

Trenco 818 Soundside Rd Edenton, NC 27932

Re: MF2001017-1-A

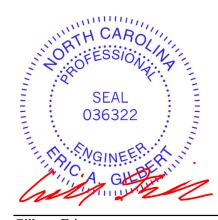
Greater Light Baptist-Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: E14900927 thru E14900931

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



September 24,2020

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.

Qty Job Truss Truss Type Ply Greater Light Baptist-Roof E14900928 MF2001017-1-A S01-RP1 23 Scissor Job Reference (optional) Run: 8.42 E. Sep 14 2020 Print: 8.420 E. Sep 14 2020 MiTek Industries. Inc. Thu Sep 24 10:40:58 Carter Components (Sanford), Sanford, NC - 27332. Page: 1 ID:J?tvdTNimCHyFPtUW_Jv5ayhYGR-nAwy9tl1ahiqAleht97gKSaVuZf5Fa9V9nfW67yaSg4 51-4-0 12-7-12 18-9-14 6-5-10 31-2-2 37-4-4 43-6-6 50-0-0 1-4-0 1-4-0 6-5-10 6-2-2 6-2-2 6-2-2 6-2-2 6-2-2 6-2-2 6-5-10 5x6 II 7 REPAIR: TRUSS MEMBER(S) BROKEN 4x5 ۽ 4x5 **≥** 24 25 12 5 Γ 6 R 4x5 -4x5 × 4x6 × 4x6 5 11-11-0 10 5x8 = 5x8 👟 3 11 18 4-8-0 8x10 6x8 II 6x8 II 19 3-0-0 17 20 16 12 **_**12.5 12 13 6x8 4x5 ≈ 9 21 15 **BREAK** 6x8 = 14 4x5 = 4x5 ≥ ğ 6x8 : 6x8 = APPLY 2 X 6 X 14' SPF/DF/SP NO.2 SCAB(S) TO EACH FACE OF TRUSS AS SHOWN ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 4" O.C. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 2" O.C SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE 50-0-0 8-6-5 16-9-3 33-2-13 49-6-8 25-0-0 41-5-11 0-5-8 8-0-13 8-2-13 8-2-13 8-2-13 8-2-13 8-0-13 0-5-8 Scale = 1:89.3 Plate Offsets (X, Y): [2:0-4-0,0-2-12], [3:0-4-0,0-2-4], [11:0-4-0,0-2-4], [12:0-4-0,0-2-12], [14:0-4-0,0-4-0], [22:0-4-0,0-4-0] 2-0-0 CSI DEFL in I/defI L/d **PLATES** GRIP Loading (psf) Spacing (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.48 18 >999 240 MT20 244/190 Snow (Pf/Pg) 13.9/20.0 Lumber DOL 1.15 BC 0.99 Vert(CT) -0.98 18-19 >606 180 TCDL Rep Stress Incr WB 10.0 YES 0.84 Horz(CT) 0.65 n/a **BCLL** 0.0 IRC2018/TPI2014 Matrix-MSH Code Weight: 363 lb BCDL 10.0 FT = 20%LUMBER BRACING TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc

2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 purlins, except end verticals

2x4 SP No.2 *Except* 22-2,14-12:2x6 SP No.2 **BOT CHORD** WEBS Rigid ceiling directly applied or 2-2-0 oc bracing **WEBS** 2 Rows at 1/3 pts 3-22, 11-14

REACTIONS (size) 14=0-5-8, 22=0-5-8

Max Horiz 22=103 (LC 15)

Max Grav 14=2075 (LC 2), 22=2075 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/45, 2-3=-755/115, 3-5=-5033/409, 5-6=-5193/432, 6-7=-4294/388, TOP CHORD

