



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

RE: Alesi_Porch_Add - Alesi Porch Add

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

Site Information:

Customer Info: Shore Builders Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County 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: 40.0 psf Floor Load: N/A psf

This package includes 7 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

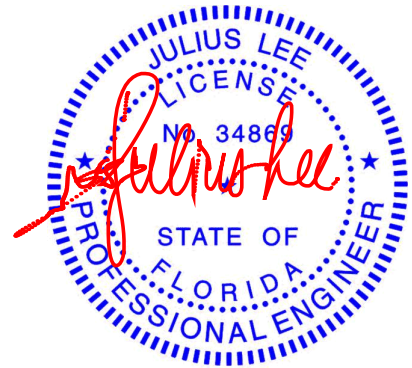
No.	Seal#	Truss Name	Date
1	T24462433	A1GE	6/24/21
2	T24462434	A2	6/24/21
3	T24462435	V01	6/24/21
4	T24462436	V02	6/24/21
5	T24462437	V03	6/24/21
6	T24462438	V04	6/24/21
7	T24462439	V05	6/24/21



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

Truss Design Engineer's Name: Lee, Julius
My license renewal date for the state of Florida is February 28, 2023.

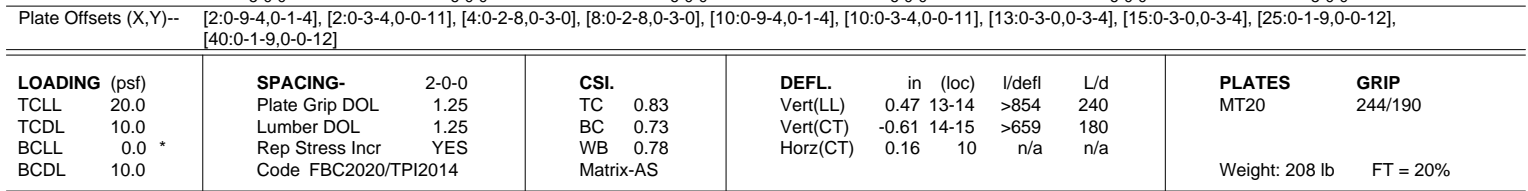
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
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Date:

June 24,2021

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jun 23 15:35:32 2021 Page 1
ID:0KAU1n0NC8wAFHvbwmxmz3OM?~bd4YdzHLU8wuxVG59qpCEP7TMLQPx9UYHY1m1vz3MHf
-2-0-0 5-0-0 11-0-0 17-0-0 23-0-0 29-0-0 34-0-0 36-0-0
2-0-0 5-0-0 6-0-0 6-0-0 6-0-0 6-0-0 5-0-0 2-0-0
Scale = 1:62.9



REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=-72(LC 10)
 Max Uplift 2=-343(LC 12), 10=-343(LC 12)
 Max Grav 2=1477(LC 1), 10=1477(LC 1)

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

TOP CHORD 2-4=-4155/3098, 4-5=-3184/2364, 5-6=-2293/1743, 6-7=-2293/1743, 7-8=-3184/2364,
 8-10=-4155/3098

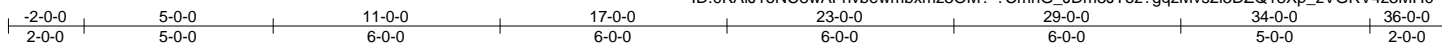
BOT CHORD 2-16=-2924/3993, 15-16=-2910/3986, 14-15=-2114/2953, 13-14=-2126/2953,
 12-13=-2922/3986, 10-12=-2936/3993

