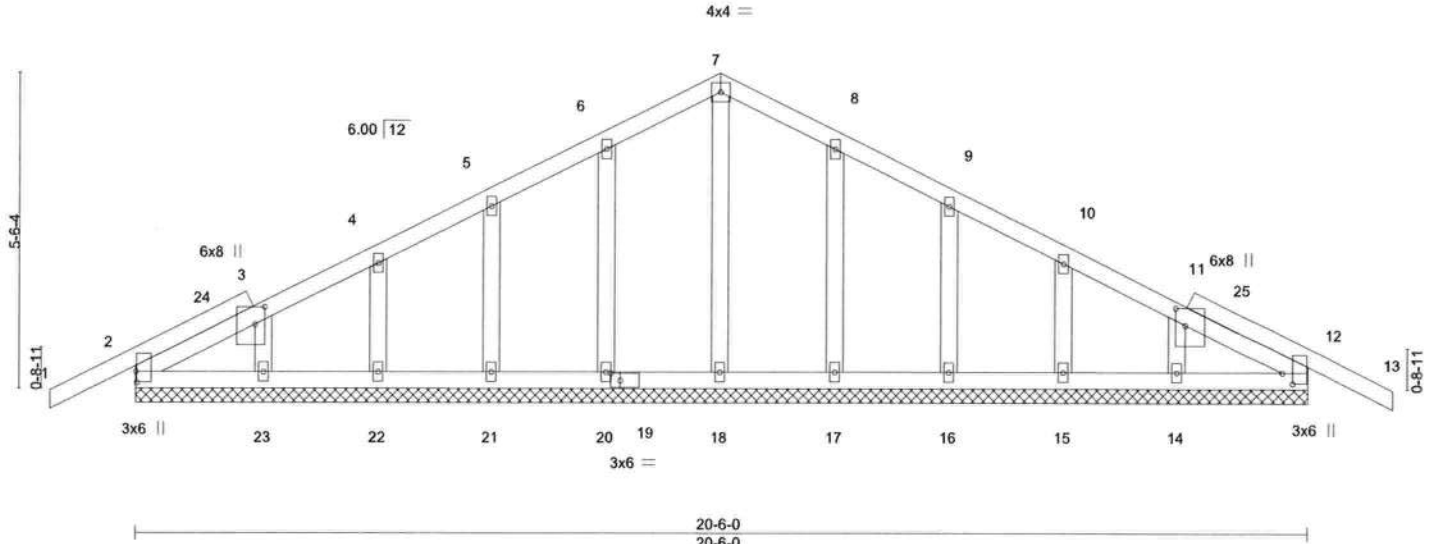


Plate Offsets (X,Y)-- [2:0-2-4,0-0-3], [3:0-3-10,0-2-0], [11:0-3-10,0-2-0], [12:0-2-4,0-2-3], [19:0-2-0,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.12	Vert(LL)	-0.01	13	n/r	120	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.04	Vert(CT)	-0.01	13	n/r	120	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.05	Horz(CT)	0.00	12	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 113 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 20-6-0.
(lb) - Max Horz 2=83(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 20, 21, 22, 23, 17, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 20, 21, 22, 23, 17, 16, 15, 14

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 10-3-0, Corner(3R) 10-3-0 to 13-3-0, Exterior(2N) 13-3-0 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 20, 21, 22, 23, 17, 16, 15, 14.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.



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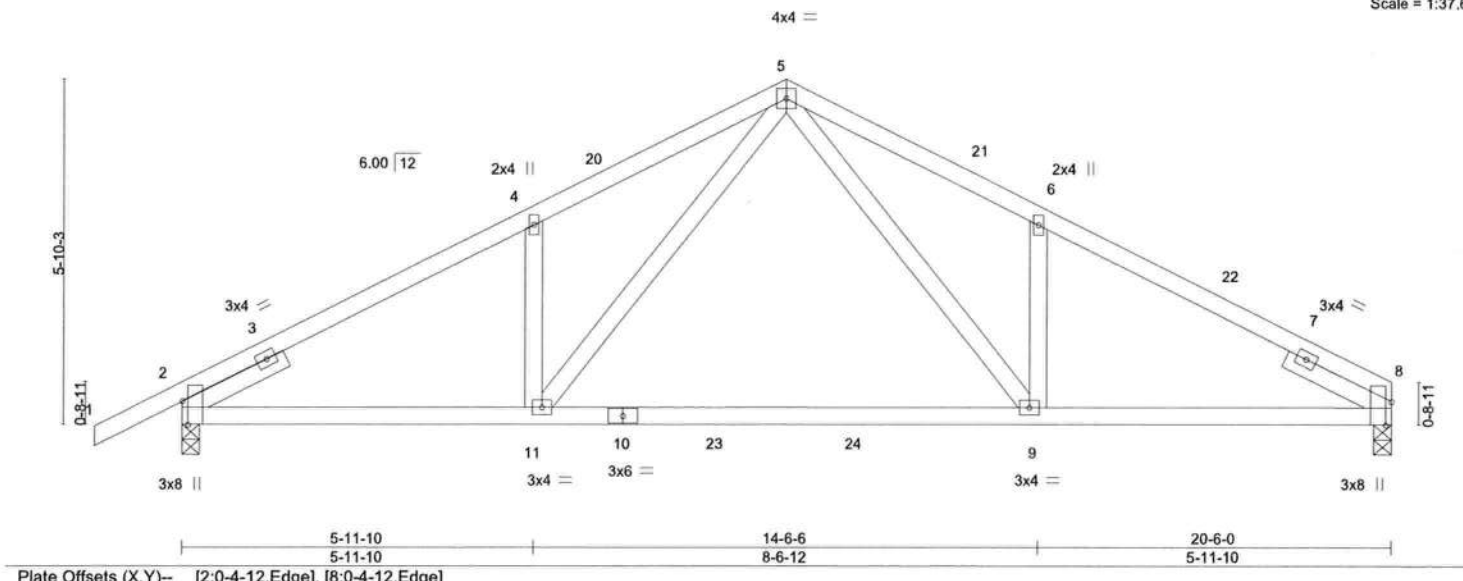


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256140
2820748	T02	Common	3	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:31 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.81	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.64	Vert(LL) -0.32 9-11 >767 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.32	Vert(CT) -0.63 9-11 >390 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.04 8 n/a n/a		
				Weight: 103 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -t 1-11-8, Right 2x4 SP No.3 -t 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=98(LC 12)
Max Uplift 8=-225(LC 13), 2=-258(LC 12)
Max Grav 8=1047(LC 2), 2=1118(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1775/499, 4-5=-1730/583, 5-6=-1742/590, 6-8=-1785/509
BOT CHORD 2-11=-383/1546, 9-11=-225/1035, 8-9=-383/1536
WEBS 5-9=-269/853, 5-11=-262/838

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 10-3-0, Exterior(2R) 10-3-0 to 13-3-0, Interior(1) 13-3-0 to 20-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=225, 2=258.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-8=-54, 11-16=-20, 9-11=-80(F=-60), 9-12=-20



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Date:

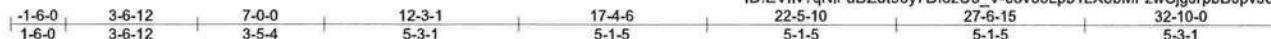
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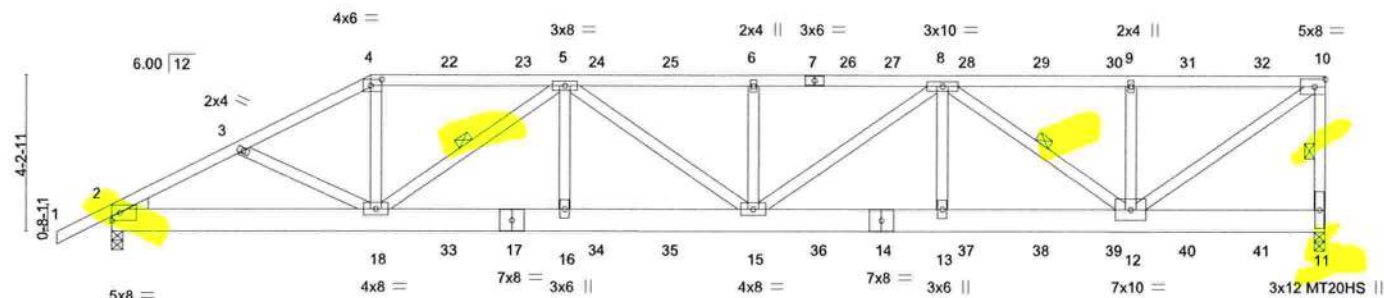


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8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:34 2021 Page 1
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Scale = 1:60.0



	<u>7-0-0</u>	<u>12-3-1</u>	<u>17-4-6</u>	<u>22-5-10</u>	<u>27-6-15</u>	<u>32-10-0</u>
	7-0-0	5-3-1	5-1-5	5-1-5	5-1-5	5-3-1
Plate Offsets (X,Y)--	[4:0-3-8,0-2-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/d _{defl} L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.78	Vert(LL) 0.25 15 >999	240	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.33	Vert(CT) -0.46 15-16 >855	180	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.86	Horz(CT) 0.07 11 n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS			Weight: 234 lb FT = 20%

LUMBER.

TOP CHORD 2x4 SP M 31 *Except*
1-4: 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
5-18.5-15.8-15.8-12.10-12: 2x4 SP No.2

WEDGE
Left: 2x4 SP No.3

REACTIONS.

