

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24031276 BCTH-37

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I64319452 thru I64319457

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



March 20,2024

Gilbert, Eric

**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.

Job Truss Truss Type Qty Ply BCTH-37 164319452 24031276 V1GE Valley Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:19 2024 Page 1 ID:H2zpl0AR6jHNSycZatkdl9zatAq-2R9Hm93YvUYm9UC2uk1tYL5plN\_PVZiFVPODCmzZbsl 1-8-11 1-8-11 1-8-11 Scale = 1:10.0 4x4 2 10.00 12 3 2x4 // 2x4 || 2x4 💉 1-8-11 1-8-11 1-8-11 LOADING (psf) **PLATES** SPACING-2-0-0 CSI. DEFL. in I/defl I/d GRIP (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.02 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.01 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2015/TPI2014 Matrix-P Weight: 12 lb FT = 20% BCDL 10.0

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins.

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

REACTIONS. (size) 1=3-5-7, 3=3-5-7, 4=3-5-7

Max Horz 1=20(LC 13)

Max Uplift 1=-7(LC 14), 3=-7(LC 14)

Max Grav 1=61(LC 2), 3=61(LC 2), 4=90(LC 2)

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

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply BCTH-37 164319453 24031276 B2 MONOPITCH 3 Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:19 2024 Page 1 ID:H2zpl0AR6jHNSycZatkdl9zatAq-2R9Hm93YvUYm9UC2uk1tYL5oPNzNVZtFVPODCmzZbsl

Structural wood sheathing directly applied or 2-10-8 oc purlins,

except end verticals.

1-6-0 oc bracing.

-1-0-0 2-10-8 2-10-8 1-0-0

Scale: 3/4"=1"

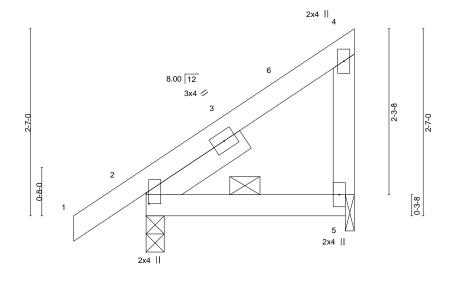


Plate Offsets (X,Y)-- [2:0-1-13,0-0-7]

LOADING (psf) TCLL (roof) 20.0	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
- ( )	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00 2-5 >999 240	MT20 244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.01 2-5 >999 180	
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 5 n/a n/a	
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-P	,	Weight: 17 lb FT = 20%
BCDL 10.0				

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No 3 WFBS

SLIDER Left 2x4 SP No.3 1-6-13

REACTIONS.

(size) 2=0-3-0, 5=0-1-8 Max Horz 2=69(LC 11)

Max Uplift 2=-27(LC 14), 5=-16(LC 11) Max Grav 2=180(LC 2), 5=104(LC 24)

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

## NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-12 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
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.





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Job Truss Truss Type Qty Ply BCTH-37 164319454 24031276 B1GE MONOPITCH STRUCTURAL 2 Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:18 2024 Page 1 ID:H2zpl0AR6jHNSycZatkdl9zatAq-aEbvZp2v8AQvXKdsK1We08Ydfzd8m7d6GleggKzZbsJ

-1-0-0 2-10-8 2-10-8 1-0-0

2x4 || 4 8.00 12 3x4 / 3 0-8-0 0-3-8 5 2x4 || 2x4 ||

BOT CHORD

Plate Offsets (X,Y)--[2:0-1-13,0-0-7] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.11 Vert(LL) -0.00 2-5 >999 240 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.08 Vert(CT) -0.01 2-5 >999 180

TCDL 10.0 WB Rep Stress Incr YES 0.00 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2015/TPI2014 Matrix-P BCDL 10.0

ł

244/190

Structural wood sheathing directly applied or 2-10-8 oc purlins,

except end verticals.

1-6-0 oc bracing.