WEBS 6-14=-965/1067, 7-14=-958/733, 7-13=-445/447, 8-13=-1046/800, 5-14=-958/733,
 5-15=-445/447, 4-15=-1046/800

Job	Truss	Truss Type	Qty	Ply	Alesi Porch Add	T24462434
ALESI_PORCH_ADD	A2	Common	7	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jun 23 15:35:35 2021 Page 1
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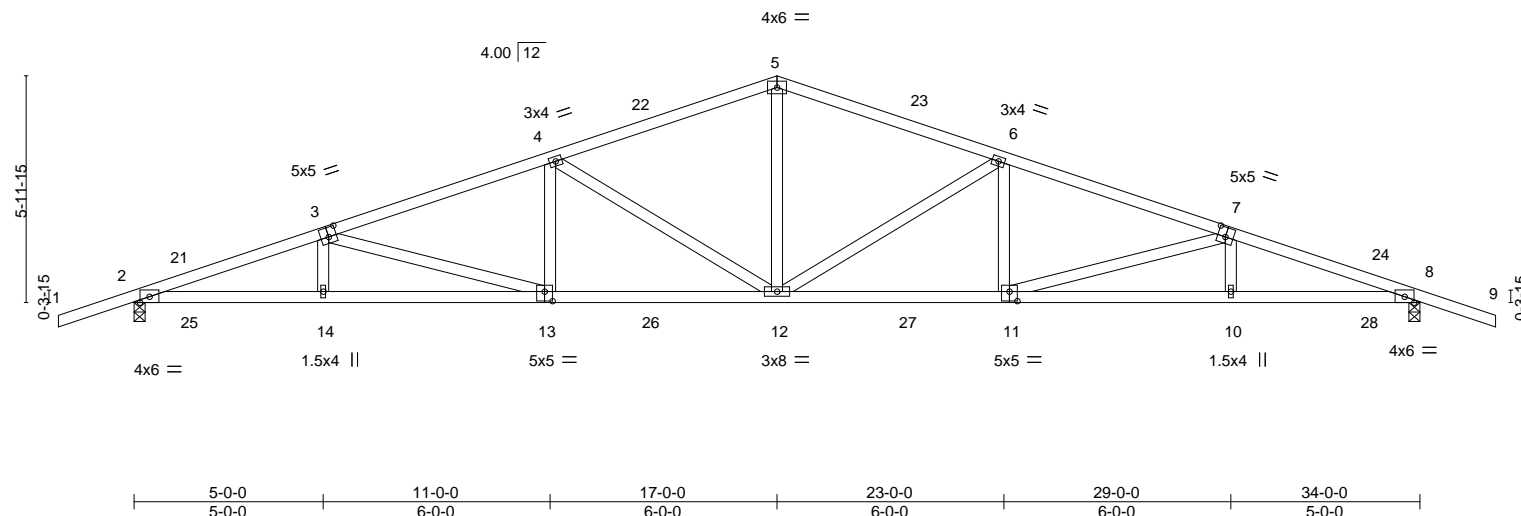


Plate Offsets (X,Y)--		[3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 10.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2020/TPI2014
CSI.	DEFL.	in (loc) l/defl L/d
TC 0.47	Vert(LL) 0.40	11-12 >999 240
BC 0.80	Vert(CT) -0.52	12-13 >784 180
WB 0.74	Horz(CT) 0.17	8 n/a n/a
Matrix-AS		
PLATES	GRIP	
MT20	244/190	
Weight: 170 lb		FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=-76(LC 10)
Max Uplift 2=-342(LC 12), 8=-342(LC 12)
Max Grav 2=1480(LC 1), 8=1480(LC 1)

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

TOP CHORD 2-3=-3596/2653, 3-4=-2984/2217, 4-5=-2212/1686, 5-6=-2212/1686, 6-7=-2984/2217,
7-8=-3596/2653
BOT CHORD 2-14=-2455/3375, 13-14=-2444/3370, 12-13=-1972/2772, 11-12=-1983/2772,
10-11=-2455/3370, 8-10=-2466/3375
WEBS 5-12=-935/1024, 6-12=-872/659, 6-11=-389/389, 7-11=-624/476, 4-12=-872/659,
4-13=-389/389, 3-13=-624/476

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-4-13, Interior(1) 1-4-13 to 17-0-0, Exterior(2R) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 36-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; 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 342 lb uplift at joint 2 and 342 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