(size) 11=0-3-8, 2=0-3-8
Max Horz 2=143(LC 8)
Max Uplift 11=-958(LC 5), 2=-818(LC 8)
Max Grav 11=2751(LC 1), 2=2455(LC 1)

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

TOP CHORD 2-3=-4428/1509, 3-4=-4309/1477, 4-5=-3890/1367, 5-6=-5746/1984, 6-8=-5746/1984,
8-9=-3121/1082, 9-10=-3121/1082, 10-11=-2556/933

BOT CHORD 8-18=-1421/3891, 16-18=-1904/5496, 15-16=-1904/5496, 13-15=-1747/5039,
12-13=-1747/5039

WEBS 4-18=-440/1484, 5-18=-2028/730, 5-16=-48/500, 5-15=-119/356, 6-15=-540/286,
8-15=-340/879, 8-13=-28/457, 8-12=-2385/827, 9-12=-637/342, 10-12=-1318/3822

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., GCp=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
11=958, 2=818.



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Date:

June 8.2021

Continued on page 2



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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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC	T24256141
2820748	T03	Half Hip Girder	1	1	Job Reference (optional)	

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8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:34 2021 Page 2
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NOTES-

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 93 lb up at 7-0-0, 110 lb down and 93 lb up at 9-0-12, 110 lb down and 93 lb up at 11-0-12, 110 lb down and 93 lb up at 13-0-12, 110 lb down and 93 lb up at 15-0-12, 110 lb down and 93 lb up at 17-0-12, 110 lb down and 92 lb up at 19-0-12, 110 lb down and 93 lb up at 21-0-12, 110 lb down and 93 lb up at 23-0-12, 110 lb down and 93 lb up at 25-0-12, 110 lb down and 93 lb up at 27-0-12, 110 lb down and 93 lb up at 29-0-12, and 110 lb down and 93 lb up at 31-0-12, and 110 lb down and 93 lb up at 31-3-4 on top chord, and 335 lb down and 163 lb up at 7-0-0, 84 lb down and 23 lb up at 9-0-12, 84 lb down and 23 lb up at 11-0-12, 84 lb down and 23 lb up at 13-0-12, 84 lb down and 23 lb up at 15-0-12, 84 lb down and 23 lb up at 17-0-12, 84 lb down and 23 lb up at 19-0-12, 84 lb down and 23 lb up at 21-0-12, 84 lb down and 23 lb up at 23-0-12, 84 lb down and 23 lb up at 25-0-12, 84 lb down and 23 lb up at 27-0-12, 84 lb down and 23 lb up at 29-0-12, and 84 lb down and 23 lb up at 31-0-12, and 84 lb down and 23 lb up at 31-3-4 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

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-10=-54, 11-19=-20

Concentrated Loads (lb)

Vert: 4=-110(F) 7=-110(F) 17=-64(F) 18=-335(F) 6=-110(F) 15=-64(F) 14=-64(F) 22=-110(F) 23=-110(F) 24=-110(F) 25=-110(F) 27=-110(F) 28=-110(F) 29=-110(F) 30=-110(F) 31=-110(F) 32=-219(F) 33=-64(F) 34=-64(F) 35=-64(F) 36=-64(F) 37=-64(F) 38=-64(F) 39=-64(F) 40=-64(F) 41=-129(F)



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

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T04	Truss Type Half Hip	Qty 1	Ply 1	CORNERSTON - LOT 85 EC T24256142
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:35 2021 Page 1
ID:EVlliv?qNlFuDZut96y7Df8zU8_V-6KTUJhqeEofeDWqAUwEvr2MrOj3L27SZykBA6Xz8Q1l

-1-6-0 1-6-0	4-10-14 4-10-14	9-0-0 4-1-2	15-10-4 6-10-4	22-6-11 6-8-7	30-2-0 7-7-5	32-10-0 2-8-0
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Scale = 1:58.8

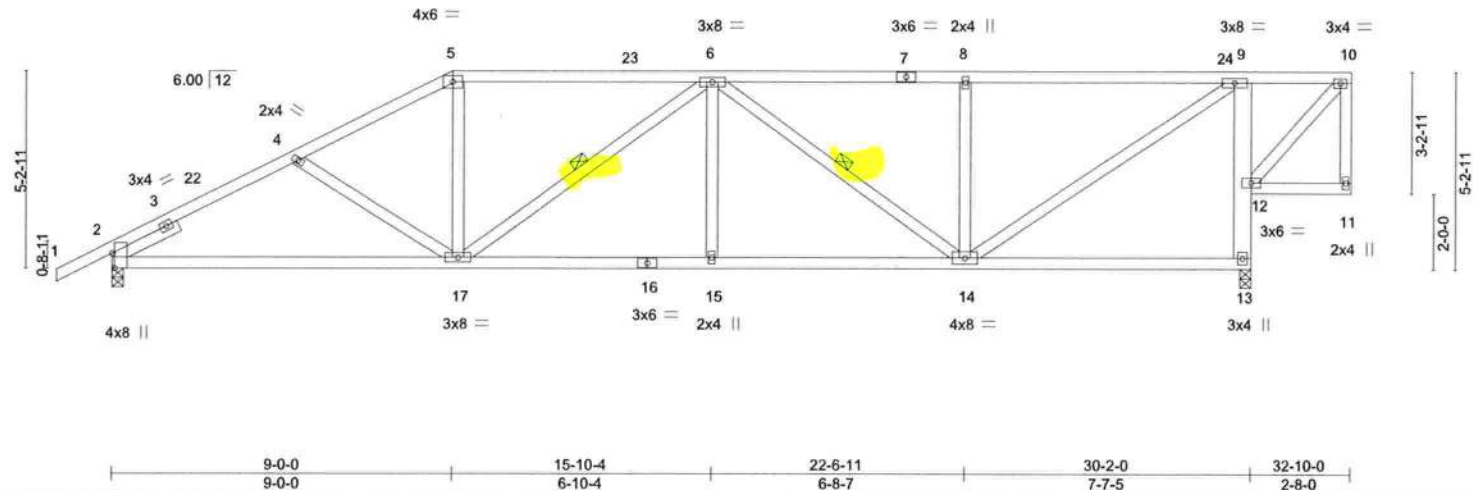


Plate Offsets (X,Y)-- [2:0-4-12,Edge]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.12 17-20	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.24 17-20	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.06 13	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						
Weight: 189 lb FT = 20%										

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-13: 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 - 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-17, 6-14

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=178(LC 12)
Max Uplift 2=-298(LC 12), 13=-347(LC 9)
Max Grav 2=1181(LC 1), 13=1319(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1773/459, 4-5=-1618/413, 5-6=-1431/402, 6-8=-1263/326, 8-9=-1263/326
BOT CHORD 2-17=-502/1527, 15-17=-444/1697, 14-15=-444/1697, 12-13=-1249/366, 9-12=-1159/367
WEBS 5-17=-43/452, 6-17=-422/156, 6-14=-539/212, 8-14=-372/181, 9-14=-385/1513

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 1-9-6, Interior(1) 1-9-6 to 9-0-0, Exterior(2R) 9-0-0 to 13-7-12, Interior(1) 13-7-12 to 32-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=298, 13=347.



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

June 8, 2021

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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



6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T05	Truss Type Hip	Qty 1	Ply 1	CORNERSTON - LOT 85 EC	T24256143
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,						Job Reference (optional)

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:37 2021 Page 1
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-1-6-0	5-9-10	11-0-0	18-4-0	25-8-0	30-2-0	32-10-0
1-6-0	5-9-10	5-2-6	7-4-0	7-4-0	4-6-0	2-8-0

Scale = 1:58.7

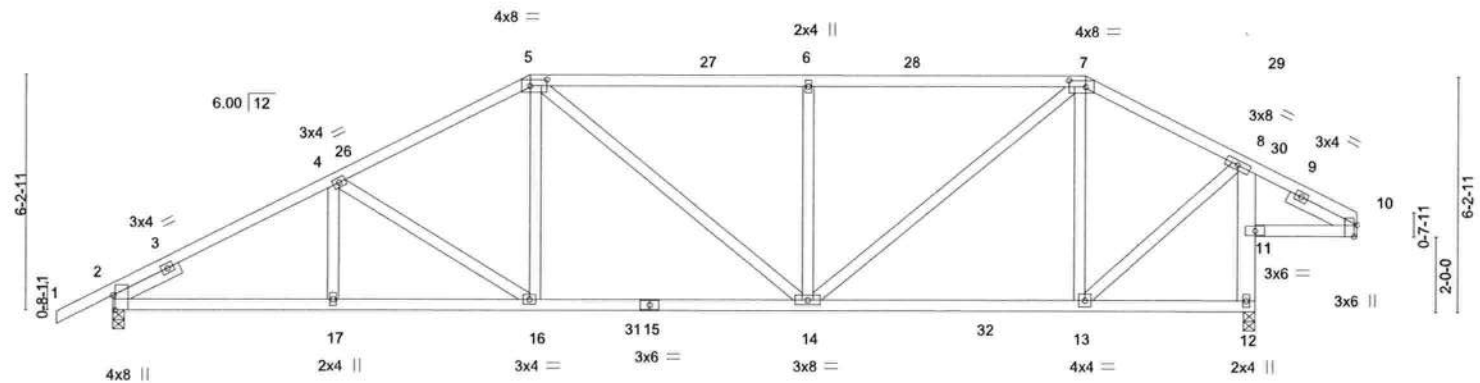


Plate Offsets (X,Y)--	[2:0-4-12,Edge], [5:0-5-4,0-2-0], [7:0-5-4,0-2-0], [10:0-3-12,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	-0.13 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.83	Vert(CT)	-0.24 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.06 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 191 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-12: 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 - 1-11-8, Right 2x4 SP No.3 - 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=142(LC 12)
Max Uplift 2=-287(LC 12), 12=-271(LC 13)
Max Grav 2=1269(LC 2), 12=1467(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1953/422, 4-5=-1658/378, 5-6=-1502/345, 6-7=-1502/345, 7-8=-900/207
BOT CHORD 2-17=-431/1693, 16-17=-431/1693, 14-16=-304/1460, 13-14=-133/754, 11-12=-1419/285,
8-11=-1353/283
WEBS 4-16=-315/151, 5-16=-44/439, 6-14=-458/222, 7-14=-226/973, 7-13=-498/154,
8-13=-179/1088

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 1-9-6, Interior(1) 1-9-6 to 11-0-0, Exterior(2R) 11-0-0 to 15-7-12, Interior(1) 15-7-12 to 25-8-0, Exterior(2R) 25-8-0 to 30-3-12, Interior(1) 30-3-12 to 32-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=287, 12=271.