7-8=-4294/382, 8-9=-5193/434, 9-11=-5033/404, 11-12=-755/115, 12-13=0/45,

2-22=-626/184. 12-14=-626/184

21-22=-299/4354, 19-21=-282/5040, 18-19=-200/4689, 17-18=-212/4689, BOT CHORD

15-17=-294/5040, 14-15=-309/4354

7-18=-152/2877, 8-18=-870/179, 8-17=0/490, 9-17=-314/128, 9-15=-460/67, WEBS 11-15=0/475, 6-18=-870/179, 6-19=0/490, 5-19=-314/121, 5-21=-460/65,

3-21=0/475, 3-22=-4280/304, 11-14=-4280/308

NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-4-0 to 3-8-0, Interior (1) 3-8-0 to 25-0-0, Exterior(2R) 25-0-0 to 30-0-0, Interior (1) 30-0-0 to 51-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE~7-16; Pr=20.0~psf~(roof~LL:~Lum~DOL=1.15~Plate~DOL=1.15); Pg=20.0~psf; Pf=13.9~psf~(Lum~DOL=1.15~Plate~DOL=1.15); Pg=20.0~psf; Pf=13.9~psf~(Lum~DOL=1.15~Plate~DOL=1.15~Plate~DOL=1.15); Pg=20.0~psf; Pf=13.9~psf~(Lum~DOL=1.15~Plate~DOL=1.15~Plate~DOL=1.15); Pg=20.0~psf; Pf=13.9~psf~(Lum~DOL=1.15~Plate~DDOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 2.00 times flat roof load of 13.9 psf on overhangs nonconcurrent with other live loads.
- All plates are 4x5 MT20 unless otherwise indicated. 6)
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 22, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 24,2020



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



818 Soundside Road

Edenton, NC 27932

Qty Job Truss Truss Type Ply Greater Light Baptist-Roof E14900929 MF2001017-1-A S01-RP2 23 Scissor Job Reference (optional) Run: 8.42 E. Sep 14 2020 Print: 8.420 E. Sep 14 2020 MiTek Industries, Inc. Thu Sep 24 10:41:14 Carter Components (Sanford), Sanford, NC - 27332. Page: 1 ID:J?tvdTNimCHyFPtUW_Jv5ayhYGR-nSRNjhyhavrQjvRyMEwfW2nObQS4kGM03wHuBeyaSfp 6-5-10 12-7-12 18-9-14 31-2-2 37-4-4 43-6-6 50-0-0 6-5-10 6-2-2 6-2-2 6-2-2 6-2-2 6-2-2 6-2-2 6-5-10 5x6 II REPAIR: TRUSS MEMBER(S) BROKEN. 7 4x5 = 4x5 🌫 24 25 512 51 6 R 4x5 -4x5 > 4x6 = 5 9 4x6 × 4 10 5x8 : 5x8 👟 3 8x10 6x8 6x8 II 20 19 4x5 = ¹⁷ 16 12 _12.5 12 4x5 ≥ 13 6x8 = 21 15 6x8 = 4x5 = 4x5 = BREAK 6x8 : 6x8 = APPLY 2 X 6 X 10' SPF/DF/SP NO.2 SCAB(S) TO EACH FACE OF TRUSS CENTERED ON DAMAGE/SPLICE. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3"S - 1 ROW, 2 x 4"S - 2 ROWS, 2 x 6"S AND LARGER - 3 ROWS: SPACED @ 4" O.C. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 2" O.C SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE. 50-0-0 8-6-5 16-9-3 25-0-0 49-6-8 33-2-13 41-5-11 0-5-8 0-5-8 8-0-13 8-2-13 8-2-13 8-2-13 8-2-13 8-0-13 Scale = 1:89.3 Plate Offsets (X, Y): [2:0-4-0,0-2-12], [3:0-4-0,0-2-4], [11:0-4-0,0-2-4], [12:0-4-0,0-2-12], [14:0-4-0,0-4-0], [22:0-4-0,0-4-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.48	18	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.98	18-19	>606	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.65	14	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 363 lb	FT = 20%