June 24,2021

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

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

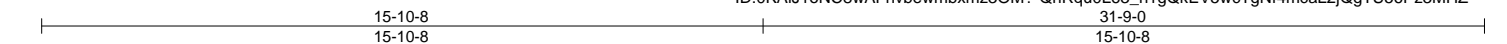


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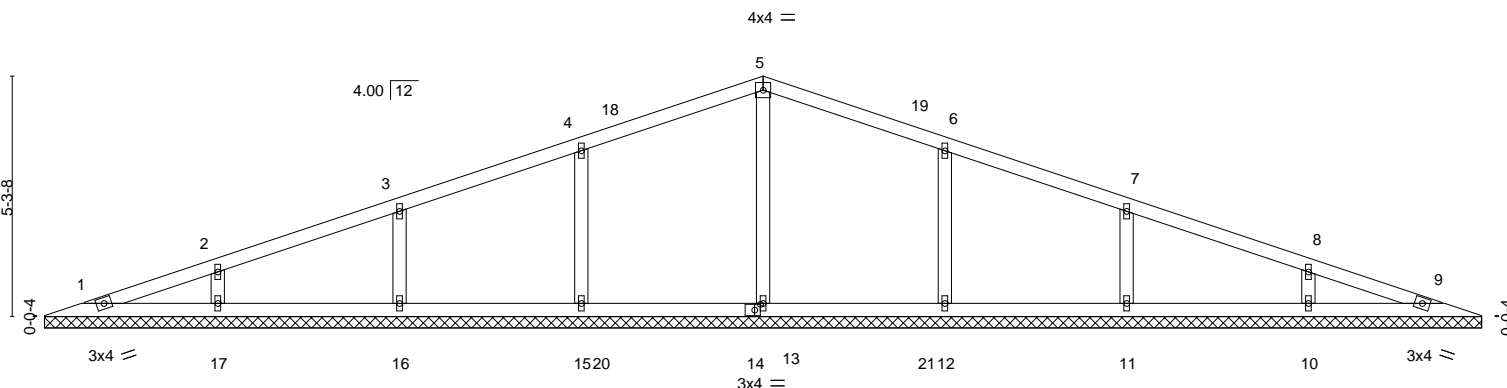
Job	Truss	Truss Type	Qty	Ply	Alesi Porch Add	T24462435
ALESI_PORCH_ADD	V01	Valley	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jun 23 15:35:38 2021 Page 1
ID:0KAIJ1oNC8wAFhbwmbxmz3OM?-QnRqu0L63_h1gQkEV5wcTgNf4mcaL2jQgTU56Pz3MHZ



Scale = 1:50.7



0-0-12	31-9-0
0-0-12	31-8-4

Plate Offsets (X,Y)-- [14:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.09	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code FBC2020/TPI2014						Weight: 119 lb	FT = 20%

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

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 31-7-8.
(lb) - Max Horz 1=57(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15, 16, 17, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 13=381(LC 17), 15=389(LC 17), 16=349(LC 17), 17=341(LC 17), 12=389(LC 18), 11=349(LC 18), 10=341(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-15=-260/103, 6-12=-260/103

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-11-5 to 3-10-8, Interior(1) 3-10-8 to 15-10-8, Exterior(2R) 15-10-8 to 19-0-7, Interior(1) 19-0-7 to 30-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16, 17, 12, 11, 10.



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Date:

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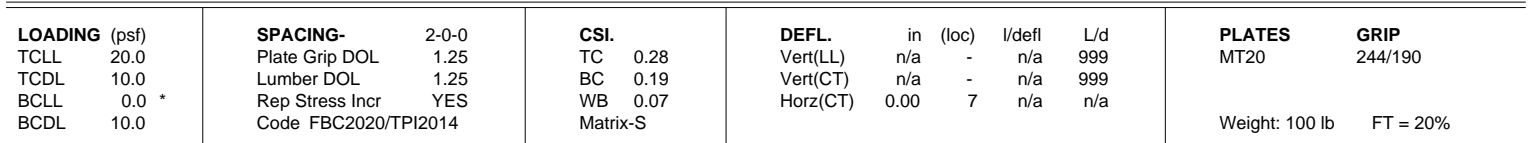
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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Tampa, FL 36610

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jun 23 15:35:40 2021 Page 1
ID:0KAJ1oNC8wAFhvbebmxbmz3OM?-MAZaJiNMbcxlvktdWY4Z5S21aHmpyWj7nzCBH3Z3MHX
13-10-8 27-9-0
13-10-8 13-10-8
Scale = 1:44.3



REACTIONS. All bearings 27-7-8.
(lb) - Max Horz 1=-47(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 12, 13, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=304(LC 1), 12=308(LC 21), 13=417(LC 1),
9=308(LC 22), 8=417(LC 1)

NOTES-



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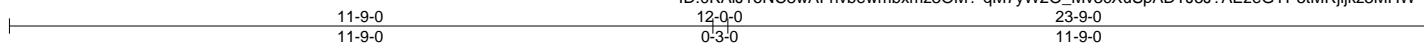


Job	Truss	Truss Type	Qty	Ply	Alesi Porch Add	T24462437
ALESI_PORCH_ADD	V03	Valley	1	1	Job Reference (optional)	