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

June 8,2021

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

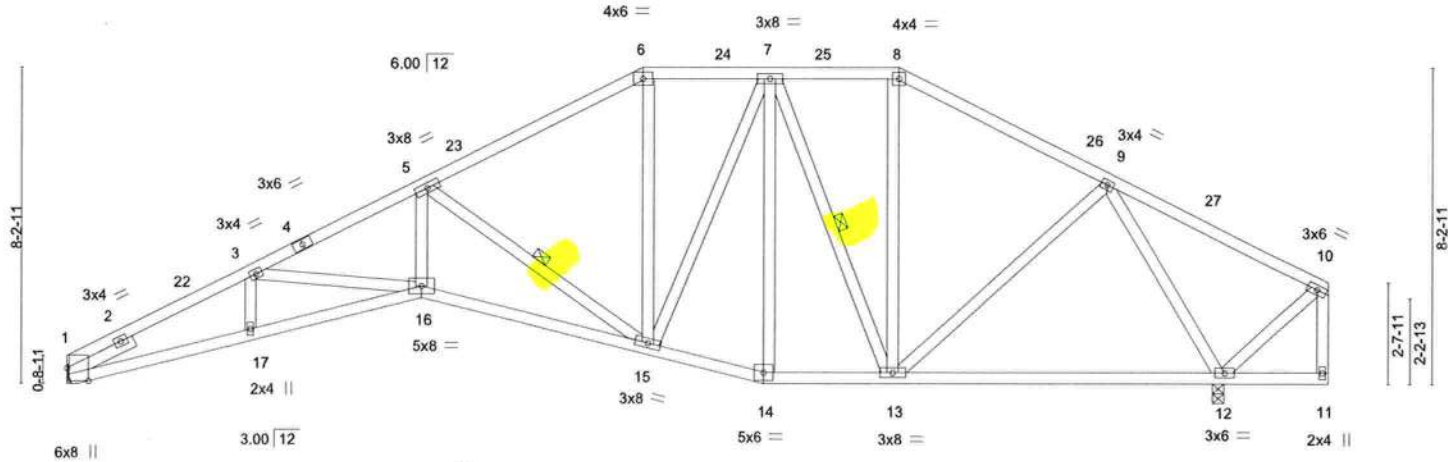
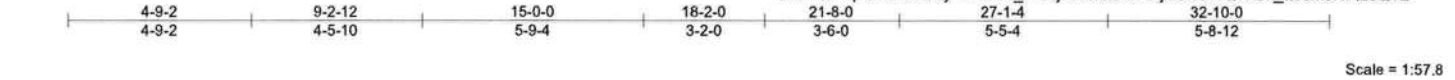


6904 Parke East Blvd.
Tampa, FL 33610

Job 2820748	Truss T07	Truss Type Hip	Qty 1	Ply 1	CORNERSTON - LOT 85 EC T24256145
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:39 2021 Page 1
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		4-9-2		9-2-12		15-0-0		18-2-0		21-8-0		30-2-0		32-10-0			
		4-9-2		4-5-10		5-9-4		3-2-0		3-6-0		8-6-0		2-8-0			
Plate Offsets (X,Y)-- [1:0-3-15,Edge]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		I/defl		L/d			
TCLL 20.0		Plate Grip DOL		1.25		TC 0.91		Vert(LL)		-0.21 16-17		>999		240			
TCDL 7.0		Lumber DOL		1.25		BC 0.67		Vert(CT)		-0.39 16-17		>920		180			
BCLL 0.0 *		Rep Stress Incr		YES		WB 0.87		Horz(CT)		0.21 12		n/a		n/a			
BCDL 10.0		Code FBC2020/TPI2014				Matrix-MS											
														PLATES		GRIP	
														MT20		244/190	
														Weight: 213 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
1-16: 2x4 SP M 31
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 - 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-15, 7-13

REACTIONS. (size) 1=Mechanical, 12=0-3-8
Max Horz 1=151(LC 12)
Max Uplift 1=-249(LC 12), 12=-260(LC 13)
Max Grav 1=1106(LC 1), 12=1313(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2872/736, 3-5=-2915/739, 5-6=-1376/348, 6-7=-1168/348, 7-8=-857/281, 8-9=-1031/281
BOT CHORD 1-17=-763/2536, 16-17=-772/2579, 15-16=-718/2686, 14-15=-187/1032, 13-14=-182/993, 12-13=-114/559
WEBS 5-16=-344/1394, 5-15=-1766/558, 6-15=-58/365, 7-15=-146/461, 7-13=-419/147, 8-13=-61/260, 9-13=-51/422, 9-12=-1243/303

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 3-3-6, Interior(1) 3-3-6 to 15-0-0, Exterior(2R) 15-0-0 to 19-7-12, Interior(1) 19-7-12 to 21-8-0, Exterior(2R) 21-8-0 to 26-3-12, Interior(1) 26-3-12 to 32-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=249, 12=260.



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

June 8,2021

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T08	Truss Type Hip	Qty 1	Ply 1	CORNERSTON - LOT 85 EC	T24256146
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:41 2021 Page 1

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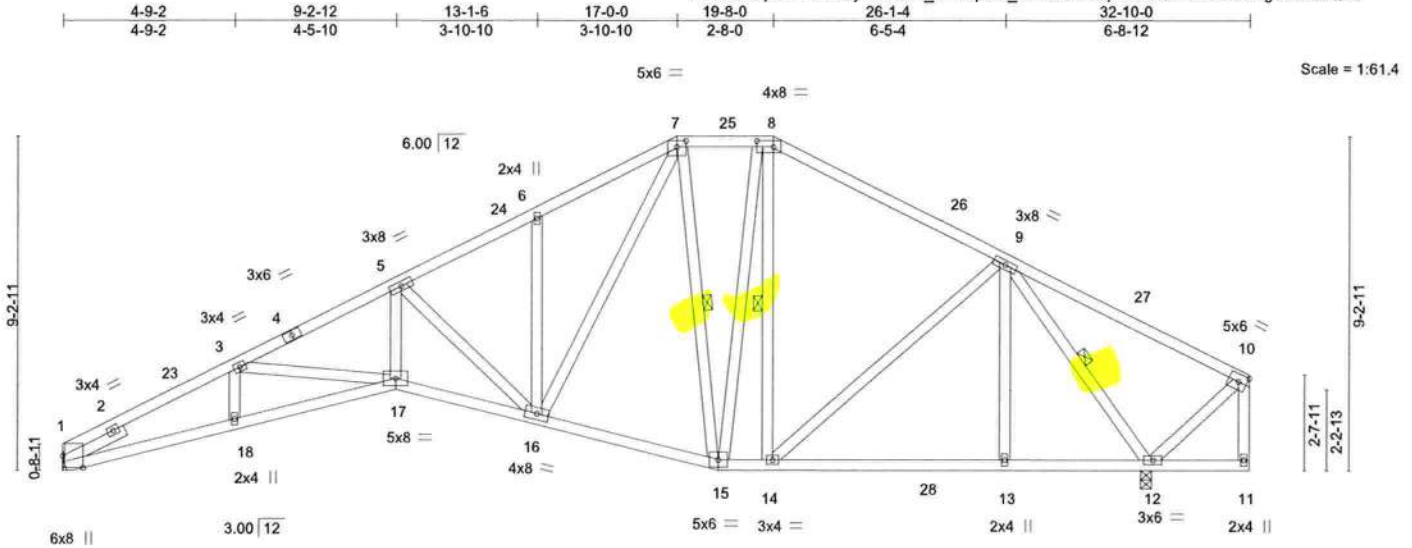


Plate Offsets (X, Y) -	4-9-2	9-2-12	13-1-6	18-2-0	19-8-0	26-1-4	30-2-0	32-10-0
	4-9-2	4-5-10	3-10-10	5-0-10	1-6-0	6-5-4	4-0-12	2-8-0
	[1:0-3-15, Edge], [7:0-3-0, 0-2-0], [8:0-5-8, 0-2-0]							

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.72	Vert(LL) -0.24 17-18 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.93	Vert(CT) -0.42 17-18 >859 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.21 12 n/a n/a		
	Code FBC2020/TPI2014			Weight: 224 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 7-0-3 oc bracing.
1-17: 2x4 SP M 31	WEBS 1 Row at midpt 7-15, 8-14, 9-12
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 - 1-11-8	

REACTIONS.	(size) 1=Mechanical, 12=0-3-8
	Max Horz 1=166(LC 12)
	Max Uplift 1=245(LC 12), 12=255(LC 13)
	Max Grav 1=1187(LC 2), 12=1428(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-3086/740, 3-5=-3100/729, 5-6=-1785/419, 6-7=-1785/497, 7-8=-958/299, 8-9=-1107/292
BOT CHORD	1-18=-781/2739, 17-18=-791/2782, 16-17=-718/2859, 15-16=-186/1067, 14-15=-135/925, 13-14=-123/761, 12-13=-123/761
WEBS	5-17=-361/1521, 5-16=-1674/491, 7-16=-360/1205, 7-15=-478/176, 8-15=-122/295, 9-14=-34/264, 9-13=0/269, 9-12=-1474/275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 3-3-6, Interior(1) 3-3-6 to 17-0-0, Exterior(2E) 17-0-0 to 19-8-0, Exterior(2R) 19-8-0 to 24-3-12, Interior(1) 24-3-12 to 32-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=245, 12=255.



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

June 8, 2021

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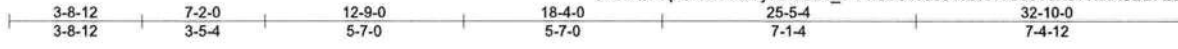
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T09	Truss Type Roof Special	Qty 1	Ply 1	CORNERSTON - LOT 85 EC T24256147
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055.