WEBS

LUMBER BRACING

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

purlins, except end verticals. 2x4 SP No.2 *Except* 22-2,14-12:2x6 SP No.2 **BOT CHORD** WEBS Rigid ceiling directly applied or 2-2-0 oc bracing

REACTIONS (size) 14=0-5-8, 22=0-5-8

Max Horiz 22=103 (LC 15)

Max Grav 14=2075 (LC 2), 22=2075 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-755/115, 3-5=-5033/409, 5-6=-5193/432, 6-7=-4294/388,

7-8=-4294/382, 8-9=-5193/434, 9-11=-5033/404, 11-12=-755/115, 12-13=0/45,

2-22=-626/184. 12-14=-626/184

BOT CHORD 21-22=-299/4354, 19-21=-282/5040, 18-19=-200/4689, 17-18=-212/4689,

15-17=-294/5040, 14-15=-309/4354

7-18=-152/2877, 8-18=-870/179, 8-17=0/490, 9-17=-314/128, 9-15=-460/67, WEBS

11-15=0/475, 6-18=-870/179, 6-19=0/490, 5-19=-314/121, 5-21=-460/65,

3-21=0/475, 3-22=-4280/304, 11-14=-4280/308

NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-4-0 to 3-8-0, Interior (1) 3-8-0 to 25-0-0, Exterior(2R) 25-0-0 to 30-0-0, Interior (1) 30-0-0 to 51-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE~7-16; Pr=20.0~psf~(roof~LL:~Lum~DOL=1.15~Plate~DOL=1.15); Pg=20.0~psf; Pf=13.9~psf~(Lum~DOL=1.15~Plate~DOL=1.15); Pg=20.0~psf; Pf=13.9~psf~(Lum~DOL=1.15~Plate~DOL=1.15~Plate~DOL=1.15); Pg=20.0~psf; Pf=13.9~psf~(Lum~DOL=1.15~Plate~DOL=1.15~Plate~DOL=1.15); Pg=20.0~psf; Pf=13.9~psf~(Lum~DOL=1.15~Plate~DDOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 2.00 times flat roof load of 13.9 psf on overhangs nonconcurrent with other live loads.
- All plates are 4x5 MT20 unless otherwise indicated.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 22, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 2-9-14 oc

3-22, 11-14

2 Rows at 1/3 pts

September 24,2020



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



818 Soundside Road Edenton, NC 27932

Qty Job Truss Truss Type Ply Greater Light Baptist-Roof E14900931 MF2001017-1-A S02-REP 10 Scissor Job Reference (optional) Carter Components (Sanford), Sanford, NC - 27332, Run: 8.42 E Sep 14 2020 Print: 8.420 E Sep 14 2020 MiTek Industries. Inc. Thu Sep 24 10:51:44 Page: 1 ID:6KkvFaM?qnH2mDhmwejb3TyhYCb-KeWYx6atCUD1lkc2GXDO2us3eNTYLB_kxxuEl7yaSVz 51-4-0 12-7-12 31-2-2 37-4-4 6-5-10 18-9-14 25-0-0 43-6-6 50-0-0 6-5-10 6-2-2 6-2-2 6-2-2 6-2-2 6-2-2 6-2-2 6-5-10 1-4-0 5x6 ı 6 LUMBER AND CONNECTOR PLATES (SHOWN DASHED) TO BE REPAIR: REMOVE SECTION OF CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED. TRUSS SHOWN DASHED. 4x5 = 4x5 **≥** 23 24 ₅12 5 4x5 4x5 **≈** 4x6 ≤ 4x6 ≥ 8 11-11-0 3 9 16"x24" ^{5x8} = 5x8 -2 10 17 8x10 i 6x8 II 19 18 16 ₁₅ 11 6x8 -4x5 = 20 14 4x5 = 6x8 = 4x5 -4x5 2.5 L 12 6x8 = 6x8 = ATTACH 3/4" PLYWOOD OR OSB GUSSET (23/32" RATED SHEATHING 48/24 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE 50-0-0 16-9-3 8-6-5 25-0-0 15-7-3 33-2-13 41-5-11 49-6-8 Scale = 1:92.8 8-0-13 7-0-14 8-2-13 8-2-13 8-2-13 8-0-13 Plate Offsets (X, Y): [1:0-3-10,Edge], [10:0-4-0,0-2-4], [11:0-4-0,0-2-12], [13:0-4-0,0-4-0], [21:0-1-7,0-4-0] 2-0-0 CSI DEFL in I/defI L/d **PLATES** GRIP Loading (psf) Spacing (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.48 17 >999 240 MT20 244/190 Snow (Pf/Pg) 13.9/20.0 Lumber DOL 1.15 BC 0.98 Vert(CT) -0.97 16-17 >612 180