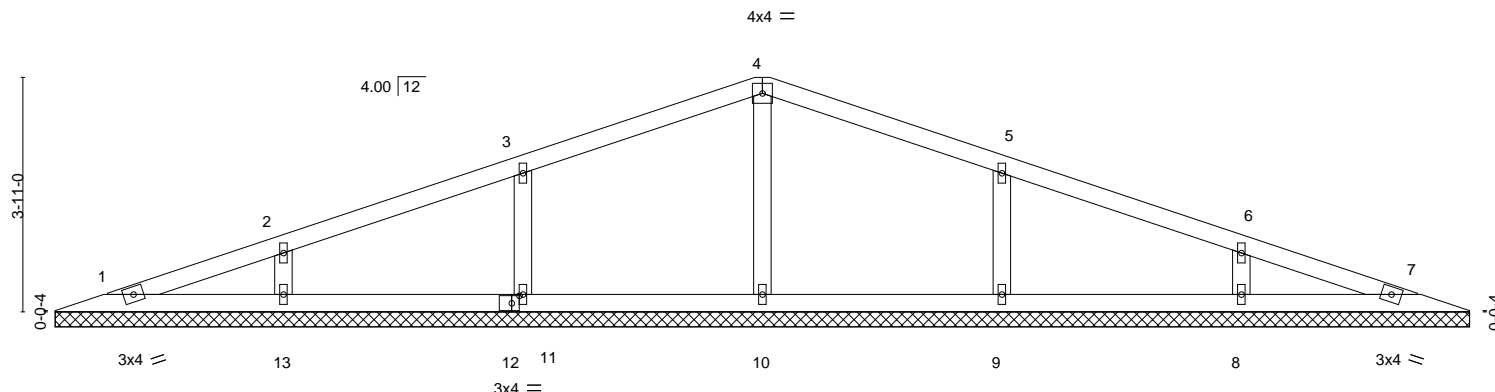
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jun 23 15:35:41 2021 Page 1

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Scale = 1:38.5



0-0-12
0-0-12

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 83 lb	FT = 20%

LUMBER-

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

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 23-7-8.
(lb) - Max Horz 1=-39(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 11, 13, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=287(LC 1), 11=344(LC 21), 13=303(LC 1), 9=344(LC 22), 8=303(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-264/114, 5-9=-264/114

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-11-5 to 3-10-8, Interior(1) 3-10-8 to 11-10-8, Exterior(2R) 11-10-8 to 15-10-8, Interior(1) 15-10-8 to 22-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 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 100 lb uplift at joint(s) 11, 13, 9, 8.



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Date:

June 24,2021

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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 33610

Job	Truss	Truss Type	Qty	Ply	Alesi Porch Add	T24462438
ALESI_PORCH_ADD	V04	Valley	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:0KAIJ1oNC8wAFhvwmbxmxz3OM?-IYhKkOPc7DBT8210kx_YeWXLIN_WHsc0a5SIFAz3MHV

12-0-0 19-9-0 7-9-0

Scale: 3/8"=1'