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:42 2021 Page 1

ID:EVllv?qNlFuDZut96y7Df8zU8_V-PhO7o4vd8oYfZbsWOusYdX8?WXR0BDXaZKN1rdz8Q1B



Scale = 1:62.2

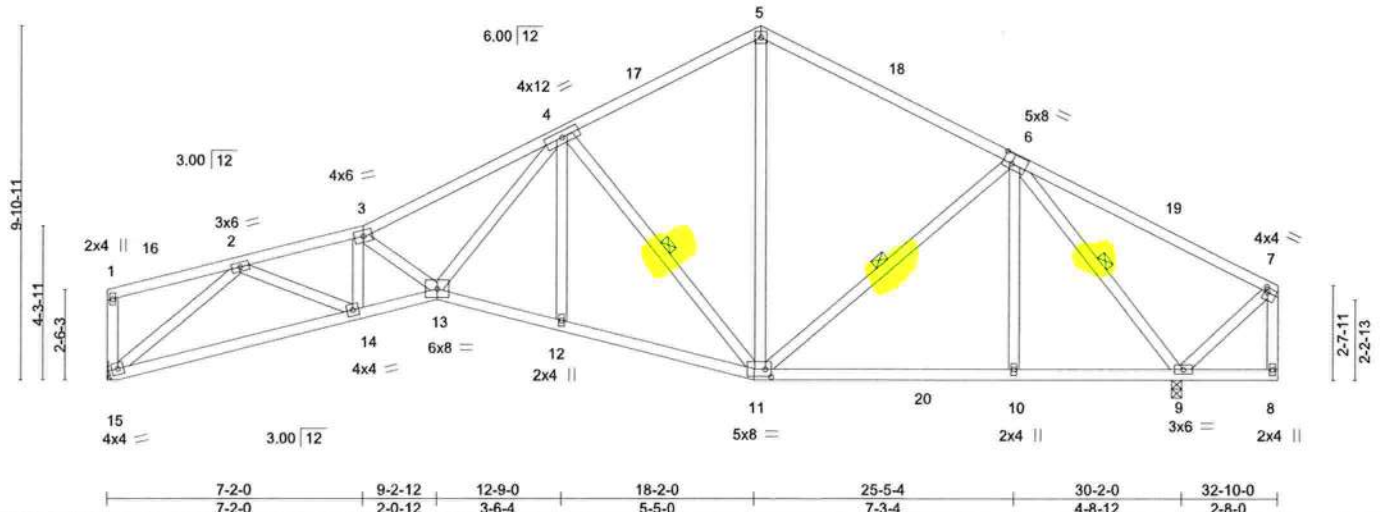


Plate Offsets (X,Y)-- [6:0-3-0,0-3-4], [7:0-1-0,0-1-8], [11:0-2-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.63	Vert(LL)	-0.17 13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.83	Vert(CT)	-0.30 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.94	Horz(CT)	0.17 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 208 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-9 oc bracing.
WEBS 1 Row at midpt 4-11, 6-11, 6-9

REACTIONS.

(size) 15=Mechanical, 9=0-3-8
Max Horz 15=112(LC 12)
Max Uplift 15=-243(LC 12), 9=-250(LC 13)
Max Grav 15=1184(LC 2), 9=1426(LC 2)

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

TOP CHORD 2-3=-2901/703, 3-4=-2978/764, 4-5=-1077/387, 5-6=-1085/374
BOT CHORD 14-15=-511/1672, 13-14=-731/2917, 12-13=-380/1685, 11-12=-381/1703, 10-11=-173/833, 9-10=-173/834
WEBS 2-15=-2065/538, 2-14=-252/1317, 3-14=-632/206, 3-13=-279/107, 4-13=-423/1641, 4-11=-1154/365, 5-11=-173/658, 6-10=0/329, 6-9=-1509/366

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-5-2, Interior(1) 3-5-2 to 18-4-0, Exterior(2R) 18-4-0 to 21-7-6, Interior(1) 21-7-6 to 32-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=243, 9=250.



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

June 8, 2021

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T10	Truss Type Roof Special	Qty 3	Ply 1	CORNERSTON - LOT 85 EC	T24256148
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055.

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:44 2021 Page 1
ID:EVllv7qNlFuDZut96y7Df8zU8_V-L3WuCmxtgPoNou0uVJu0iyEMnL7uf7h0es8wVz8Q19

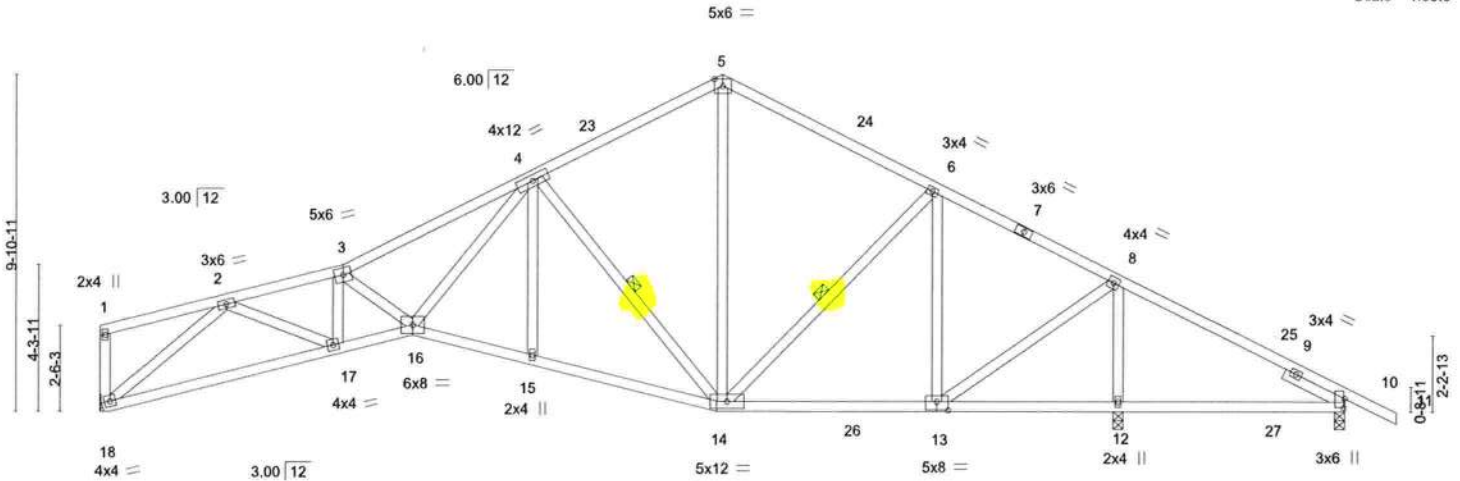


Plate Offsets (X,Y)--	[10:0-3-4,0-0-6], [13:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.80	Vert(LL) 0.11 12-21 >699 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.90	Vert(CT) -0.28 15-16 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.15 12 n/a n/a		
	Code FBC2020/TPI2014			Weight: 221 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-14, 6-14
SLIDER Right 2x4 SP No.3 -t 1-11-8	

REACTIONS.	(size) 18=Mechanical, 12=0-3-8, 10=0-3-8
Max Horz	18=-194(LC 13)
Max Uplift	18=-234(LC 12), 12=-256(LC 12), 10=-153(LC 13)
Max Grav	18=1138(LC 2), 12=1741(LC 2), 10=277(LC 24)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2761/723, 3-4=-2824/787, 4-5=-980/446, 5-6=-974/431, 6-8=-817/404, 8-10=-176/487
BOT CHORD	17-18=-426/1600, 16-17=-612/2774, 15-16=-303/1577, 14-15=-303/1596, 13-14=-178/678, 12-13=-383/112, 10-12=-383/112
WEBS	2-18=-1972/552, 2-17=-258/1246, 3-17=-590/211, 3-16=-293/112, 4-16=-364/1572, 4-14=-1125/338, 5-14=-224/572, 6-14=-49/306, 6-13=-512/145, 8-13=-177/1194, 8-12=-1484/275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-8-12, Interior(1) 3-8-12 to 18-4-0, Exterior(2R) 18-4-0 to 22-0-0, Interior(1) 22-0-0 to 38-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=234, 12=256, 10=153.



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Date:

June 8,2021

Job 2820748	Truss T11	Truss Type Roof Special Girder	Qty 1	Ply 2	CORNERSTON - LOT 85 EC	T24256149
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:49 2021 Page 1

ID:EVllv?qNIFuDZuI96y7Df8zU8_V-i1JnGT?0VYqfugvsIsUBP?xDIMwoKRxcAwavbjz8Q14

1-6-0	6-2-0	10-10-0	15-6-0	21-3-6	26-11-0	32-6-10	38-4-0	41-9-4	45-4-0	46-10-0
1-6-0	6-2-0	4-8-0	4-8-0	5-9-6	5-7-10	5-7-10	5-9-6	3-5-4	3-6-12	1-6-0

Scale = 1:80.2

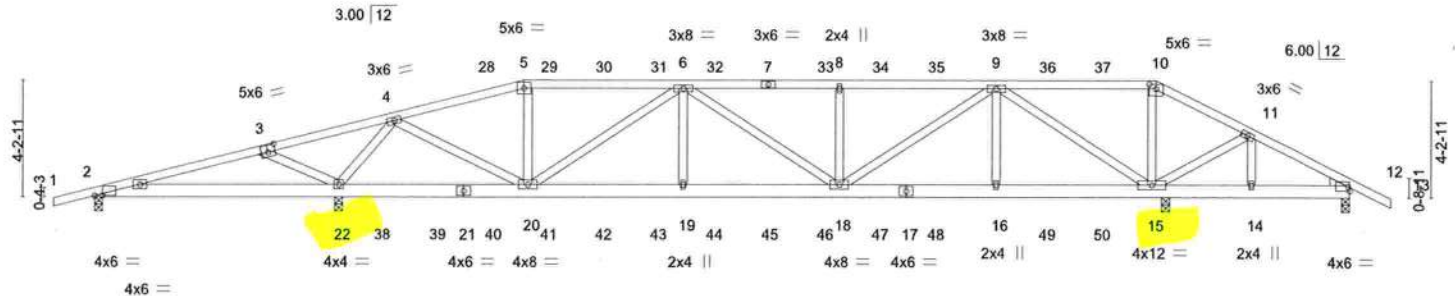


Plate Offsets (X,Y)--	8-9-12	15-6-0	21-3-6	26-11-0	32-6-10	38-4-0	38,10-0 41-9-4	45-4-0
	8-9-12	6-8-4	5-9-6	5-7-10	5-7-10	5-9-6	0-6-0 2-11-4	3-6-12