Weight: 17 lb FT = 20%

GRIP

Scale: 3/4"=1"

LUMBER-BRACING-TOP CHORD

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

2x4 SP No 3

SLIDER Left 2x4 SP No.3 1-6-13

REACTIONS. (size) 2=0-3-0, 5=0-1-8 Max Horz 2=69(LC 11)

Max Uplift 2=-27(LC 14), 5=-16(LC 11) Max Grav 2=180(LC 2), 5=104(LC 24)

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

## NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-12 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



March 20,2024



Job Truss Truss Type Qty Ply BCTH-37 164319455 24031276 COMMON A3 Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:18 2024 Page 1

4x4 =

ID:H2zpl0AR6jHNSycZatkdl9zatAq-aEbvZp2v8AQvXKdsK1We08YQ3zRVmvp6GleggKzZbsJ 3-10-1 3-10-1 8-10-4 17-0-0 30-0-15 34-0-0 3-11-1 23-9-13 6-9-13 5-0-3 8-1-12

Scale = 1:74.5

Structural wood sheathing directly applied or 2-2-14 oc purlins,

8-16, 8-20

ORTH CAR

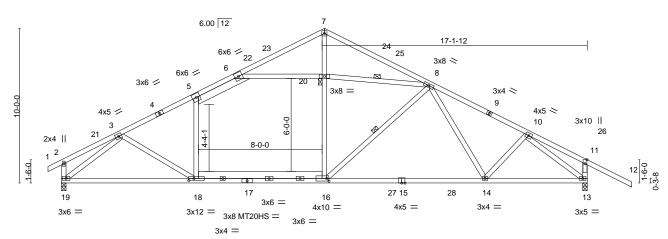
036322

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

except end verticals.

1 Brace at Jt(s): 20

1 Row at midpt



	8-10-4	17-0-0	27-4-10	34-0-0
	8-10-4	8-1-12	10-4-10	6-7-6
Plate Offsets (X,Y)	[16:0-1-12,0-2-0], [18:0-4-0,0-1-8]			

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.92 BC 0.89 WB 0.95	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.23 14-16         >999         240           Vert(CT)         -0.46 18-19         >889         180           Horz(CT)         0.08         13         n/a         n/a	PLATES GRIP MT20 244/190 MT20HS 187/143
	Code IRC2015/TPI2014	Matrix-S		Weight: 235 lb FT = 20%
BCDL 10.0				1

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

JOINTS

LUMBER-TOP CHORD 2x4 SP No 1 \*Except\*

> 1-4.9-12: 2x4 SP No.2 2x4 SP No.2 \*Except\*

**BOT CHORD** 16-18: 2x6 SP No.1, 15-17: 2x4 SP DSS

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

7-16,5-18,6-20: 2x4 SP No.2, 5-6: 2x6 SP No.1

REACTIONS. (size) 13=0-3-8, 19=0-3-8

Max Horz 19=-187(LC 14)

Max Grav 13=1638(LC 29), 19=1602(LC 28)

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

TOP CHORD 3-5=-2169/0, 5-6=-1958/0, 6-7=-873/0, 7-8=-878/0, 8-10=-2018/0, 11-13=-289/169

BOT CHORD 18-19=0/1796, 16-18=0/1947, 14-16=0/1750, 13-14=0/1543

WEBS 16-20=0/564, 7-20=-28/543, 8-16=-197/427, 10-14=0/332, 10-13=-2068/0, 5-18=0/298,

6-20=-1389/33, 8-20=-1387/33, 3-18=0/262, 3-19=-2088/0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0, Exterior(2) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 36-10-8 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
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-2=-51, 2-5=-51, 5-6=-61, 6-7=-51, 7-11=-51, 11-12=-51, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10

March 20.2024



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Job	Truss	Truss Type	Qty	Ply	BCTH-37	
24031276	A3	COMMON	7	1		164319455
24031270	7.5	CONTINUO	'		Job Reference (optional)	