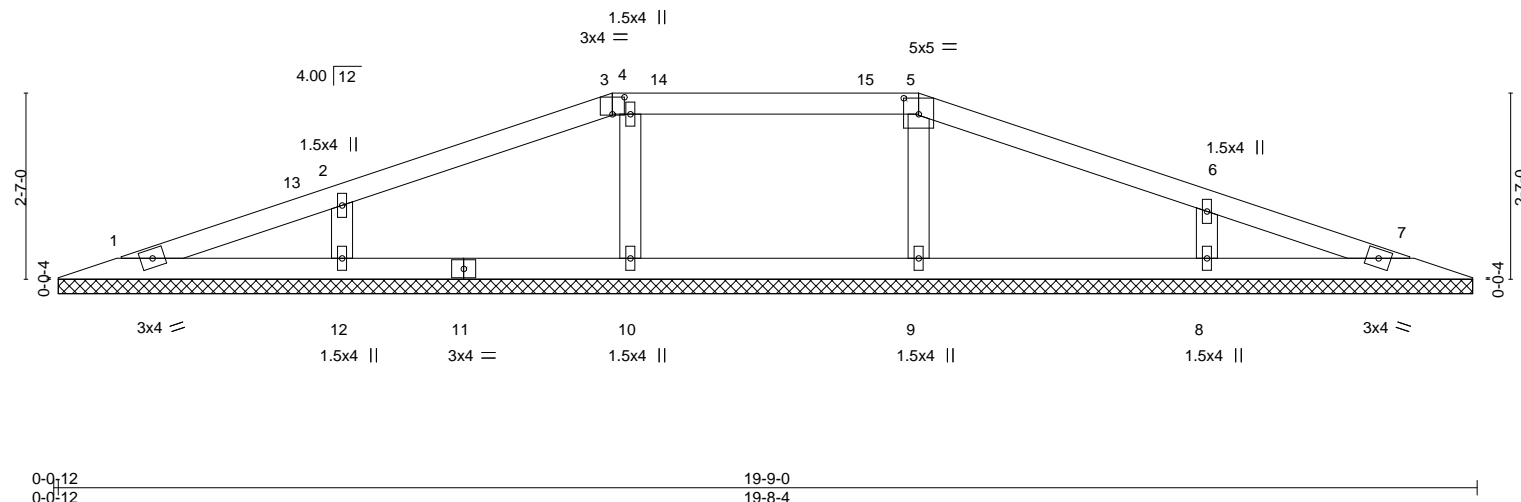


Plate Offsets (X,Y)-- [3:0-2-0,0-2-13], [5:0-2-8,0-2-11]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a - n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a - n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00 7 n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 65 lb	FT = 20%

LUMBER-

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

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 19-7-8.
(lb) - Max Horz 1=24(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=316(LC 22), 10=331(LC 21), 12=316(LC 1), 8=317(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-252/116

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-11-5 to 4-0-0, Interior(1) 4-0-0 to 7-9-0, Exterior(2E) 7-9-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-0-0, Interior(1) 16-0-0 to 18-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 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 100 lb uplift at joint(s) 12, 8.



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Date:

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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



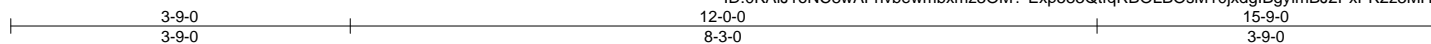
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Alesi Porch Add	T24462439
ALESI_PORCH_ADD	V05	Valley	1	1	Job Reference (optional)	

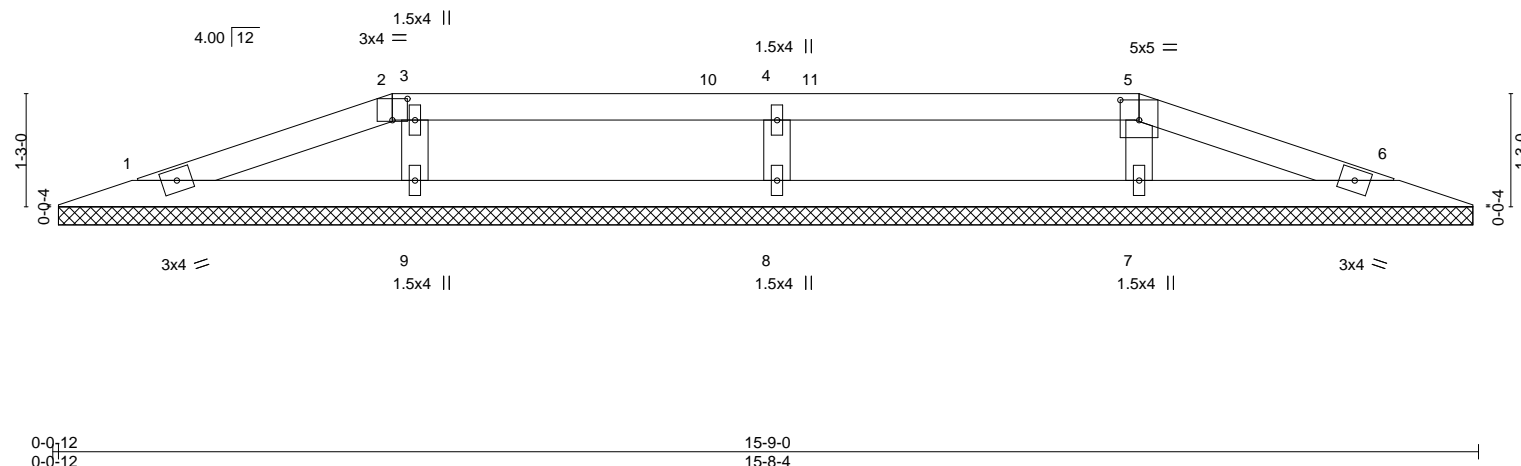
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jun 23 15:35:44 2021 Page 1