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.44	Vert(LL) -0.08 18-19 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.73	Vert(CT) -0.16 18-19 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 15 n/a n/a		
	Code FBC2020/TPI2014			Weight: 540 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

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

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-65(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-286(LC 30), 22=-1146(LC 4), 15=-1532(LC 4), 12=-841(LC 19)
Max Grav All reactions 250 lb or less at joint(s) 2 except 22=3131(LC 19), 15=3647(LC 1), 12=312(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-449/1287, 3-4=-576/1605, 4-5=-2377/862, 5-6=-2282/850, 6-8=-2904/1044, 8-9=-2904/1044, 9-10=-590/1799, 10-11=-666/2004, 11-12=-567/1664
BOT CHORD 2-22=-1239/449, 19-20=-1101/3257, 18-19=-1101/3257, 16-18=-412/1265, 15-16=-412/1265, 14-15=-1462/523, 12-14=-1462/523
WEBS 3-22=-415/227, 4-22=-2917/1052, 4-20=-802/2345, 6-20=-1198/419, 6-19=0/434, 6-18=-437/191, 8-18=-572/302, 9-18=-690/1996, 9-16=0/451, 9-15=-3669/1284, 10-15=-1316/509, 11-15=-431/177

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 2, 1146 lb uplift at joint 22, 1532 lb uplift at joint 15 and 841 lb uplift at joint 12.



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Date:

June 8,2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTON - LOT 85 EC
2820748	T11	Roof Special Girder	1	2	T24256149

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:49 2021 Page 2
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NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 87 lb up at 14-3-4, 114 lb down and 93 lb up at 16-3-4, 110 lb down and 93 lb up at 18-3-4, 110 lb down and 93 lb up at 20-3-4, 110 lb down and 93 lb up at 22-3-4, 110 lb down and 93 lb up at 24-3-4, 110 lb down and 91 lb up at 26-3-4, 110 lb down and 93 lb up at 28-3-4, 110 lb down and 93 lb up at 30-3-4, 110 lb down and 93 lb up at 32-3-4, 110 lb down and 93 lb up at 34-3-4, and 110 lb down and 93 lb up at 36-3-4, and 128 lb down and 93 lb up at 38-4-0 on top chord, and 225 lb down and 85 lb up at 10-3-4, 225 lb down and 99 lb up at 12-3-4, 264 lb down and 166 lb up at 14-3-4, 84 lb down and 23 lb up at 16-3-4, 84 lb down and 23 lb up at 18-3-4, 84 lb down and 23 lb up at 20-3-4, 84 lb down and 23 lb up at 22-3-4, 84 lb down and 23 lb up at 24-3-4, 84 lb down and 23 lb up at 26-3-4, 84 lb down and 23 lb up at 28-3-4, 84 lb down and 23 lb up at 30-3-4, 84 lb down and 23 lb up at 32-3-4, 84 lb down and 23 lb up at 34-3-4, and 84 lb down and 23 lb up at 36-3-4, and 122 lb down and 271 lb up at 38-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-54, 5-10=-54, 10-13=-54, 2-25=-20

Concentrated Loads (lb)

Vert: 7=-110(B) 10=-110(B) 16=-64(B) 9=-110(B) 15=155(B) 29=-110(B) 30=-110(B) 31=-110(B) 32=-110(B) 33=-110(B) 34=-110(B) 35=-110(B) 36=-110(B) 37=-110(B) 38=-225(B) 39=-225(B) 40=-264(B) 41=-64(B) 42=-64(B) 43=-64(B) 44=-64(B) 45=-64(B) 46=-64(B) 47=-64(B) 48=-64(B) 49=-64(B) 50=-64(B)



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6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T12	Truss Type Hip	Qty 1	Ply 1	CORNERSTON - LOT 85 EC T24256150
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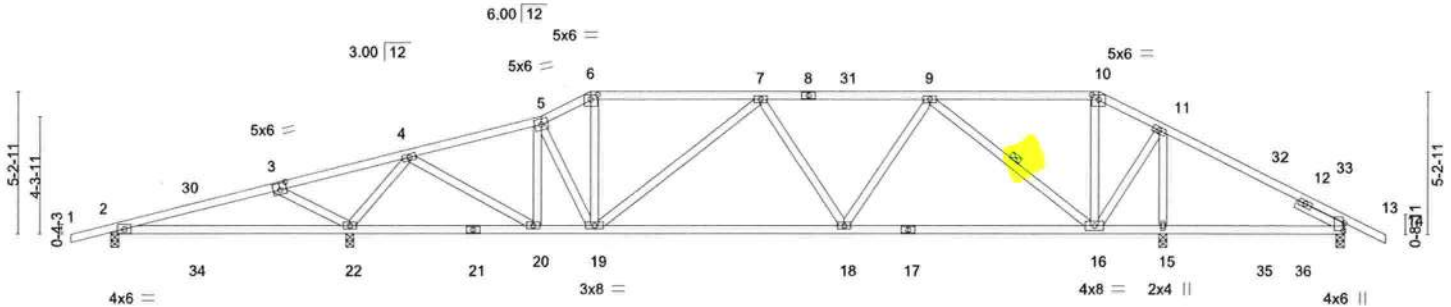
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:50 2021 Page 1

ID:EVllv?qNIFuDZut96y7Df8zU8_V-ADt9Tp?eGFYWWqU2sZ?QyDUO7m9T3xZmOaJT79z8Q13

1-6-0	6-2-0	11-0-0	15-10-0	17-8-0	23-10-11	30-1-5	36-4-0	38-8-4	45-4-0	46-10-0
1-6-0	6-2-0	4-10-0	4-10-0	1-10-0	6-2-11	6-2-11	6-2-11	2-4-4	6-7-12	1-6-0

Scale = 1:81.7



	8-9-12	15-10-0	17-8-0	27-0-0	36-4-0	38-8-4	45-4-0
	8-9-12	7-0-4	1-10-0	9-4-0	9-4-0	2-4-4	6-7-12

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-3-0,0-2-0], [10:0-3-0,0-2-0], [13:0-3-4,0-0-6]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.86	Vert(LL) 0.27 22-25 >392 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.55	Vert(CT) 0.23 22-25 >456 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 15 n/a n/a		
	Code FBC2020/TPI2014			Weight: 239 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -t 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-16

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-80(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-157(LC 8), 22=-503(LC 8), 15=-309(LC 8), 13=-145(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2 except 22=1675(LC 1), 15=1400(LC 1), 13=260(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-90/436, 3-4=-226/805, 4-5=-1151/380, 5-6=-1275/477, 6-7=-1139/446,
7-9=-1384/567, 9-10=-395/369, 10-11=-496/412, 11-13=-237/371
BOT CHORD 2-22=-407/110, 19-20=-228/1100, 18-19=-410/1448, 16-18=-371/1196, 15-16=-266/66,
13-15=-266/66
WEBS 3-22=-471/334, 4-22=-1570/445, 4-20=-249/1014, 5-20=-495/232, 6-19=-94/366,
7-19=-465/204, 9-18=-69/408, 9-16=-1077/302, 11-16=-183/964, 11-15=-1263/232

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 3-0-6, Interior(1) 3-0-6 to 17-8-0, Exterior(2R) 17-8-0 to 23-10-11, Interior(1) 23-10-11 to 36-4-0, Exterior(2R) 36-4-0 to 42-8-15, Interior(1) 42-8-15 to 46-10-0 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 2, 503 lb uplift at joint 22, 309 lb uplift at joint 15 and 145 lb uplift at joint 13.



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Date:

June 8, 2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T13	Truss Type Hip	Qty 1	Ply 1	CORNERSTON - LOT 85 EC	T24256151
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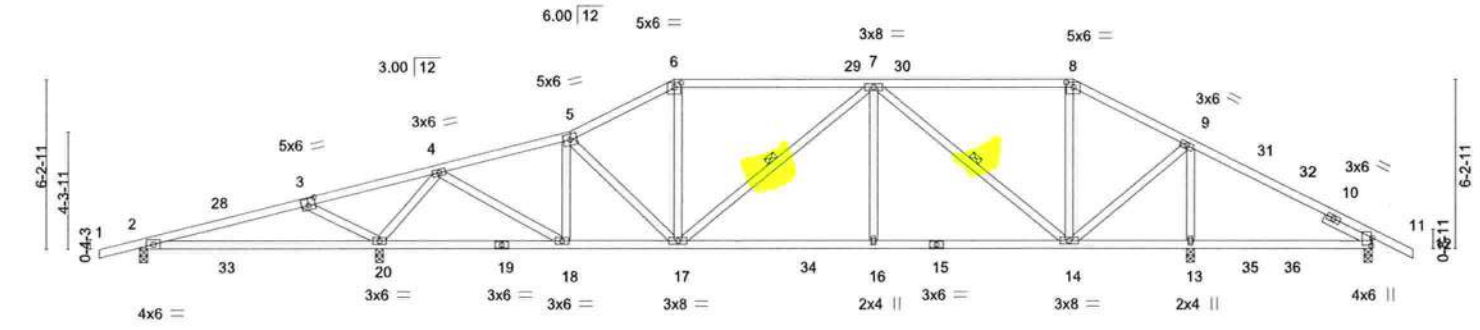
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:EVllv?qNlFuDZut96y7Df8zU8_V-6c?vuV1uotoEI7dRz_2u1eZjGZtcXrd3stoZC2z8Q11