The Building Center,

Gastonia, NC - 28052,

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:18 2024 Page 2 ID:H2zpl0AR6jHNSycZatkdl9zatAq-aEbvZp2v8AQvXKdsK1We08YQ3zRVmvp6GleggKzZbsJ

### LOAD CASE(S) Standard

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-6=-70, 6-7=-60, 7-11=-60, 11-12=-60, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10

3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-50, 2-5=-50, 5-6=-60, 6-7=-50, 7-11=-50, 11-12=-50, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10

4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-43, 2-5=-43, 5-6=-53, 6-7=-43, 7-11=-43, 11-12=-43, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10

5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-43, 2-5=-43, 5-6=-53, 6-22=-43, 7-22=-65, 7-11=-27, 11-12=-27, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10

6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-27, 2-5=-27, 5-6=-37, 6-7=-27, 7-25=-63, 11-25=-43, 11-12=-43, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-20, 11-12=-20, 18-19=-40, 16-18=-60, 13-16=-40, 6-20=-10

8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=46, 2-21=24, 5-21=14, 5-6=4, 6-7=14, 7-24=24, 11-24=14, 11-12=9, 18-19=-12, 16-18=-32, 13-16=-12, 6-20=-10 Horz: 1-2=-58, 2-21=-36, 7-21=-26, 7-24=36, 11-24=26, 11-12=21, 2-19=14, 11-13=26

9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=9, 2-5=14, 5-6=4, 6-23=14, 7-23=24, 7-26=14, 11-26=24, 11-12=46, 18-19=-12, 16-18=-32, 13-16=-12, 6-20=-10 Horz: 1-2=-21, 2-23=-26, 7-23=-36, 7-26=26, 11-26=36, 11-12=58, 2-19=-26, 11-13=-14

10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-33, 5-6=-43, 6-7=-33, 7-11=-33, 11-12=-28, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10

Horz: 1-2=-8, 2-7=13, 7-11=-13, 11-12=-8, 2-19=-17, 11-13=-24 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-28, 2-5=-33, 5-6=-43, 6-7=-33, 7-11=-33, 11-12=-12, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10

Horz: 1-2=8, 2-7=13, 7-11=-13, 11-12=8, 2-19=24, 11-13=17

12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=12, 2-5=-0, 5-6=-10, 6-7=-0, 7-11=5, 11-12=1, 18-19=-12, 16-18=-32, 13-16=-12, 6-20=-10 Horz: 1-2=-24, 2-7=-12, 7-11=17, 11-12=13, 2-19=13, 11-13=15

13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=1, 2-5=5, 5-6=-5, 6-7=5, 7-11=-0, 11-12=12, 18-19=-12, 16-18=-32, 13-16=-12, 6-20=-10

Horz: 1-2=-13, 2-7=-17, 7-11=12, 11-12=24, 2-19=-15, 11-13=-13 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-23, 2-5=-27, 5-6=-37, 6-7=-27, 7-11=-12, 11-12=-7, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10 Horz: 1-2=3, 2-7=7, 7-11=8, 11-12=13, 2-19=22, 11-13=6

15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-7, 2-5=-12, 5-6=-22, 6-7=-12, 7-11=-27, 11-12=-23, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10 Horz: 1-2=-13, 2-7=-8, 7-11=-7, 11-12=-3, 2-19=-6, 11-13=-22

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=25, 2-5=13, 5-6=3, 6-7=13, 7-11=13, 11-12=25, 18-19=-12, 16-18=-32, 13-16=-12, 6-20=-10 Horz: 1-2=-37, 2-7=-25, 7-11=25, 11-12=37, 2-19=-19, 11-13=19

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=16, 2-5=4, 5-6=-6, 6-7=4, 7-11=4, 11-12=16, 18-19=-12, 16-18=-32, 13-16=-12, 6-20=-10 Horz: 1-2=-28, 2-7=-16, 7-11=16, 11-12=28, 2-19=-19, 11-13=19