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Scale = 1:25.5



0-0.12	15-9-0
0-0.12	15-8-4
Plate Offsets (X,Y)--	[2:0-2-0,0-2-13], [5:0-2-8,0-2-11]
LOADING (psf)	SPACING- 2-0-0
TCLL 20.0	Plate Grip DOL 1.25
TCDL 10.0	Lumber DOL 1.25
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code FBC2020/TPI2014
	CSL.
	TC 0.19
	BC 0.11
	WB 0.03
	Matrix-S
	DEFL.
	in (loc) l/defl L/d
	Vert(LL) n/a - n/a 999
	Vert(CT) n/a - n/a 999
	Horz(CT) 0.00 6 n/a n/a
	PLATES GRIP
	MT20 244/190
	Weight: 47 lb FT = 20%

LUMBER-

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

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.

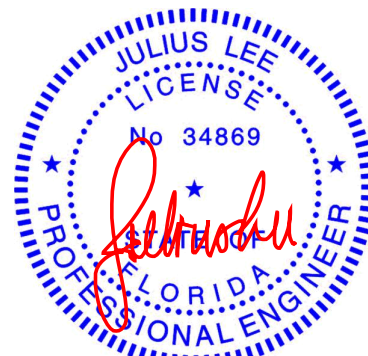
All bearings 15-7-8.
(lb) - Max Horz 1=10(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 7=281(LC 22), 8=352(LC 22), 9=301(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-8=271/115

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-11-5 to 3-9-0, Exterior(2R) 3-9-0 to 8-0-0, Interior(1) 8-0-0 to 12-0-0, Exterior(2E) 12-0-0 to 14-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 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 100 lb uplift at joint(s) 1, 6, 8.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 24,2021

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

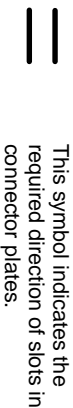
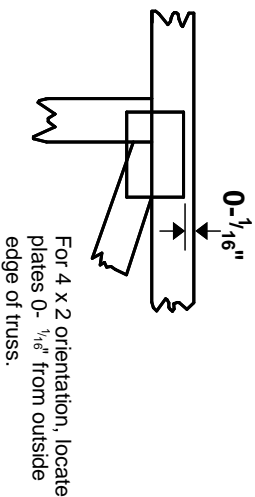
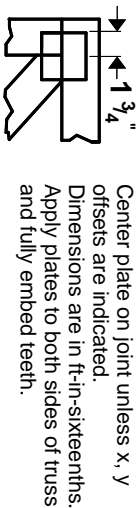
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Symbols

PLATE LOCATION AND ORIENTATION



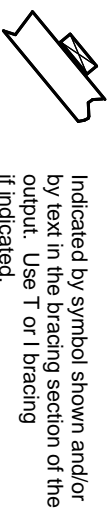
* Plate location details available in **MiTek 20/20** software or upon request.

PLATE SIZE

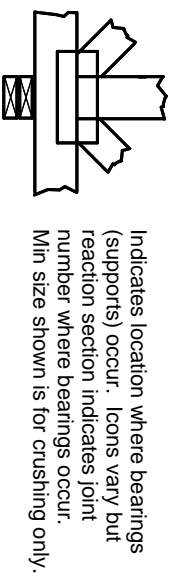
4 X 4

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

LATERAL BRACING LOCATION



BEARING

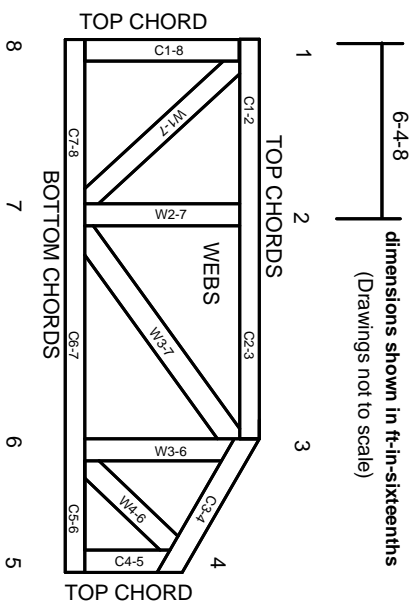


Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89: 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: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.