1-6-0	6-2-0	11-0-0	15-10-0	19-8-0	27-0-0	34-4-0	38-8-4	45-4-0	46-10-0
1-6-0	6-2-0	4-10-0	4-10-0	3-10-0	7-4-0	7-4-0	4-4-4	6-7-12	1-6-0

Scale = 1:81.7



	8-9-12	15-10-0	19-8-0	27-0-0	34-4-0	38-8-4	45-4-0
	8-9-12	7-0-4	3-10-0	7-4-0	7-4-0	4-4-4	6-7-12

Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [6:0-3-0,0-2-0], [8:0-3-0,0-2-0], [11:0-3-4,0-0-6]
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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 0.61	Vert(LL)	0.27 20-23	>390	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	0.23 20-23	>453	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.04 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 242 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -t 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-17, 7-14

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-95(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-168(LC 8), 20=-463(LC 8), 13=-229(LC 8), 11=-160(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2 except 20=1817(LC 2), 13=1455(LC 2), 11=346(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-87/399, 3-4=-223/753, 4-5=-1335/403, 5-6=-1424/501, 6-7=-1254/478, 7-8=-741/434, 8-9=-879/455, 9-11=-247/403
BOT CHORD 2-20=-366/104, 18-20=-71/302, 17-18=-260/1284, 16-17=-344/1428, 14-16=-344/1428, 13-14=-263/93, 11-13=-263/93
WEBS 3-20=-471/336, 4-20=-1623/444, 4-18=-256/1143, 5-18=-442/225, 6-17=-80/391, 7-17=-308/120, 7-16=0/400, 7-14=-929/204, 9-14=-143/965, 9-13=-1226/210

- 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 3-0-6, Interior(1) 3-0-6 to 19-8-0, Exterior(2R) 19-8-0 to 26-0-15, Interior(1) 26-0-15 to 34-4-0, Exterior(2R) 34-4-0 to 40-8-15, Interior(1) 40-8-15 to 46-10-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) 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 168 lb uplift at joint 2, 463 lb uplift at joint 20, 229 lb uplift at joint 13 and 160 lb uplift at joint 11.



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

June 8,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T14	Truss Type Hip	Qty 1	Ply 1	CORNERSTON - LOT 85 EC	T24256152
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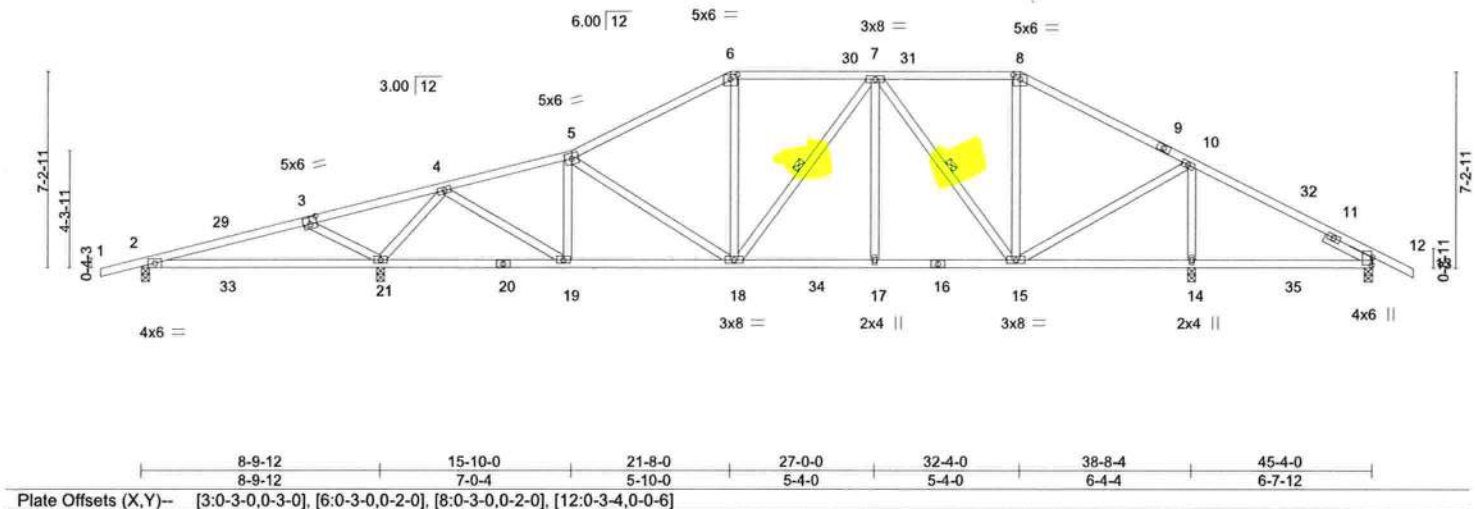
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:14:53 2021 Page 1

ID:EVllv?qnIFuDu96y7Df8zU8_V-aoZl5r2WZAw5NHcdXlZ7ar5vQzF2Glc5Xy7kUz8Q10

1-6-0	6-2-0	11-2-0	15-10-0	21-8-0	27-0-0	32-4-0	38-8-4	45-4-0	46-10-0
1-6-0	6-2-0	5-0-0	4-8-0	5-10-0	5-4-0	5-4-0	6-4-4	6-7-12	1-6-0

Scale = 1:81.7



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 0.52	Vert(LL) 0.27	21-24	>389	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.54	Vert(CT) 0.23	21-24	>454	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.03	14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 250 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -t 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-18, 7-15

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-110(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-177(LC 8), 21=-422(LC 8), 14=-209(LC 13), 12=-148(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2 except 21=1807(LC 2), 14=1441(LC 2), 12=354(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-89/380, 3-4=-230/730, 4-5=-1366/424, 5-6=-1358/499, 6-7=-1171/497,
7-8=-855/452, 8-10=-1026/465, 10-12=-222/451
BOT CHORD 2-21=-325/103, 19-21=-89/375, 18-19=-296/1315, 17-18=-268/1194, 15-17=-268/1194
WEBS 3-21=-484/342, 4-21=-1653/468, 4-19=-269/1106, 5-19=-413/236, 6-18=-62/355,
7-17=0/274, 7-15=-611/143, 10-15=-93/909, 10-14=-1175/238

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 3-0-6, Interior(1) 3-0-6 to 21-8-0, Exterior(2R) 21-8-0 to 28-0-15, Interior(1) 28-0-15 to 32-4-0, Exterior(2R) 32-4-0 to 38-8-4, Interior(1) 38-8-4 to 46-10-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 2, 422 lb uplift at joint 21, 209 lb uplift at joint 14 and 148 lb uplift at joint 12.



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Date:

June 8, 2021

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



6904 Parke East Blvd.
Tampa, FL 33610

Scale = 1:83.1

Job 2820748	Truss T16	Truss Type Hip	Qty 1	Ply 1	CORNERSTON - LOT 85 EC T24256154
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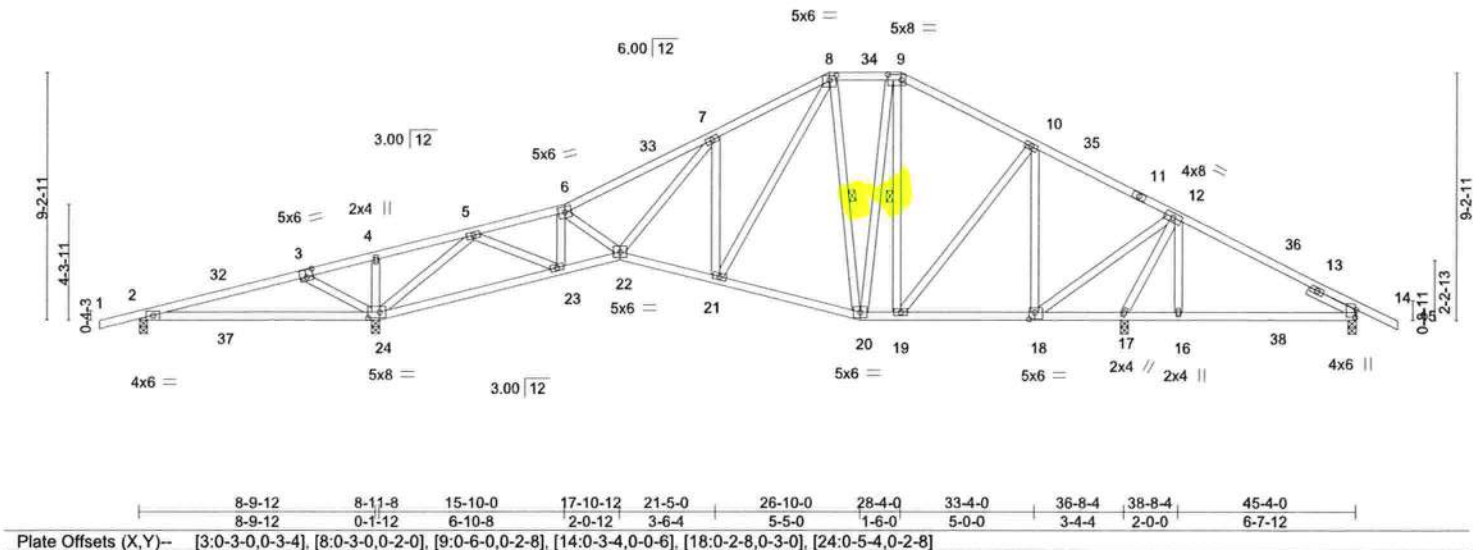
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:EVllv?qNlFuDZut96y7Df8zU8_V-TZooxD51cPRXsuWomYd3khGY_ac3C06o?9WksFz8Q0y