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=-16, 2-5=-21, 5-6=-31, 6-7=-21, 7-11=-21, 11-12=-16, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10 Horz: 1-2=-4, 2-7=1, 7-11=-1, 11-12=4, 2-19=-10, 11-13=10

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=-16, 2-5=-21, 5-6=-31, 6-7=-21, 7-11=-21, 11-12=-16, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10 Horz: 1-2=-4, 2-7=1, 7-11=-1, 11-12=4, 2-19=-10, 11-13=10

20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-20, 11-12=-51, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-51, 5-6=-61, 6-22=-51, 7-22=-80, 7-11=-29, 11-12=-29, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-29, 2-5=-29, 5-6=-39, 6-7=-29, 7-25=-77, 11-25=-51, 11-12=-51, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	BCTH-37	104040455
24031276	A3	COMMON	7	1		164319455
					Job Reference (optional)	

The Building Center,

Gastonia, NC - 28052.

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:18 2024 Page 3 ID:H2zpl0AR6jHNSycZatkdl9zatAq-aEbvZp2v8AQvXKdsK1We08YQ3zRVmvp6GleggKzZbsJ

### LOAD CASE(S) Standard

23) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-20, 11-12=-20, 18-19=-20, 16-18=-80, 16-27=-20, 27-28=-60, 13-28=-20, 6-20=-10

24) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-45, 2-5=-49, 5-6=-59, 6-7=-49, 7-11=-37, 11-12=-34, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=2, 2-7=6, 7-11=6, 11-12=10, 2-19=16, 11-13=5

25) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-37, 5-6=-47, 6-7=-37, 7-11=-49, 11-12=-45, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-19=-5, 11-13=-16

26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-44, 5-6=-54, 6-7=-44, 7-11=-44, 11-12=-40, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8

27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-44, 5-6=-54, 6-7=-44, 7-11=-44, 11-12=-40, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8

28) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-52, 2-5=-56, 5-6=-66, 6-7=-56, 7-11=-44, 11-12=-40, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=2, 2-7=6, 7-11=6, 11-12=10, 2-19=16, 11-13=5

29) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-44, 5-6=-54, 6-7=-44, 7-11=-56, 11-12=-52, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-19=-5, 11-13=-16

30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-47, 2-5=-51, 5-6=-61, 6-7=-51, 7-11=-51, 11-12=-47, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8

31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-47, 2-5=-51, 5-6=-61, 6-7=-51, 7-11=-51, 11-12=-47, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-6=-70, 6-7=-60, 7-11=-20, 11-12=-20, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-60, 11-12=-60, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10

34) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-50, 2-5=-50, 5-6=-60, 6-7=-50, 7-11=-20, 11-12=-20, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10

35) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-50, 11-12=-50, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10



Job Truss Truss Type Qty Ply BCTH-37 164319456 24031276 A2 COMMON 2 Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:17 2024 Page 1 ID:H2zpl0AR6jHNSycZatkdl9zatAq-621XLU1HNsl2wA2gmJ?PTw?I\_Z5w1Try25v68uzZbsK 17-0-0 23-9-13 30-0-15 34-0-0 36-10-8 -0-10-8 0-10-8 3-11-1 6-3-2 6-9-13 6-9-13 6-3-2 2-10-8 Scale = 1:65.5 4x5 = 6 6.00 12 23 4x5 / 4x5 < 3x8 || 9 24 3x8 II 10 16 26 27 14 28 15 4x5 = 4x5 = 3x8 =

	6-7-6 6-7-6		<del> </del>		17-0-0 10-4-10			27-4-10 10-4-10					34-0-0 6-7-6		
LOADING (psf) TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	20.0	Lumbe Rep St	Frip DOL	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri	0.75 0.85 0.87 ix-S		DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.26 -0.50 0.08	13-15	I/defI >999 >811 n/a	L/d 240 180 n/a		PLATES MT20 Weight: 203 lb	<b>GRIP</b> 244/190 FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 \*Except\* **BOT CHORD** 14-16: 2x4 SP No.1