LUMBER BRACING

YES

2x6 SP No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc

IRC2018/TPI2014

BOT CHORD 2x6 SP No.2 purlins, except end verticals.

0.87

Horz(CT)

0.60

13

n/a

Weight: 359 lb

FT = 20%

2x4 SP No.2 *Except* 21-1,13-11:2x6 SP No.2 **BOT CHORD** WEBS Rigid ceiling directly applied or 2-2-0 oc bracing **WEBS** 2 Rows at 1/3 pts 2-21, 10-13

Matrix-MSH

WB

REACTIONS (size) 1=0-5-8, 13=0-5-8 Max Horiz 1=-112 (LC 16)

10.0

0.0

10.0

Max Grav 1=1973 (LC 2), 13=2068 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-536/122, 2-4=-4921/436, 4-5=-5133/443, 5-6=-4262/395, 6-7=-4262/381,

7-8=-5163/440, 8-10=-5009/408, 10-11=-752/115, 11-12=0/45, 1-21=-65/1524,

11-13=-625/184

BOT CHORD 20-21=-324/4248, 18-20=-287/4960, 17-18=-200/4641, 16-17=-218/4660,

Rep Stress Incr

Code

14-16=-299/5014, 13-14=-313/4335

6-17=-157/2853, 7-17=-872/178, 7-16=0/491, 8-16=-316/127, 8-14=-455/68, WEBS

10-14=0/471, 5-17=-854/179, 5-18=0/470, 4-18=-289/122, 4-20=-501/64,

2-20=0/464, 2-21=-4388/330, 10-13=-4261/312

NOTES

TCDL

BCLL

BCDL

- Unbalanced roof live loads have been considered for this design. 1)
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-8 to 5-5-8, Interior (1) 5-5-8 to 25-0-0, Exterior(2R) 25-0-0 to 30-0-0, Interior (1) 30-0-0 to 51-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- $TCLL: ASCE\ 7-16;\ Pr=20.0\ psf\ (roof\ LL:\ Lum\ DOL=1.15\ Plate\ DOL=1.15);\ Pg=20.0\ psf;\ Pf=13.9\ psf\ (Lum\ DOL=1.15\ Plate\ DOL=1.15);\ Pg=20.0\ psf\ (Lum\ DOL=1.15);\ Pg=20.0$ DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 2.00 times flat roof load of 13.9 psf on overhangs nonconcurrent with other live loads.
- All plates are 4x5 MT20 unless otherwise indicated. 6)
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



September 24,2020

MARNING - 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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



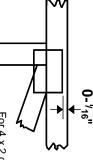
818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

?

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

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

PLATE SIZE



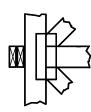
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



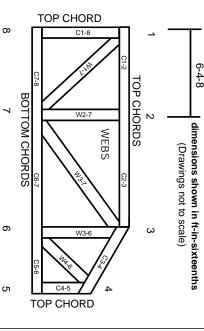
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

© 2012 MiTek® All Rights Reserved



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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Damage or Personal Injury

 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 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
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

ი ი

Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

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