1-6-0	6-2-0	8-11-8	12-4-12	15-10-0	21-5-0	25-8-0	28-4-0	33-4-0	38-8-4	45-4-0	46-10-0
1-6-0	6-2-0	2-9-8	3-5-4	3-5-4	5-7-0	4-3-0	2-8-0	5-0-0	5-4-4	6-7-12	1-6-0

Scale = 1:82.7



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)	0.34 24-27	>321	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.30 24-27	>356	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.07 17	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 283 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -t 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-1 oc bracing.
WEBS 1 Row at midpt 8-20, 9-19

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-140(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-189(LC 8), 24=-450(LC 12), 17=-192(LC 13), 14=-164(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2 except 24=1769(LC 1), 17=1288(LC 1), 14=433(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-254/881, 3-4=-378/1262, 4-5=-360/1294, 5-6=-1361/386, 6-7=-1635/533, 7-8=-1179/554, 8-9=-581/380, 9-10=-682/382, 10-12=-491/324, 12-14=-278/400
BOT CHORD 2-24=-806/158, 22-23=-295/1380, 21-22=-209/1028, 20-21=-72/656, 19-20=-50/548, 18-19=-105/376, 17-18=-547/143, 16-17=-273/241, 14-16=-277/243
WEBS 3-24=-483/400, 5-24=-1942/562, 5-23=-273/1203, 6-23=-667/264, 7-22=-157/678, 7-21=-644/304, 8-21=-271/762, 8-20=-373/125, 9-20=-94/285, 10-19=-42/349, 10-18=-582/130, 12-18=-166/1130, 12-17=-1423/600, 12-16=-312/229

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 3-0-6, Interior(1) 3-0-6 to 25-8-0, Exterior(2E) 25-8-0 to 28-4-0, Exterior(2R) 28-4-0 to 34-8-15, Interior(1) 34-8-15 to 46-10-0 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 2, 450 lb uplift at joint 24, 192 lb uplift at joint 17 and 164 lb uplift at joint 14.



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Date:

June 8, 2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2820748	Truss T18	Truss Type Roof Special	Qty 2	Ply 1	CORNERSTON - LOT 85 EC T24256156
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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1-6-0 6-2-0 8-11-8 12-4-12 15-10-0 21-5-0 27-0-0 33-4-0 38-8-4 45-4-0 46-10-0
1-6-0 6-2-0 2-9-8 3-5-4 3-5-4 5-7-0 5-7-0 6-4-0 5-4-4 6-7-12 1-6-0

Scale = 1:81.3

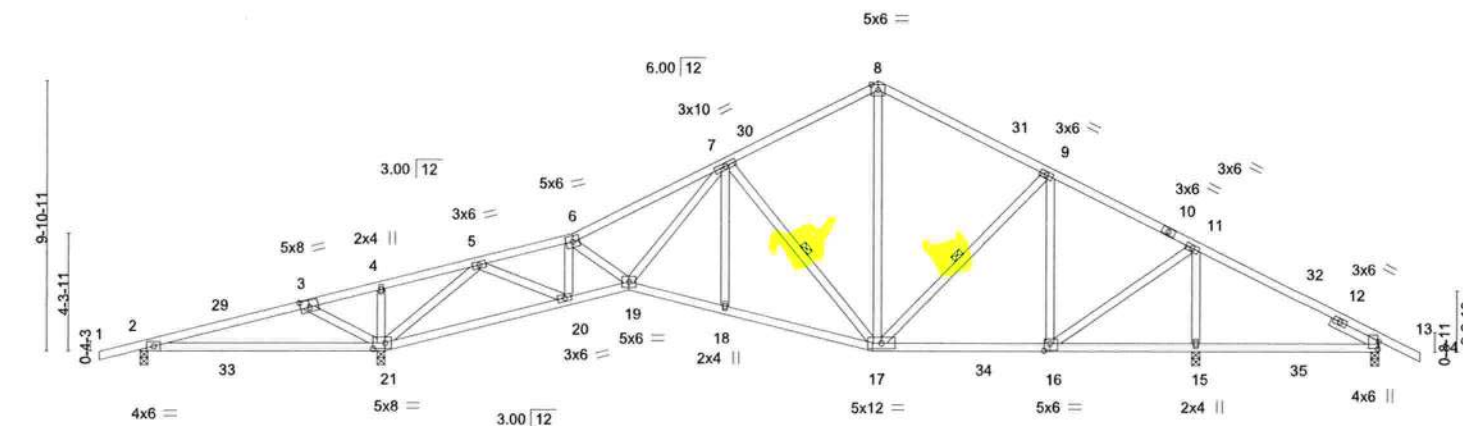


Plate Offsets (X, Y)--	[3:0-4-0,0-3-0], [13:0-3-4,0-0-6], [16:0-2-8,0-3-0], [21:0-5-4,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.64	Vert(LL) 0.33 21-24 >321 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.99	Vert(CT) -0.31 21-24 >351 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 15 n/a n/a		
	Code FBC2020/TPI2014			Weight: 254 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 - 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-5-13 oc bracing.
WEBS 1 Row at midpt 7-17, 9-17

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-149(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-195(LC 8), 21=-457(LC 12), 15=-191(LC 12), 13=-157(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2 except 21=1978(LC 2), 15=1485(LC 2), 13=338(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-255/1042, 3-4=-378/1377, 4-5=-360/1407, 5-6=-1644/427, 6-7=-1971/576, 7-8=-874/425, 8-9=-871/412, 9-11=-819/411, 11-13=-212/393
BOT CHORD 2-21=-942/176, 20-21=-88/342, 19-20=-332/1670, 18-19=-228/1263, 17-18=-228/1281, 16-17=-184/681
WEBS 3-21=-484/400, 5-21=-2180/574, 5-20=-280/1440, 6-20=-734/269, 7-19=-172/823, 7-17=-787/252, 8-17=-204/480, 9-16=-382/109, 11-16=-117/975, 11-15=-1239/213

- 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 3-0-6, Interior(1) 3-0-6 to 27-0-0, Exterior(2R) 27-0-0 to 31-6-6, Interior(1) 31-6-6 to 46-10-0 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 2, 457 lb uplift at joint 21, 191 lb uplift at joint 15 and 157 lb uplift at joint 13.



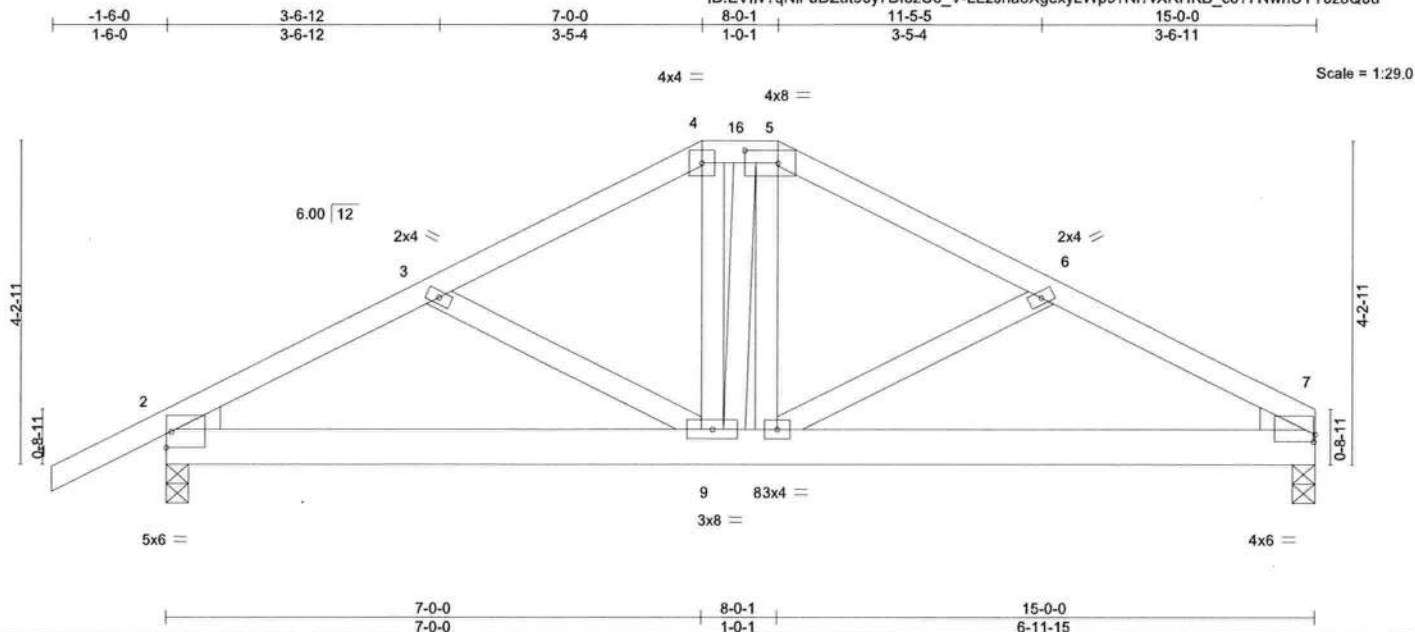
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 8, 2021

Job 2820748	Truss T19	Truss Type Hip Girder	Qty 1	Ply 1	CORNERSTON - LOT 85 EC T24256157
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:15:01 2021 Page 1
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Scale = 1:29.0

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.46	Vert(LL)	-0.05	8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.08	8	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.18	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 92 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-7-14 oc bracing.

REACTIONS.