WFBS 2x4 SP No.3

REACTIONS. (size) 18=0-3-8, 12=0-3-8

Max Horz 18=-187(LC 14)

Max Uplift 18=-33(LC 16), 12=-88(LC 16) Max Grav 18=1402(LC 2), 12=1537(LC 2)

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

TOP CHORD 3-5=-1822/133, 5-6=-1432/173, 6-7=-1432/163, 7-9=-1785/114, 10-12=-279/172

**BOT CHORD** 17-18=-1/1550, 15-17=0/1609, 13-15=0/1508, 12-13=0/1373

WFBS 6-15=-21/885, 7-15=-472/119, 9-13=0/274, 5-15=-491/123, 3-18=-1805/71,

9-12=-1872/88

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0, Exterior(2) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 36-10-8 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
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 3x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12.



Structural wood sheathing directly applied or 3-2-15 oc purlins,

7-15. 5-15

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

except end verticals.

1 Row at midpt

March 20,2024

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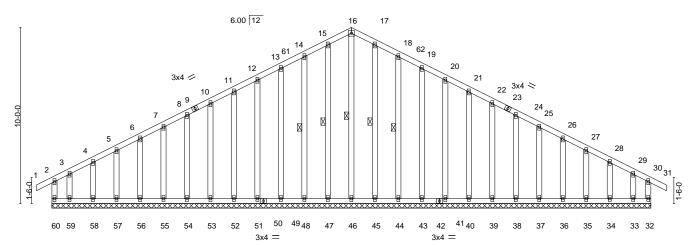
Job Truss Truss Type Qty Ply BCTH-37 164319457 24031276 A1GE COMMON SUPPORTED GAB 2 Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:16 2024 Page 1 ID:H2zpl0AR6jHNSycZatkdl9zatAq-esU9880fcZABI1TTDcUAxjTGIAyWICYppR9ZbSzZbsL 34-0-0 34-10-8 0-10-8

17-0-0

Scale = 1:65.4 4x4 =



34-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl I/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.17 Vert(LL) -0.00 31 n/r 120 MT20 244/190 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.09 Vert(CT) -0.00 31 n/r 120 TCDL 10.0 WB Rep Stress Incr YES 0.10 Horz(CT) -0.00 32 n/a n/a **BCLL** 0.0 Code IRC2015/TPI2014 Matrix-R Weight: 310 lb FT = 20%BCDL 10.0

WFBS

1 Row at midpt

34-0-0

LUMBER-**BRACING-**

17-0-0

17-0-0

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

REACTIONS. All bearings 34-0-0.

2x4 SP No.3

(lb) -Max Horz 60=-175(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except 60=-135(LC 14), 59=-136(LC 15)

All reactions 250 lb or less at joint(s) 60, 32, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, Max Grav 45, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33

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

TOP CHORD 12-13=-85/272, 13-14=-95/299, 14-15=-106/330, 15-16=-109/341, 16-17=-109/336,

17-18=-106/325, 18-19=-95/293, 19-20=-85/266

## NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-4-0, Exterior(2) 2-4-0 to 17-0-0, Corner(3) 17-0-0 to 20-4-13, Exterior(2) 20-4-13 to 34-10-8 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 1-4-0 oc.
- 11) 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except (jt=lb) 60=135, 59=136.



16-46, 15-47, 14-48, 17-45, 18-44

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## Symbols

## PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

₹

connector plates. required direction of slots in This symbol indicates the

\* Plate location details available in MiTek software or upon request

## PLATE SIZE

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

## LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

## **BEARING**



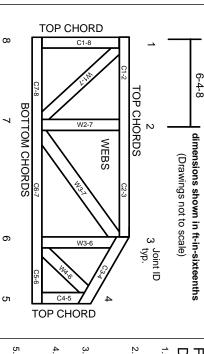
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

## ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

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

## 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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

## Design General Notes

truss unless otherwise shown Trusses are designed for wind loads in the plane of the

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

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## MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# General Safety Notes

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

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

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.