(size) 7=0-3-8, 2=0-3-8
Max Horz 2=74(LC 8)
Max Uplift 7=-343(LC 9), 2=-376(LC 8)
Max Grav 7=1039(LC 1), 2=1123(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1750/620, 3-4=-1590/578, 4-5=-1411/545, 5-6=-1593/587, 6-7=-1764/625
BOT CHORD 2-9=-561/1505, 8-9=-472/1408, 7-8=-515/1522
WEBS 4-9=-156/465, 5-8=-109/387

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 343 lb uplift at joint 7 and 376 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 90 lb up at 7-0-0, and 239 lb down and 180 lb up at 8-0-1 on top chord, and 335 lb down and 163 lb up at 7-0-0, and 335 lb down and 163 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-54, 5-7=-54, 10-13=-20
Concentrated Loads (lb)
Vert: 4=-110(B) 5=-191(B) 9=-335(B) 8=-335(B)



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6904 Parke East Blvd. Tampa FL 33610
Date:

June 8,2021

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



6904 Parke East Blvd.
Tampa, FL 33610

Job 2820748	Truss T20	Truss Type Common Girder	Qty 1	Ply 2	CORNERSTON - LOT 85 EC T24256158
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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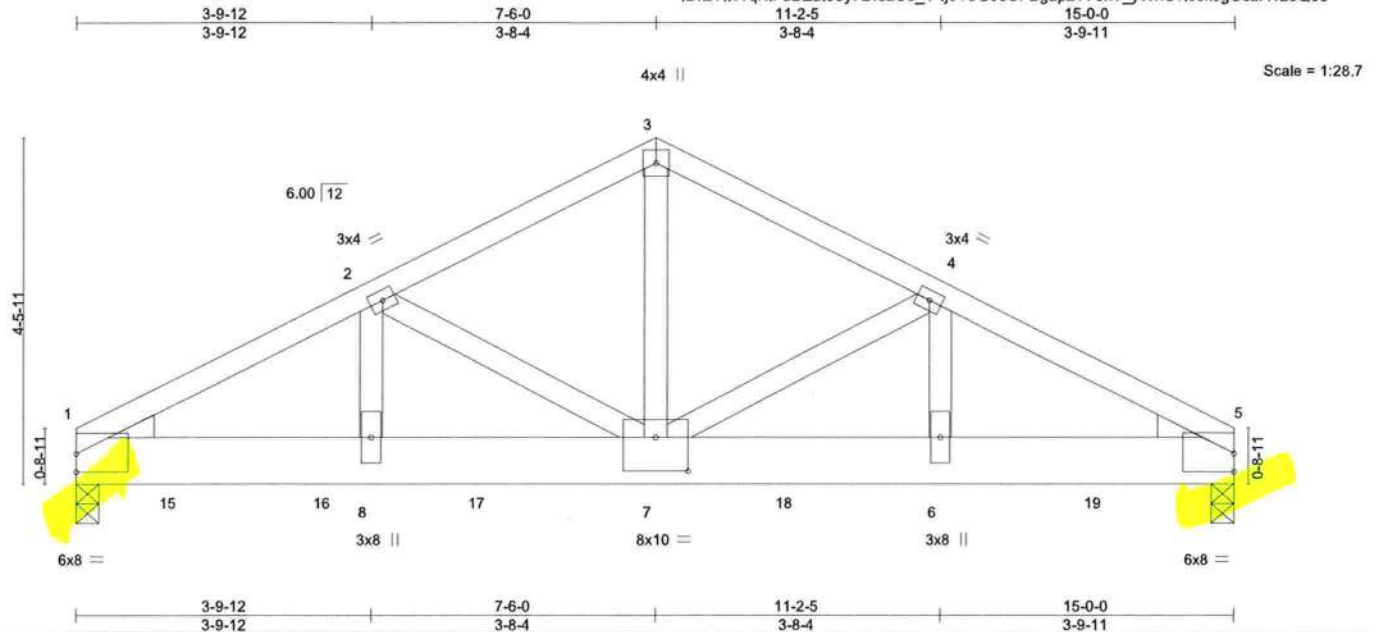


Plate Offsets (X,Y)-- [1:0-0-0,0-2-13], [5:Edge,0-2-14], [7:0-5-0,0-5-4]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.24	Vert(LL) -0.07 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.84	Vert(CT) -0.12 6-7 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 190 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 5=0-3-8
Max Horz 1=56(LC 27)
Max Uplift 1=-1021(LC 8), 5=-941(LC 9)
Max Grav 1=4479(LC 2), 5=4275(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6532/1485, 2-3=-5180/1167, 3-4=-5179/1167, 4-5=-6671/1470
BOT CHORD 1-8=-1341/5796, 7-8=-1341/5796, 6-7=-1270/5918, 5-6=-1270/5918
WEBS 3-7=-958/4397, 4-7=-1528/395, 4-6=-265/1356, 2-7=-1500/412, 2-8=-279/1281

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1021 lb uplift at joint 1 and 941 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1172 lb down and 272 lb up at 1-2-12, 1086 lb down and 269 lb up at 3-2-12, 1167 lb down and 265 lb up at 5-2-12, 1164 lb down and 263 lb up at 7-2-12, 1118 lb down and 254 lb up at 9-2-12, and 1118 lb down and 254 lb up at 11-2-12, and 1118 lb down and 254 lb up at 13-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



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6904 Parke East Blvd.
Tampa, FL 33610

Job 2820748	Truss T20	Truss Type Common Girder	Qty 1	Ply 2	CORNERSTON - LOT 85 EC T24256158
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8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:15:03 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 9-12=-20

Concentrated Loads (lb)

Vert: 6=-1041(F) 7=-1082(F) 15=-1085(F) 16=-1086(F) 17=-1087(F) 18=-1041(F) 19=-1041(F)



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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



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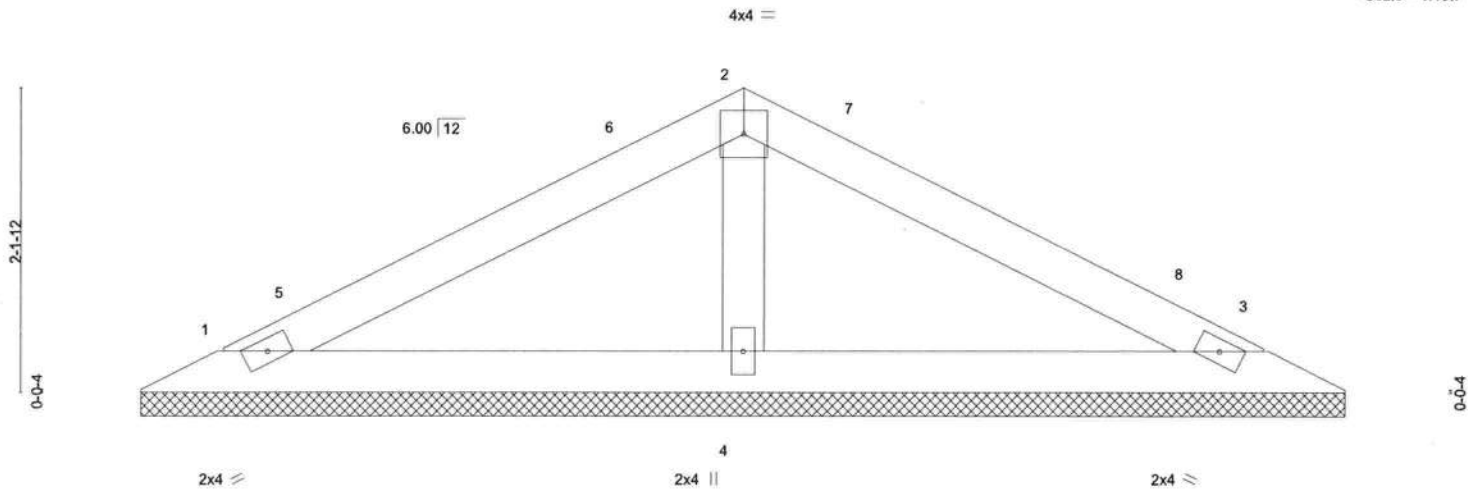
Job 2820748	Truss V01	Truss Type Valley	Qty 1	Ply 1	CORNERSTON - LOT 85 EC T24256159
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 07:15:04 2021 Page 1
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Scale = 1:15.7



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 27 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=8-6-2, 3=8-6-2, 4=8-6-2
Max Horz 1=27(LC 12)
Max Uplift 1=-35(LC 12), 3=-40(LC 13), 4=-43(LC 12)
Max Grav 1=125(LC 23), 3=125(LC 24), 4=296(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-3-9, Exterior(2R) 4-3-9 to 7-3-9, Interior(1) 7-3-9 to 7-11-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 40 lb uplift at joint 3 and 43 lb uplift at joint 4.



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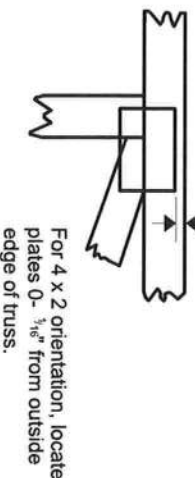
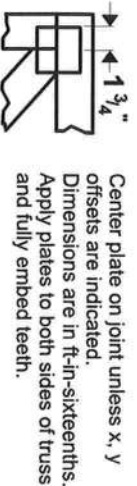
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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Symbols

PLATE LOCATION AND ORIENTATION

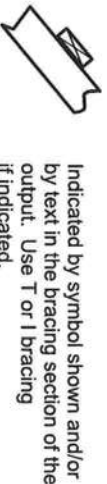


* Plate location details available in MiTek 20/20 software or upon request.

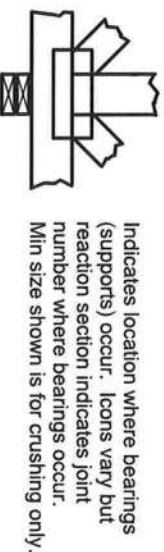
PLATE SIZE

4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



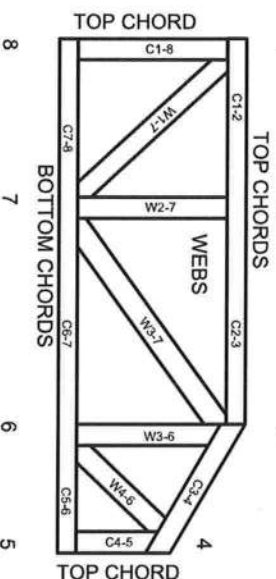
BEARING



Industry Standards:

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

Numbering System



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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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